

1.0 APPENDIX A Curl Examples

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1.0 APPENDIX A Curl Examples

These examples require that you have populated a Collage database with the attached script for Postgres and that Postgres is already installed.

SQL database to be restored: Tar-ball of database backup

Restore script: restore.sh

The curl examples assume that you are running JBoss with Apache on port 80, and the Collage Restful Services are deployed to a web application with the context name of 'foundation-webapp'

Appendix A: Contents

1.1 Host Examples with Curl

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1.1.1 Retrieve a Single Host

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/hosts/localhost
```

Results: XML - JSON

1.1.2 Retrieve Hosts by Query with Depth Simple (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/hosts?query=property.ExecutionTime+between+5+and+3500&depth=simple"
```

Results: XML - JSON

1.1.3 Store Two Hosts

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postHost.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hosts
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postHost.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/hosts
```

Post Data Example: XML - JSON

1.1.4 Delete Hosts

1. delete a single host

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hosts/localhost
```

2. delete 2 hosts

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hosts/localhost,malbec
```

1.1.5 Host Autocomplete Using JSON

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/hosts/autocomplete/localhost
```

JSON Results:

```
{
  "names" : [ "localhost", "localhost2" ]
}
```

1.2 Host Group Examples with Curl

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1.2.1 Retrieve a Single Host Group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/hostgroups/Support
```

Results: XML - JSON

1.2.2 Retrieve Host Groups Depth Deep (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/hostgroups?depth=deep&query=hosts.hostName+%3D+%27localhost%27"
```

Results: XML - JSON

1.2.3 Store Host Group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postHostGroup.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hostgroups
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postHost.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/hostgroups
```

Post Data Example: XML - JSON

1.2.4 Delete Host Groups

1. delete a single host group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hostgroups/Support
```

2. delete 2 host group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/hostgroups/Support,HG1
```

1.2.5 Host Group Autocomplete Using XML

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/hostgroups/autocomplete/hg
```

XML Results:

```
<names>
  <name>HG1</name>
  <name>HG2</name>
</names>
```

1.3 Services Examples with Curl

(toc)

1.3.1 Retrieve A Single Service

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/services/service-109?hostName=localhost
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/services/service-109?hostName=localhost
```

Results: XML - JSON

1.3.2 Retrieve Services by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/services?query=%28property.ExecutionTime+%3E+1000+and+monitorStatus%21%3D+%27UP%27%29"
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/api/services?query=%28property.ExecutionTime+%3E+1000+and+monitorStatus%21%3D+%27UP%27%29"
```

Results: XML - JSON

1.3.3 Store Services

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postService.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/services
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postService.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/services
```

Post Data Example: XML - JSON

1.3.4 Delete Service

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/services/service-109,service-110?hostName=localhost
```

1.3.5 Service Autocomplete Using JSON

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/services/autocomplete/local_cpu
```

JSON Results:

```
{
  "names" : [ "local_cpu_httpd", "local_cpu_java" ]
}
```

1.4 Events Examples with Curl

(toc)

1.4.1 Retrieve Events by Event Id List

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/events/4,5
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/events/4,5
```

Results: XML - JSON

1.4.2 Retrieve Events by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/events?query=category+%3D+%27SG1%27"
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/events?query=device+%3D+%27172.28.113.156%27+and+severity+%3D+%27CRITICAL%27"
```

Results: XML - JSON

1.4.3 Store Events

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postEvent.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/events
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postEvent.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/events
```

Post Data Example: XML - JSON

1.4.4 Update Event

```
curl -X PUT -d@./putEvents.xml -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/events
```

Post Data Example: XML - JSON

1.4.5 Update Event Op Status

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X PUT -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/events/50,51,52?opStatus=NOTIFIED
```

1.4.6 Delete Events

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/events/50,51
```

1.5 Devices Examples with Curl

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1.5.1 Retrieve A Single Device

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/devices/127.0.0.1
```

1. with depth = deep

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/devices/127.0.0.1?depth=deep
```

Results: XML - JSON

1.5.2 Retrieve Devices by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/devices?query=identification+like+%27172.28.113%25%27
```

Results: XML - JSON

1.5.3 Store Devices

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postDevice.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/devices
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./postDevice.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/devices
```

Post Data Example: XML - JSON

1.5.4 Delete Devices

1. delete a single device

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/devices/127.0.0.1
```

2. delete 2 devices

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/devices/127.0.0.1,172.28.128.100
```

1.6 Statistics Examples with Curl

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1.6.1 Retrieve Total Statistics

1. query for total statistics by hosts

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/totals/hosts
```

2. query for total statistics by services

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/services
```

1.6.2 Retrieve Host Statistics

1. query for statistics for the two given host names

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/hosts/demo,malbec
```

1.6.3 Retrieve Host Group Statistics

1. query all host group statistics group by host group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/hostgroups
```

2. query host group statistics filtered by one or more host groups names comma separated, group by host group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/hostgroups/Linux+Servers,Engineering
```

1.6.4 Retrieve Service Statistics

1. query all service statistics group by host group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/services
```

2. query service statistics filtered by one or more host names comma separated, group by hosts

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/services/hosts/localhost,support-xp-1
```

3. query service statistics filtered by one or more host group names comma separated, group by host groups

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/services/hostgroups/Linux+Servers,Engineering
```

4. query all service statistics group by service group

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/services/servicegroups
```

5. query service statistics filtered by one or more service group names comma separated, group by service groups

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/services/servicegroups/SG1,web-svr
```

6. query host availability by a single host group name

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/availability/hosts?hostGroup=HG1
```

7. query service availability by a single host group name

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/availability/services?hostGroup=HG1
```

8. query service availability by a single service group name

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" http://localhost/api/statistics/availability/services?serviceGroup=SG1
```

1.7 Category Examples with Curl

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1.7.1 Retrieve A Single Category

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP?depth=full"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP?depth=full"
```

Results:

```
{
  "id" : 63,
  "name" : "TEST-2",
  "entityTypeName" : "SERVICE_GROUP",
  "childNames" : [ "TEST-B" ],
  "root" : true
}
```

```

{
  "id" : 63,
  "name" : "TEST-2",
  "entityTypeName" : "SERVICE_GROUP",
  "childNames" : [ "TEST-B" ],
  "root" : true,
  "applicationType" : {
    "properties" : {
    }
  },
  "entityType" : {
    "id" : 23,
    "name" : "SERVICE_GROUP",
    "description" : "com.groundwork.collage.model.impl.ServiceGroup",
    "applicationTypeSupported" : false,
    "logicalEntity" : true
  },
  "children" : [ {
    "id" : 65,
    "name" : "TEST-B",
    "entityTypeName" : "SERVICE_GROUP",
    "parentNames" : [ "TEST-2", "TEST-A" ],
    "root" : false,
    "applicationType" : {
      "properties" : {
      }
    },
    "entityType" : {
      "id" : 23,
      "name" : "SERVICE_GROUP",
      "description" : "com.groundwork.collage.model.impl.ServiceGroup",
      "applicationTypeSupported" : false,
      "logicalEntity" : true
    },
    "parents" : [ {
      "id" : 63,
      "name" : "TEST-2",
      "entityTypeName" : "SERVICE_GROUP",
      "childNames" : [ "TEST-B" ],
      "root" : true
    }, {
      "id" : 64,
      "name" : "TEST-A",
      "entityTypeName" : "SERVICE_GROUP",
      "childNames" : [ "TEST-B" ],
      "root" : true
    } ],
    "entities" : [ {
      "id" : 31,
      "objectID" : 1024,
      "entityTypeId" : 2,
      "entityTypeName" : "SERVICE_STATUS"
    } ]
  } ]
}

```

```

<category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
  <childNames>
    <childName>TEST-B</childName>
  </childNames>
</category>

```

```

<category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
  <childNames>
    <childName>TEST-B</childName>
  </childNames>
  <applicationType/>
  <entityType id="23" name="SERVICE_GROUP" description=
"com.groundwork.collage.model.impl.ServiceGroup" isLogicalEntity="true" applicationTypeSupported="
false"/>
  <children>
    <category id="69" name="TEST-B" entityTypeName="SERVICE_GROUP" root="false">
      <parentNames>
        <parentName>TEST-A</parentName>
        <parentName>TEST-2</parentName>
      </parentNames>
      <applicationType/>
      <entityType id="23" name="SERVICE_GROUP" description=
"com.groundwork.collage.model.impl.ServiceGroup" isLogicalEntity="true" applicationTypeSupported="
false"/>
      <parents>
        <category id="68" name="TEST-A" entityTypeName="SERVICE_GROUP" root="true">
          <childNames>
            <childName>TEST-B</childName>
          </childNames>
        </category>
        <category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
          <childNames>
            <childName>TEST-B</childName>
          </childNames>
        </category>
      </parents>
      <entities>
        <entity id="32" objectID="1024" entityTypeId="2" entityTypeName="SERVICE_STATUS"/>
      </entities>
    </category>
  </children>
</category>

```

1.7.2 Retrieve All Categories

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP"
```

Results:


```

{
  "categories" : [ {
    "id" : 62,
    "name" : "TEST-1",
    "entityTypeName" : "SERVICE_GROUP",
    "root" : true
  }, {
    "id" : 63,
    "name" : "TEST-2",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  }, {
    "id" : 64,
    "name" : "TEST-A",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  }, {
    "id" : 65,
    "name" : "TEST-B",
    "entityTypeName" : "SERVICE_GROUP",
    "parentNames" : [ "TEST-A", "TEST-2" ],
    "root" : false
  } ]
}

```

```

<categories>
  <category id="66" name="TEST-1" entityTypeName="SERVICE_GROUP" root="true"/>
  <category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
  <category id="68" name="TEST-A" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
  <category id="69" name="TEST-B" entityTypeName="SERVICE_GROUP" root="false">
    <parentNames>
      <parentName>TEST-2</parentName>
      <parentName>TEST-A</parentName>
    </parentNames>
  </category>
</categories>

```

1.7.3 Retrieve Root Categories

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP&roots=true"

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP&roots=true"

```

Results:

```

{
  "categories" : [ {
    "id" : 62,
    "name" : "TEST-1",
    "entityTypeName" : "SERVICE_GROUP",
    "root" : true
  }, {
    "id" : 63,
    "name" : "TEST-2",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  }, {
    "id" : 64,
    "name" : "TEST-A",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  } ]
}

```

```

<categories>
  <category id="66" name="TEST-1" entityTypeName="SERVICE_GROUP" root="true"/>
  <category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
  <category id="68" name="TEST-A" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
</categories>

```

1.7.4 Retrieve Hierarchy Categories

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/categories?name=TEST-A&entityTypeName=SERVICE_GROUP"

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/categories?name=TEST-A&entityTypeName=SERVICE_GROUP"

```

Results:

```

{
  "categories" : [ {
    "id" : 64,
    "name" : "TEST-A",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  }, {
    "id" : 65,
    "name" : "TEST-B",
    "entityTypeName" : "SERVICE_GROUP",
    "parentNames" : [ "TEST-A", "TEST-2" ],
    "root" : false
  } ]
}

```

```

<categories>
  <category id="68" name="TEST-A" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
  <category id="69" name="TEST-B" entityTypeName="SERVICE_GROUP" root="false">
    <parentNames>
      <parentName>TEST-A</parentName>
      <parentName>TEST-2</parentName>
    </parentNames>
  </category>
</categories>

```

1.7.5 Retrieve Entity Root Categories

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP&entityObjectId=1024&ent

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/categories?entityTypeName=SERVICE_GROUP&entityObjectId=1024&ent

```

Results:

```

{
  "categories" : [ {
    "id" : 63,
    "name" : "TEST-2",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  }, {
    "id" : 64,
    "name" : "TEST-A",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  } ]
}

```

```

<categories>
  <category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
  <category id="68" name="TEST-A" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
</categories>

```

1.7.6 Retrieve Categories by Query (encoded)

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/categories?query=entityType.name%20%3D%20'SERVICE_GROUP'%20and%

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/categories?query=entityType.name%20%3D%20'SERVICE_GROUP'%20and%

```

Results:

```
{
  "categories" : [ {
    "id" : 62,
    "name" : "TEST-1",
    "entityTypeName" : "SERVICE_GROUP",
    "root" : true
  }, {
    "id" : 63,
    "name" : "TEST-2",
    "entityTypeName" : "SERVICE_GROUP",
    "childNames" : [ "TEST-B" ],
    "root" : true
  } ]
}
```

```
<categories>
  <category id="66" name="TEST-1" entityTypeName="SERVICE_GROUP" root="true"/>
  <category id="67" name="TEST-2" entityTypeName="SERVICE_GROUP" root="true">
    <childNames>
      <childName>TEST-B</childName>
    </childNames>
  </category>
</categories>
```

1.7.7 Store Categories

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"categories": [{"name": "TEST-1", "entityTypeName": "SERVICE_GROUP"}, {"name": "TEST-2",
"entityTypeName": "SERVICE_GROUP"}]}' -H "Content-Type: application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"categories": [{"name": "TEST-B", "entityTypeName": "SERVICE_GROUP", "entities": [{"objectID": 1024,
"entityTypeName": "SERVICE_STATUS"}]}]}' -H "Content-Type: application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<categories><category name="TEST-1" entityTypeName="SERVICE_GROUP"></category><category name="TEST-2"
entityTypeName="SERVICE_GROUP"></category></categories>' -H "Content-Type: application/xml" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<categories><category name="TEST-B" entityTypeName="SERVICE_GROUP"><entities><entity objectID="1024"
entityTypeName="SERVICE_STATUS"/></entities></category></categories>' -H "Content-Type: application/xml" -H
"Accept: application/xml" "http://localhost:8080/foundation-webapp/api/categories"
```

Results:

```
{
  "successful" : 2,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Update",
  "warning" : 0,
  "count" : 2,
  "results" : [ {
    "entity" : "TEST-1:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-1/SERVICE_GROUP"
  }, {
    "entity" : "TEST-2:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP"
  } ]
}
```

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Update",
  "warning" : 0,
  "count" : 1,
  "results" : [ {
    "entity" : "TEST-B:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP"
  } ]
}
```

```
<results successful="2" failed="0" entityType="Category" operation="Update" warning="0" count="2">
  <result>
    <entity>TEST-1:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-1/SERVICE_GROUP</location>
    <status>success</status>
  </result>
  <result>
    <entity>TEST-2:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-2/SERVICE_GROUP</location>
    <status>success</status>
  </result>
</results>
```

```
<results successful="1" failed="0" entityType="Category" operation="Update" warning="0" count="1">
  <result>
    <entity>TEST-B:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP</location>
    <status>success</status>
  </result>
</results>
```

1.7.8 Modify Hierarchical Categories

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"categoryUpdates": [{"entityTypeName": "SERVICE_GROUP", "categoryName": "TEST-A", "create":
"AS_ROOT"}, {"entityTypeName": "SERVICE_GROUP", "categoryName": "TEST-B", "create": "AS_CHILD",
"parentName": "TEST-A"}, {"entityTypeName": "SERVICE_GROUP", "categoryName": "TEST-B", "modify":
"ADD_CHILD", "otherCategoryNames": [ "TEST-2" ]}]}' -H "Content-Type: application/json" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"categoryUpdates": [{"entityTypeName": "SERVICE_GROUP", "categoryName": "TEST-A", "delete":
"CASCADE"}, {"entityTypeName": "SERVICE_GROUP", "categoryName": "TEST-2", "delete": "CASCADE_ALL"}]}' -H
"Content-Type: application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'<categoryUpdates><categoryUpdate entityType="SERVICE_GROUP" categoryName="TEST-A"
create="AS_ROOT"/><categoryUpdate entityType="SERVICE_GROUP" categoryName="TEST-B" create="AS_CHILD"
parentName="TEST-A"/><categoryUpdate entityType="SERVICE_GROUP" categoryName="TEST-B"
modify="ADD_CHILD"><otherCategoryNames><categoryName>TEST-2</categoryName></otherCategoryNames></categoryUpd
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/categories"
```

```
curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'<categoryUpdates><categoryUpdate entityType="SERVICE_GROUP" categoryName="TEST-A"
delete="CASCADE"/><categoryUpdate entityType="SERVICE_GROUP" categoryName="TEST-2"
delete="CASCADE_ALL"/></categoryUpdates>' -H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/categories"
```

Results:

```

{
  "successful" : 3,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Update",
  "warning" : 0,
  "count" : 3,
  "results" : [ {
    "entity" : "TEST-A:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-A/SERVICE_GROUP"
  }, {
    "entity" : "TEST-B:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP"
  }, {
    "entity" : "TEST-B:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP"
  } ]
}

```

```

{
  "successful" : 2,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Update",
  "warning" : 0,
  "count" : 2,
  "results" : [ {
    "entity" : "TEST-A:SERVICE_GROUP",
    "status" : "success",
    "message" : "Category deleted, (CASCADE).",
  }, {
    "entity" : "TEST-2:SERVICE_GROUP",
    "status" : "success",
    "message" : "Category deleted, (CASCADE_ALL).",
  } ]
}

```

```

<results successful="3" failed="0" entityType="Category" operation="Update" warning="0" count="3">
  <result>
    <entity>TEST-A:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-A/SERVICE_GROUP</location>
  </result>
  <result>
    <entity>TEST-B:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP</location>
  </result>
  <result>
    <entity>TEST-B:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP</location>
  </result>
</results>

```

```

<results successful="2" failed="0" entityType="Category" operation="Update" warning="0" count="2">
  <result>
    <entity>TEST-A:SERVICE_GROUP</entity>
    <message>Category deleted, (CASCADE).</message>
    <status>success</status>
  </result>
  <result>
    <entity>TEST-2:SERVICE_GROUP</entity>
    <message>Category deleted, (CASCADE_ALL).</message>
    <status>success</status>
  </result>
</results>

```

1.7.9 Add/Delete Category Members

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"name" : "TEST-B", "entityTypeName" : "SERVICE_GROUP", "entities" : [{"objectID" : 2048, "entityTypeName"
: "SERVICE_STATUS"}]}' -H "Content-Type: application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/categories/addmembers"

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'<category name="TEST-B" entityTypeName="SERVICE_GROUP"><entities><entity objectID="2048"
entityTypeName="SERVICE_STATUS"/></entities></category>' -H "Content-Type: application/xml" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/categories/deletemembers"

```

Results:

```

{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "TEST-B:SERVICE_GROUP",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP"
  } ],
  "count" : 1
}

```

```

<results successful="1" failed="0" entityType="Category" operation="Update" warning="0" count="1">
  <result>
    <entity>TEST-B:SERVICE_GROUP</entity>
    <location>http://localhost:8080/foundation-webapp/api/categories/TEST-B/SERVICE_GROUP</location>
  <status>success</status>
</result>
</results>

```

1.7.10 Delete Categories

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'{"categories": [{"name" : "TEST-1", "entityTypeName" : "SERVICE_GROUP"}]}' -H "Content-Type:
application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/categories"

```

```

curl -s -H "GWOS-API-TOKEN:2d4c9e96-981e-4dcf-ac98-1a6871e17a80" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'<categories><category name="TEST-1" entityTypeName="SERVICE_GROUP"></category></categories>' -H
"Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/categories"

```

Results:

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "Category",
  "operation" : "Delete",
  "warning" : 0,
  "count" : 1,
  "results" : [ {
    "entity" : "TEST-1:SERVICE_GROUP",
    "status" : "success",
    "message" : "Category deleted."
  } ]
}
```

```
<results successful="1" failed="0" entityType="Category" operation="Delete" warning="0" count="1">
  <result>
    <entity>TEST-1:SERVICE_GROUP</entity>
    <message>Category deleted.</message>
    <status>success</status>
  </result>
</results>
```

1.8 Metadata Examples with Curl

(toc)

1.8.1 Retrieve WADL file

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub"
http://localhost/api/meta/wadl
```

Results: XML (WADL)

1.8.2 Retrieve XSD file

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub"
http://localhost/api/meta/xsd
```

Results: XSD

1.9 Property Type Examples with Curl

(toc)

1.9.1 Retrieve A Single Property Type

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" http://localhost/api/propertytypes/ExecutionTime
```

Results: XML - JSON

1.9.2 Retrieve Property Type by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/api/propertytypes?query=name+like+%27SYS%25%27"
```

Results: XML - JSON

1.9.3 Store Property Types

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
@./postPropertyType.json -H "Accept: application/json" --header "Content-Type: application/json"
http://localhost/api/propertytypes
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
```



```
@./postPropertyType.xml -H "Accept: application/xml" --header "Content-Type: application/xml"
http://localhost/api/propertytypes
```

Post Data Example: XML - JSON

1.9.4 Delete Property Type

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept:
application/xml" --header "Content-Type: application/xml" http://localhost/api/propertytypes/name
```

1.10 Application Type Examples with Curl

(toc)

1.10.1 Retrieve A Single Application Type

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" http://localhost/api/applicationtypes/NAGIOS
```

Results: XML - JSON

1.10.2 Retrieve Application Type by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/api/applicationtypes?query=name+like+%27RRD%25%27"
```

Results: XML - JSON

1.10.3 Add Application Types

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
@./postAppType.json -H "Accept: application/json" --header "Content-Type: application/json"
http://localhost/api/applicationtypes
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
@./postAppType.xml -H "Accept: application/xml" --header "Content-Type: application/xml"
http://localhost/api/applicationtypes
```

Post Data Example: XML - JSON

1.10.4 Delete Application Type

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept:
application/xml" --header "Content-Type: application/xml" http://localhost/api/applicationtypes/name
```

1.11 Entity Type Examples with Curl

(toc)

1.11.1 Retrieve A Single Entity Type

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" http://localhost/api/entitytypes/HOST
```

Results: XML - JSON

1.11.2 Retrieve Application Type by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/api/entitytypes?query=name+like+%27C%25%27"
```

Results: XML - JSON

1.12 Consolidation Examples with Curl

(toc)

1.12.1 Retrieve A Single Consolidation Criteria

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" http://localhost/api/consolidations/SYSLOG
```

Results: [XML](#) - [JSON](#)

1.12.2 Retrieve Consolidations by Query (encoded)

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/api/consolidations?query=name+like+%27SY%25%27"
```

Results: [XML](#) - [JSON](#)

1.12.3 Store Consolidation Criteria

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./consolidations.json -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/applicationtypes
```

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d @./consolidations.xml -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/consolidations
```

Post Data Example: [XML](#) - [JSON](#)

1.12.4 Delete Consolidation Criteria

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/consolidations/name
```

1.13 Notification Examples with Curl

([toc](#))

1.13.1 Post a Host Notification

```
curl -X POST -d@./postHostNotification.xml -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/notifications/hosts
```

More Post Data Examples: [XML](#) - [JSON](#)

1.13.2 Post a Service Notification

```
curl -X POST -d@./postServiceNotification.xml -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" --header "Content-Type: application/xml" http://localhost/api/notifications/services
```

More Post Data Examples: [XML](#) - [JSON](#)

1.14 Perf Data Examples with Curl

([toc](#))

1.14.1 Post to Perf Data

```
curl -X POST -d@./postPerfData.json -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" --header "Content-Type: application/json" http://localhost/api/perfdata
```

More Post Data Examples: [XML](#) - [JSON](#)

1.14.2 Get Performance Time Series Data Using XML

```
curl -s -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/perfdata?appType=VEMA&serverName=loadtest-vm-0&serviceName=loadc
```

XML Response:

```
<perfDataTimeSeries appType="VEMA" serverName="loadtest-vm-0" serviceName="loadtest-vm-metric-0"
startTime="1443208066000" endTime="1443208366000" interval="30000">
  <perfDataTimeSeriesValue valueType="value" timestamp="1443208110000" value="36.0"/>
  <perfDataTimeSeriesValue valueType="value" timestamp="1443208170000" value="27.0"/>
  <perfDataTimeSeriesValue valueType="value" timestamp="1443208230000" value="20.0"/>
  <perfDataTimeSeriesValue valueType="value" timestamp="1443208290000" value="13.0"/>
  <perfDataTimeSeriesValue valueType="thold-c" timestamp="1443208110000" value="100.0"/>
  <perfDataTimeSeriesValue valueType="thold-c" timestamp="1443208170000" value="100.0"/>
  <perfDataTimeSeriesValue valueType="thold-c" timestamp="1443208230000" value="100.0"/>
  <perfDataTimeSeriesValue valueType="thold-c" timestamp="1443208290000" value="100.0"/>
  <perfDataTimeSeriesValue valueType="thold-w" timestamp="1443208110000" value="90.0"/>
  <perfDataTimeSeriesValue valueType="thold-w" timestamp="1443208170000" value="90.0"/>
  <perfDataTimeSeriesValue valueType="thold-w" timestamp="1443208230000" value="90.0"/>
  <perfDataTimeSeriesValue valueType="thold-w" timestamp="1443208290000" value="90.0"/>
</perfDataTimeSeries>
```

1.14.3 Get Performance Time Series Data Using JSON

```
curl -s -H "GWOS-API-TOKEN:9E72B5E688429F6A867602E6D047E09D" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/perfdata?appType=VEMA&serverName=loadtest-vm-0&serviceName=load
```

JSON Response:

```

{
  "appType" : "VEMA",
  "serverName" : "loadtest-vm-0",
  "serviceName" : "loadtest-vm-metric-0",
  "startTime" : 1443208066000,
  "endTime" : 1443208366000,
  "interval" : 30000,
  "perfDataTimeSeriesValues" : [ {
    "valueType" : "value",
    "timestamp" : 1443208110000,
    "value" : 36.0
  }, {
    "valueType" : "value",
    "timestamp" : 1443208170000,
    "value" : 27.0
  }, {
    "valueType" : "value",
    "timestamp" : 1443208230000,
    "value" : 20.0
  }, {
    "valueType" : "value",
    "timestamp" : 1443208290000,
    "value" : 13.0
  }, {
    "valueType" : "thold-c",
    "timestamp" : 1443208110000,
    "value" : 100.0
  }, {
    "valueType" : "thold-c",
    "timestamp" : 1443208170000,
    "value" : 100.0
  }, {
    "valueType" : "thold-c",
    "timestamp" : 1443208230000,
    "value" : 100.0
  }, {
    "valueType" : "thold-c",
    "timestamp" : 1443208290000,
    "value" : 100.0
  }, {
    "valueType" : "thold-w",
    "timestamp" : 1443208110000,
    "value" : 90.0
  }, {
    "valueType" : "thold-w",
    "timestamp" : 1443208170000,
    "value" : 90.0
  }, {
    "valueType" : "thold-w",
    "timestamp" : 1443208230000,
    "value" : 90.0
  }, {
    "valueType" : "thold-w",
    "timestamp" : 1443208290000,
    "value" : 90.0
  } ]
}

```

1.15 Audit Log Examples with Curl

(toc)

1.15.1 Retrieve Audit Logs for a Host Using XML

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/foundation-webapp/api/auditlogs/server_2?first=0&count=2"

```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<auditLogs>
  <auditLog auditLogId="30" subsystem="SV" hostName="server_2" action="DELETE" description="Test
deletion server 2." username="admin" timestamp="2014-09-26T14:03:24.515-0600" serviceDescription=
"network_users"/>
  <auditLog auditLogId="29" subsystem="SV" hostName="server_2" action="ADD" description="Test
addition server 2." username="admin" timestamp="2014-09-26T14:03:24.515-0600" serviceDescription=
"local_processes"/>
</auditLogs>
```

1.15.2 Retrieve Audit Logs for a Host and Service Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost/foundation-webapp/api/auditlogs/server_2/local_processes?first=0&count=1"
```

JSON Response:

```
{
  "auditLogs": [ {
    "auditLogId" : 32,
    "subsystem" : "SV",
    "hostName" : "server_2",
    "action" : "ADD",
    "description" : "Test addition server 2.",
    "username" : "admin",
    "timestamp" : "2014-09-26T14:03:25.600-0600",
    "serviceDescription" : "local_processes"
  } ]
}
```

1.15.3 Retrieve Audit Logs by Query Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost/foundation-webapp/api/auditlogs?query=hostName%20%3D%20'server_2'%20ORDER%20BY%20timestamp"
```

JSON Response:

```
{
  "auditLogs": [ {
    "auditLogId" : 33,
    "subsystem" : "SV",
    "hostName" : "server_2",
    "action" : "DELETE",
    "description" : "Test deletion server 2.",
    "username" : "admin",
    "timestamp" : "2014-09-26T14:03:25.600-0600",
    "serviceDescription" : "network_users"
  }, {
    "auditLogId" : 32,
    "subsystem" : "SV",
    "hostName" : "server_2",
    "action" : "ADD",
    "description" : "Test addition server 2.",
    "username" : "admin",
    "timestamp" : "2014-09-26T14:03:25.600-0600",
    "serviceDescription" : "local_processes"
  } ]
}
```

1.15.4 Create Audit Log Asynchronously Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '<auditLogs><auditLog subsystem="Console" hostName="server_1" action="MODIFY" description="Test modification server 1." username="admin"/></auditLogs>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost/foundation-webapp/api/auditlogs"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="1" failed="0" entityType="AuditLog Async" operation="Insert" warning="0" count="1">
  <result><entity>1411761803932</entity><message>Job 1411761803932 submitted</message><status>success</status></result>
</results>
```

1.15.5 Create Audit Logs Synchronously Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '{"auditLogs": [{"subsystem": "SV", "hostName": "server_2", "action": "ADD", "description": "Test addition server 2.", "username": "admin", "serviceDescription": "local_processes"}, {"subsystem": "SV", "hostName": "server_2", "action": "DELETE", "description": "Test deletion server 2.", "username": "admin", "serviceDescription": "network_users"}]}' -H "Content-Type: application/json" -H "Accept: application/json" "http://localhost/foundation-webapp/api/auditlogs?async=false"
```

JSON Response:

```
{
  "successful" : 2,
  "failed" : 0,
  "entityType" : "AuditLog",
  "operation" : "Insert",
  "warning" : 0,
  "results" : [ {
    "entity" :
    "com.groundwork.collage.model.impl.AuditLog@7aec81d5[auditLogId=94,subsystem=SV,hostName=server_2,action=
    addition server 2.,username=admin,timestamp=Fri Oct 24 11:40:43 MDT
    2014,serviceDescription=local_processes]",
    "status" : "success",
    "message" : "AuditLog saved"
  }, {
    "entity" :
    "com.groundwork.collage.model.impl.AuditLog@3d4005ff[auditLogId=95,subsystem=SV,hostName=server_2,action=
    deletion server 2.,username=admin,timestamp=Fri Oct 24 11:40:43 MDT
    2014,serviceDescription=network_users]",
    "status" : "success",
    "message" : "AuditLog saved"
  } ],
  "count" : 2
}
```

1.16 Host Identity Examples with Curl

(toc)

1.16.1 Retrieve Host Identity by Host Name Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/hostidentities/TEST-HOST-NAME-0"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<hostIdentity hostIdentityId="11c2d250-6437-11e4-9584-002219ed08d3" hostName="test-host-name-0" host="
false"><hostNames><hostName>test-host-name-0</hostName></hostNames></hostIdentity>
```

1.16.2 Retrieve All Host Identities Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/hostidentities?first=0&count=2"
```

JSON Response:

```
{
  "hostIdentities" : [ {
    "hostIdentityId" : "1267adf2-6437-11e4-82be-002219ed08d3",
    "hostName" : "test-host-name-0",
    "hostNames" : [ "test-host-name-0" ],
    "host" : false
  }, {
    "hostIdentityId" : "12c545e8-6437-11e4-82bf-002219ed08d3",
    "hostName" : "test-host-name-1",
    "hostNames" : [ "test-host-name-1", "test-host-name-1.0", "test-host-name-1.1" ],
    "host" : false
  } ]
}
```

1.16.3 Retrieve Host Identities by Query Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/hostidentities?query=hostName%20like%20%27test-host-name-%25%27%20OF"
```

JSON Response:

```
{
  "hostIdentities" : [ {
    "hostIdentityId" : "1267adf2-6437-11e4-82be-002219ed08d3",
    "hostName" : "test-host-name-0",
    "hostNames" : [ "test-host-name-0" ],
    "host" : false
  }, {
    "hostIdentityId" : "12c545e8-6437-11e4-82bf-002219ed08d3",
    "hostName" : "test-host-name-1",
    "hostNames" : [ "test-host-name-1", "test-host-name-1.0", "test-host-name-1.1" ],
    "host" : false
  }, {
    "hostIdentityId" : "8fb9a880-f093-4892-a0f3-b1a403b49e5e",
    "hostName" : "test-host-name-2",
    "hostNames" : [ "9e1b25a0-e036-4ce1-bf01-56c9cc8934ce", "test-host-name-2" ],
    "host" : false
  } ]
}
```

1.16.4 Create Host Identity Asynchronously Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '<hostIdentities><hostIdentity hostName="test-host-name-0"><hostNames><hostName>test-host-name-0</hostName></hostNames></hostIdentity></hostIdentities>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost/foundation-webapp/api/hostidentities?async=true"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="1" failed="0" entityType="HostIdentity Async" operation="Insert" warning="0" count="1">
  <result><entity>1415114840770</entity><message>Job 1415114840770 submitted</message><status>success</status></result>
</results>
```

1.16.5 Create Host Identities Synchronously Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"hostIdentities":[{"hostName":"test-host-name-1","hostNames":["test-host-name-1.0","test-host-name-1.1"],"t
-H "Content-Type: application/json" -H "Accept: application/json"
"http://localhost/foundation-webapp/api/hostidentities
```

JSON Response:

```
{
  "successful" : 2,
  "failed" : 0,
  "entityType" : "HostIdentity",
  "operation" : "Insert",
  "warning" : 0,
  "results" : [ {
    "entity" : "test-host-name-1",
    "status" : "success",
    "message" : "http://localhost:8080/foundation-webapp/api/hostidentities/test-host-name-1"
  }, {
    "entity" : "test-host-name-2",
    "status" : "success",
    "message" : "http://localhost:8080/foundation-webapp/api/hostidentities/test-host-name-2"
  } ],
  "count" : 2
}
```

1.16.6 Update Host Identity Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<hostIdentities><hostIdentity hostIdentityId="12042cdc-6437-11e4-9585-002219ed08d3"
hostName="test-host-name-1-changed"><hostNames><hostName>test-host-name-1-changed-alias</hostName></hostName
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost/foundation-webapp/api/hostidentities
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="1" failed="0" entityType="HostIdentity" operation="Update" warning="0" count="1">
  <result><entity>12042cdc-6437-11e4-9585-002219ed08d3</entity><message>http:
//localhost:8080/foundation-webapp/api/hostidentities/test-host-name-1-changed</message><status>success</
</results>
```

1.16.7 Clear Host Identity Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H
"Accept: application/json"
"http://localhost/foundation-webapp/api/hostidentities/test-host-name-1?clear=true"
```

JSON Response:

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "HostIdentity",
  "operation" : "Clear",
  "warning" : 0,
  "results" : [ {
    "entity" : "test-host-name-1",
    "status" : "success",
    "message" : "HostIdentity cleared"
  } ],
  "count" : 1
}
```

1.16.8 Delete Host Identities Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
```



```
'<hostIdentities><hostIdentity hostIdentityId="12042cdc-6437-11e4-9585-002219ed08d3"
hostName="test-host-name-1-changed"><hostNames><hostName>test-host-name-1</hostName><hostName>test-host-name
hostIdentityId="5d33537c-293e-4564-b0cf-d0998389b31f"
hostName="test-host-name-2"><hostNames><hostName>test-host-name-2</hostName><hostName>46eb4a5b-a08e-470b-9be
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost/foundation-webapp/api/hostidentities"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="2" failed="0" entityType="HostIdentity" operation="Delete" warning="0" count="2">
  <result><entity>12042cdc-6437-11e4-9585-002219ed08d3</entity><message>HostIdentity
deleted</message><status>success</status></result>
  <result><entity>5d33537c-293e-4564-b0cf-d0998389b31f</entity><message>HostIdentity
deleted</message><status>success</status></result>
</results>
```

1.16.9 Host Identity Autocomplete Using XML

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/foundation-webapp/api/hostidentities/autocomplete/local"
```

XML Response:

```
<names>
  <name>localhost</name>
  <name>localhost2</name>
</names>
```

1.17 Host Blacklist Examples with Curl

(toc)

1.17.1 Retrieve Host Blacklist by Host Name Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/hostblacklists/test-host-name-0"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<hostBlacklist hostBlacklistId="10" hostName="test-host-name-0"/>
```

1.17.2 Retrieve All Host Blacklists Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" "http://localhost/foundation-webapp/api/hostblacklists?first=0&count=2"
```

JSON Response:

```
{
  "hostBlacklists" : [ {
    "hostBlacklistId" : 12,
    "hostName" : "test-host-name-0"
  }, {
    "hostBlacklistId" : 13,
    "hostName" : "test-host-name-1"
  } ]
}
```

1.17.3 Retrieve Host Blacklists by Query Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
```

```
"http://localhost/foundation-webapp/api/hostblacklists?query=hostName%20like%20%27test-host-name-%25%27%20OF
```

JSON Response:

```
{
  "hostBlacklists" : [ {
    "hostBlacklistId" : 12,
    "hostName" : "test-host-name-0"
  }, {
    "hostBlacklistId" : 13,
    "hostName" : "test-host-name-1"
  }, {
    "hostBlacklistId" : 14,
    "hostName" : "test-host-name-2"
  } ]
}
```

1.17.4 Create Host Blacklist Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<hostBlacklists><hostBlacklist hostName="test-host-name-0"/></hostBlacklists>' -H "Content-Type:
application/xml" -H "Accept: application/xml" "http://localhost/foundation-webapp/api/hostblacklists
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="1" failed="0" entityType="HostBlacklist" operation="Insert" warning="0" count="3"
>
  <result><entity>test-host-name-0</entity><location>http:
//localhost:8080/foundation-webapp/api/hostblacklists/test-host-name-0</location><status>success</status>
</results>
```

1.17.5 Create Host Blacklists Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"hostBlacklists":[{"hostName":"test-host-name-1"}, {"hostBlacklistId":"8fb9a880-f093-4892-a0f3-b1a403b49e5e"}]'
-H "Content-Type: application/json" -H "Accept: application/json"
"http://localhost/foundation-webapp/api/hostblacklists
```

JSON Response:

```
{
  "successful" : 2,
  "failed" : 0,
  "entityType" : "HostBlacklist",
  "operation" : "Insert",
  "warning" : 0,
  "results" : [ {
    "entity" : "test-host-name-1",
    "status" : "success",
    "message" : "http://localhost:8080/foundation-webapp/api/hostblacklists/test-host-name-1"
  }, {
    "entity" : "test-host-name-2",
    "status" : "success",
    "message" : "http://localhost:8080/foundation-webapp/api/hostblacklists/test-host-name-2"
  } ],
  "count" : 2
}
```

1.17.6 Update Host Blacklist Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<hostBlacklists><hostBlacklist hostBlacklistId="11"
hostName="test-host-name-1-changed"/></hostBlacklists>' -H "Content-Type: application/xml" -H "Accept:
application/xml" "http://localhost/foundation-webapp/api/hostblacklists
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="1" failed="0" entityType="HostBlacklist" operation="Update" warning="0" count="1"
>
  <result><entity>11</entity><message>http:
//localhost:8080/foundation-webapp/api/hostblacklists/test-host-name-1-changed</message><status>success</
</results>
```

1.17.7 Delete Host Blacklists Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'<hostBlacklists><hostBlacklist hostBlacklistId="11" hostName="test-host-name-1-changed"/><hostBlacklist
hostBlacklistId="12" hostName="test-host-name-2"/></hostBlacklists>' -H "Content-Type: application/xml" -H
"Accept: application/xml" "http://localhost/foundation-webapp/api/hostblacklists
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<results successful="2" failed="0" entityType="HostBlacklist" operation="Delete" warning="0" count="2"
>
  <result><entity>11</entity><message>HostBlacklist
deleted</message><status>success</status></result>
  <result><entity>12</entity><message>HostBlacklist
deleted</message><status>success</status></result>
</results>
```

1.18 Biz Downtime Examples with Curl

(toc)

1.18.1 Set Service In Downtime Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<bizHostsAndServices><hostNames><hostName>localhost</hostName></hostNames><serviceDescriptions><serviceDesc
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/biz/setindowntime"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<bizHostServiceInDowntimes>
  <bizHostServiceInDowntime hostName="localhost" serviceDescription="local_memory"
scheduledDowntimeDepth="1" entityType="SERVICE_STATUS" entityName="local_memory"/>
</bizHostServiceInDowntimes>
```

1.18.2 Set Host Group In Downtime Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"hostNames":["*"],"hostGroupNames":["Linux Servers"]}' -H "Content-Type: application/json" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/biz/setindowntime"
```

JSON Response:

```
{
  "bizHostServiceInDowntimes" : [ {
    "hostName" : "localhost",
    "scheduledDowntimeDepth" : 1,
    "entityType" : "HOSTGROUP",
    "entityName" : "Linux Servers"
  } ]
}
```

1.18.3 Clear In Downtime Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '<bizHostServiceInDowntimes><bizHostServiceInDowntime hostName="localhost" serviceDescription="local_memory" scheduledDowntimeDepth="1" entityType="SERVICE_STATUS" entityName="local_memory"/></bizHostServiceInDowntimes>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/Biz/clearindowntime"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<bizHostServiceInDowntimes>
  <bizHostServiceInDowntime hostName="localhost" serviceDescription="local_memory"
scheduledDowntimeDepth="0" entityType="SERVICE_STATUS" entityName="local_memory"/>
</bizHostServiceInDowntimes>
```

1.18.4 Clear In Downtime Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '{"bizHostServiceInDowntimes":[{"hostName":"localhost","scheduledDowntimeDepth":1,"entityType":"HOSTGROUP","Servers"}]}' -H "Content-Type: application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/biz/clearindowntime"
```

JSON Response:

```
{
  "bizHostServiceInDowntimes" : [ {
    "hostName" : "localhost",
    "scheduledDowntimeDepth" : 1,
    "entityType" : "HOSTGROUP",
    "entityName" : "Linux Servers"
  } ]
}
```

1.18.5 Get In Downtime Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '<bizHostServiceInDowntimes><bizHostServiceInDowntime hostName="localhost" serviceDescription="local_memory"/></bizHostServiceInDowntimes>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/biz/getindowntime"
```

XML Response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<bizHostServiceInDowntimes>
  <bizHostServiceInDowntime hostName="localhost" serviceDescription="local_memory"
scheduledDowntimeDepth="1"/>
</bizHostServiceInDowntimes>
```

1.18.6 Get In Downtime Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '{"bizHostServiceInDowntimes":[{"hostName":"localhost"}]}' -H "Content-Type: application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/biz/getindowntime"
```

JSON Response:

```
{
  "bizHostServiceInDowntimes" : [ {
    "hostName" : "localhost",
    "scheduledDowntimeDepth" : 1
  } ]
}
```

1.19 Device Template Profile Examples with Curl

(toc)

1.19.1 Retrieve Device Template Profile by Device Identification Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-0"
```

XML Response:

```
<deviceTemplateProfile deviceTemplateProfileId="37" deviceIdentification="test-device-identification-0" deviceDescription="test device identification 0" timestamp="2014-11-26T11:01:29.516-0700"/>
```

1.19.2 Retrieve All Device Template Profiles Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/devicetemplateprofiles?first=0&count=2"
```

JSON Response:

```
{
  "deviceTemplateProfiles" : [ {
    "deviceTemplateProfileId" : 34,
    "deviceIdentification" : "test-device-identification-0",
    "deviceDescription" : "test device identification 0",
    "timestamp" : "2014-11-26T11:01:29.056-0700"
  }, {
    "deviceTemplateProfileId" : 35,
    "deviceIdentification" : "test-device-identification-1",
    "deviceDescription" : "test device identification 1",
    "cactiHostTemplate" : "cacti-host-template",
    "timestamp" : "2014-11-26T11:01:29.056-0700"
  } ]
}
```

1.19.3 Retrieve Device Template Profiles by Query Using JSON

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/devicetemplateprofiles?query=deviceIdentification%20like%20%27test-c"
```

JSON Response:

```

{
  "deviceTemplateProfiles" : [ {
    "deviceTemplateProfileId" : 34,
    "deviceIdentification" : "test-device-identification-0",
    "deviceDescription" : "test device identification 0",
    "timestamp" : "2014-11-26T11:01:29.056-0700"
  }, {
    "deviceTemplateProfileId" : 35,
    "deviceIdentification" : "test-device-identification-1",
    "deviceDescription" : "test device identification 1",
    "cactiHostTemplate" : "cacti-host-template",
    "timestamp" : "2014-11-26T11:01:29.056-0700"
  }, {
    "deviceTemplateProfileId" : 36,
    "deviceIdentification" : "test-device-identification-2",
    "deviceDescription" : "test device identification 2",
    "monarchHostProfile" : "monarch-host-profile",
    "timestamp" : "2014-11-26T11:01:29.056-0700"
  } ]
}

```

1.19.4 Create Device Template Profile Using XML

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<deviceTemplateProfiles><deviceTemplateProfile deviceIdentification="test-device-identification-0"
deviceDescription="test device identification 0"/></deviceTemplateProfiles>' -H "Content-Type:
application/xml" -H "Accept: application/xml"
"http://localhost/foundation-webapp/api/devicetemplateprofiles"

```

XML Response:

```

<results successful="1" failed="0" entityType="DeviceTemplateProfile" operation="Insert" warning="0"
count="1">
  <result><entity>test-device-identification-0</entity><location>http:
//localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-0</location><sta
</results>

```

1.19.5 Create Device Template Profiles Using JSON

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"deviceTemplateProfiles":[{"deviceIdentification":"test-device-identification-0","deviceDescription":"test
device identification 0"}, {"deviceIdentification":"test-device-identification-1","deviceDescription":"test
device identification
1","cactiHostTemplate":"cacti-host-template"}, {"deviceIdentification":"test-device-identification-2","device
device identification 2","monarchHostProfile":"monarch-host-profile"}]}' -H "Content-Type:
application/json" -H "Accept: application/json"
"http://localhost/foundation-webapp/api/devicetemplateprofiles"

```

JSON Response:

```

{
  "successful" : 3,
  "failed" : 0,
  "entityType" : "DeviceTemplateProfile",
  "operation" : "Insert",
  "warning" : 0,
  "results" : [ {
    "entity" : "test-device-identification-0",
    "status" : "success",
    "location" : "http:
//localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-0"
  }, {
    "entity" : "test-device-identification-1",
    "status" : "success",
    "location" : "http:
//localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-1"
  }, {
    "entity" : "test-device-identification-2",
    "status" : "success",
    "location" : "http:
//localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-2"
  } ],
  "count" : 3
}

```

1.19.6 Update Device Template Profile Using XML

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<deviceTemplateProfiles><deviceTemplateProfile deviceIdentification="test-device-identification-1-changed"
deviceDescription="test device identification 1 changed"
monarchHostProfile="monarch-host-profile"/></deviceTemplateProfiles>' -H "Content-Type: application/xml" -H
"Accept: application/xml" "http://localhost/foundation-webapp/api/devicetemplateprofiles"

```

XML Response:

```

<results successful="1" failed="0" entityType="DeviceTemplateProfile" operation="Update" warning="0"
count="1">
  <result><entity>test-device-identification-1-changed</entity><location>http:
//localhost:8080/foundation-webapp/api/devicetemplateprofiles/test-device-identification-1-changed</locat
</results>

```

1.19.7 Clear Device Template Profile Using JSON

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -H
"Accept: application/xml"
"http://localhost/foundation-webapp/api/devicetemplateprofiles/test-device-identification-2?clear=true"

```

JSON Response:

```

{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "DeviceTemplateProfile",
  "operation" : "Clear",
  "warning" : 0,
  "results" : [ {
    "entity" : "test-device-identification-2",
    "status" : "success",
    "message" : "DeviceTemplateProfile cleared"
  } ],
  "count" : 1
}

```

1.19.8 Delete Device Template Profiles Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'<deviceTemplateProfiles><deviceTemplateProfile deviceTemplateProfileId="38"
deviceIdentification="test-device-identification-1-changed" deviceDescription="test device identification 1
changed" monarchHostProfile="monarch-host-profile"
timestamp="2014-11-25T20:45:33.674-0700"/><deviceTemplateProfile deviceTemplateProfileId="39"
deviceIdentification="test-device-identification-2" deviceDescription="test device identification 2"
monarchHostProfile="monarch-host-profile"
timestamp="2014-11-25T20:45:33.264-0700"/></deviceTemplateProfiles>' -H "Content-Type: application/xml" -H
"Accept: application/xml" "http://localhost/foundation-webapp/api/devicetemplateprofiles"
```

XML Response:

```
<results successful="2" failed="0" entityType="DeviceTemplateProfile" operation="Delete" warning="0"
count="2">
  <result><entity>38</entity><message>DeviceTemplateProfile
deleted</message><status>success</status></result>
  <result><entity>39</entity><message>DeviceTemplateProfile
deleted</message><status>success</status></result>
</results>
```

1.20 Custom Group Examples with Curl

(toc)

1.20.1 Retrieve A Single Custom Group

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-0"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-0"
```

Results:

```
{
  "id" : 11,
  "name" : "TEST-CUSTOM-GROUP-0",
  "description" : "TEST-CUSTOM-GROUP-0",
  "appType" : "NAGIOS",
  "agentId" : "TEST-AGENT",
  "root" : true,
  "hostGroups" : [ {
    "id" : 4,
    "name" : "TEST-HOST-GROUP-0",
    "alias" : "TEST-HOST-GROUP-0",
    "appType" : "NAGIOS"
  } ]
}
```

```
<customGroup id="15" name="TEST-CUSTOM-GROUP-0" description="TEST-CUSTOM-GROUP-0" appType="NAGIOS"
agentId="TEST-AGENT" root="true">
  <hostGroups>
    <hostGroup id="4" name="TEST-HOST-GROUP-0" alias="TEST-HOST-GROUP-0" appType="NAGIOS"/>
  </hostGroups>
</customGroup>
```

1.20.2 Retrieve All Custom Groups

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/customgroups/"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/customgroups/"
```

Results:


```

{
  "customGroups" : [ {
    "id" : 11,
    "name" : "TEST-CUSTOM-GROUP-0",
    "description" : "TEST-CUSTOM-GROUP-0",
    "appType" : "NAGIOS",
    "agentId" : "TEST-AGENT",
    "root" : true,
    "hostGroups" : [ {
      "id" : 4,
      "name" : "TEST-HOST-GROUP-0",
      "alias" : "TEST-HOST-GROUP-0",
      "appType" : "NAGIOS"
    } ]
  }, {
    "id" : 12,
    "name" : "TEST-CUSTOM-GROUP-1",
    "agentId" : "TEST-AGENT",
    "root" : true,
    "serviceGroups" : [ {
      "id" : 10,
      "name" : "TEST-SERVICE-GROUP-0"
    } ]
  }, {
    "id" : 13,
    "name" : "TEST-CUSTOM-GROUP-2",
    "appType" : "NAGIOS",
    "root" : true
  }, {
    "id" : 14,
    "name" : "TEST-CUSTOM-GROUP-3",
    "root" : true
  } ]
}

```

```

<customGroups>
  <customGroup id="15" name="TEST-CUSTOM-GROUP-0" description="TEST-CUSTOM-GROUP-0" appType="NAGIOS"
agentId="TEST-AGENT" root="true">
    <hostGroups>
      <hostGroup id="4" name="TEST-HOST-GROUP-0" alias="TEST-HOST-GROUP-0" appType="NAGIOS"/>
    </hostGroups>
  </customGroup>
  <customGroup id="16" name="TEST-CUSTOM-GROUP-1" agentId="TEST-AGENT" root="true">
    <serviceGroups>
      <serviceGroup id="10" name="TEST-SERVICE-GROUP-0"/>
    </serviceGroups>
  </customGroup>
  <customGroup id="17" name="TEST-CUSTOM-GROUP-2" appType="NAGIOS" root="true"/>
  <customGroup id="18" name="TEST-CUSTOM-GROUP-3" root="true"/>
</customGroups>

```

1.20.3 Retrieve Custom Groups by Query (encoded)

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/customgroups?query=name%20like%20%27TEST-CUSTOM-GROUP-%25%27%2C

```

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/customgroups?query=name%20like%20%27TEST-CUSTOM-GROUP-%25%27%2C

```

Results:

```

{
  "customGroups" : [ {
    "id" : 11,
    "name" : "TEST-CUSTOM-GROUP-0",
    "description" : "TEST-CUSTOM-GROUP-0",
    "appType" : "NAGIOS",
    "agentId" : "TEST-AGENT",
    "root" : true,
    "hostGroups" : [ {
      "id" : 4,
      "name" : "TEST-HOST-GROUP-0",
      "alias" : "TEST-HOST-GROUP-0",
      "appType" : "NAGIOS"
    } ]
  }, {
    "id" : 12,
    "name" : "TEST-CUSTOM-GROUP-1",
    "agentId" : "TEST-AGENT",
    "root" : true,
    "serviceGroups" : [ {
      "id" : 10,
      "name" : "TEST-SERVICE-GROUP-0"
    } ]
  } ]
}

```

```

<customGroups>
  <customGroup id="15" name="TEST-CUSTOM-GROUP-0" description="TEST-CUSTOM-GROUP-0" appType="NAGIOS"
  agentId="TEST-AGENT" root="true">
    <hostGroups>
      <hostGroup id="4" name="TEST-HOST-GROUP-0" alias="TEST-HOST-GROUP-0" appType="NAGIOS"/>
    </hostGroups>
  </customGroup>
  <customGroup id="16" name="TEST-CUSTOM-GROUP-1" agentId="TEST-AGENT" root="true">
    <serviceGroups>
      <serviceGroup id="10" name="TEST-SERVICE-GROUP-0"/>
    </serviceGroups>
  </customGroup>
</customGroups>

```

1.20.4 Store Custom Groups

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"customGroups" : [{ "name" : "TEST-CUSTOM-GROUP-0", "description" : "TEST-CUSTOM-GROUP-0", "appType" :
"NAGIOS", "agentId" : "TEST-AGENT", "hostGroupNames" : [ "TEST-HOST-GROUP-0" ] }, { "name" :
"TEST-CUSTOM-GROUP-1", "agentId" : "TEST-AGENT", "serviceGroupNames" : [ "TEST-SERVICE-GROUP-0" ] }, { "name" :
"TEST-CUSTOM-GROUP-2", "appType" : "NAGIOS" }, { "name" : "TEST-CUSTOM-GROUP-3" } ]}' -H "Content-Type:
application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/customgroups"

```

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<customGroups><customGroup name="TEST-CUSTOM-GROUP-0" description="TEST-CUSTOM-GROUP-0" appType="NAGIOS"
agentId="TEST-AGENT"><hostGroupNames><hostGroupName>TEST-HOST-GROUP-0</hostGroupName></hostGroupNames></cust
name="TEST-CUSTOM-GROUP-1"
agentId="TEST-AGENT"><serviceGroupNames><serviceGroupName>TEST-SERVICE-GROUP-0</serviceGroupName></serviceGr
name="TEST-CUSTOM-GROUP-2" appType="NAGIOS" /><customGroup name="TEST-CUSTOM-GROUP-3" /></customGroups>' -H
"Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/customgroups"

```

Results:

```

{
  "successful" : 4,
  "failed" : 0,
  "entityType" : "CustomGroup",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "TEST-CUSTOM-GROUP-0",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-0"
  }, {
    "entity" : "TEST-CUSTOM-GROUP-1",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-1"
  }, {
    "entity" : "TEST-CUSTOM-GROUP-2",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-2"
  }, {
    "entity" : "TEST-CUSTOM-GROUP-3",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-3"
  } ],
  "count" : 4
}

```

```

<results successful="4" failed="0" entityType="CustomGroup" operation="Update" warning="0" count="4">
  <result>
    <entity>TEST-CUSTOM-GROUP-0</entity>
    <location>http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-0</location>
  <status>success</status>
</result>
  <result>
    <entity>TEST-CUSTOM-GROUP-1</entity>
    <location>http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-1</location>
  <status>success</status>
</result>
  <result>
    <entity>TEST-CUSTOM-GROUP-2</entity>
    <location>http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-2</location>
  <status>success</status>
</result>
  <result>
    <entity>TEST-CUSTOM-GROUP-3</entity>
    <location>http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-3</location>
  <status>success</status>
</result>
</results>

```

1.20.5 Add/Delete Custom Group Members

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"name" : "TEST-CUSTOM-GROUP-0", "hostGroupNames" : ["TEST-HOST-GROUP-1"]}' -H "Content-Type:
application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/customgroups/addmembers"

```

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"name" : "TEST-CUSTOM-GROUP-1", "serviceGroupNames" : ["TEST-SERVICE-GROUP-0"]}' -H "Content-Type:
application/json" -H "Accept: application/json"
"http://localhost:8080/foundation-webapp/api/customgroups/deletemembers"

```

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'<customGroup
name="TEST-CUSTOM-GROUP-0"><hostGroupNames><hostGroupName>TEST-HOST-GROUP-1</hostGroupName></hostGroupNames>
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/customgroups/addmembers"

```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'<customGroup
name="TEST-CUSTOM-GROUP-1"><serviceGroupNames><serviceGroupName>TEST-SERVICE-GROUP-0</serviceGroupName></ser
-H "Content-Type: application/xml" -H "Accept: application/xml"
"http://localhost:8080/foundation-webapp/api/customgroups/deletemembers"
```

Results:

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "CustomGroup",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "TEST-CUSTOM-GROUP-0",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-0"
  } ],
  "count" : 1
}
```

```
<results successful="1" failed="0" entityType="CustomGroup" operation="Update" warning="0" count="1">
  <result>
    <entity>TEST-CUSTOM-GROUP-1</entity>
    <location>http://localhost:8080/foundation-webapp/api/customgroups/TEST-CUSTOM-GROUP-1</location>
  <status>success</status>
</result>
</results>
```

1.20.6 Delete Custom Groups

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'{"customGroups" : [{"name" : "TEST-CUSTOM-GROUP-0"}, {"name" : "TEST-CUSTOM-GROUP-1"}, {"name" :
"TEST-CUSTOM-GROUP-2"}, {"name" : "TEST-CUSTOM-GROUP-3"}]}' -H "Content-Type: application/json" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/customgroups"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d
'<customGroups><customGroup name="TEST-CUSTOM-GROUP-0"/><customGroup
name="TEST-CUSTOM-GROUP-1"/><customGroup name="TEST-CUSTOM-GROUP-2"/><customGroup
name="TEST-CUSTOM-GROUP-3"/></customGroups>' -H "Content-Type: application/xml" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/customgroups"
```

Results:

```

{
  "successful" : 4,
  "failed" : 0,
  "entityType" : "CustomGroup",
  "operation" : "Delete",
  "warning" : 0,
  "results" : [ {
    "entity" : "TEST-CUSTOM-GROUP-0",
    "status" : "success",
    "message" : "Custom Group TEST-CUSTOM-GROUP-0 deleted."
  }, {
    "entity" : "TEST-CUSTOM-GROUP-1",
    "status" : "success",
    "message" : "Custom Group TEST-CUSTOM-GROUP-1 deleted."
  }, {
    "entity" : "TEST-CUSTOM-GROUP-2",
    "status" : "success",
    "message" : "Custom Group TEST-CUSTOM-GROUP-2 deleted."
  }, {
    "entity" : "TEST-CUSTOM-GROUP-3",
    "status" : "success",
    "message" : "Custom Group TEST-CUSTOM-GROUP-3 deleted."
  } ],
  "count" : 4
}

```

```

<results successful="4" failed="0" entityType="CustomGroup" operation="Delete" warning="0" count="4">
  <result>
    <entity>TEST-CUSTOM-GROUP-0</entity>
    <message>Custom Group TEST-CUSTOM-GROUP-0 deleted.</message>
    <status>success</status>
  </result>
  <result>
    <entity>TEST-CUSTOM-GROUP-1</entity>
    <message>Custom Group TEST-CUSTOM-GROUP-1 deleted.</message>
    <status>success</status>
  </result>
  <result>
    <entity>TEST-CUSTOM-GROUP-2</entity>
    <message>Custom Group TEST-CUSTOM-GROUP-2 deleted.</message>
    <status>success</status>
  </result>
  <result>
    <entity>TEST-CUSTOM-GROUP-3</entity>
    <message>Custom Group TEST-CUSTOM-GROUP-3 deleted.</message>
    <status>success</status>
  </result>
</results>

```

1.20.7 Custom Group Autocomplete Using XML

```

curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost/foundation-webapp/api/customgroups/autocomplete/cg"

```

XML Response:

```

<names>
  <name>CG1</name>
  <name>CG2</name>
</names>

```

1.21 Service Group Examples with Curl

(toc)

1.21.1 Retrieve A Single Service Group

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/servicegroups/SG-200"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups/SG-200"
```

Results, (service properties elided here for the sake of brevity):

```
{
  "id" : 29,
  "name" : "SG-200",
  "description" : "Service Group 200",
  "appType" : "VEMA",
  "appTypeDisplayName" : "VEMA",
  "agentId" : "Agent-007",
  "services" : [ {
    "properties" : {
    },
    "id" : 2,
    "appType" : "NAGIOS",
    "description" : "local_cpu_java",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:37:15.000-0600",
    "nextCheckTime" : "2013-05-22T10:47:15.000-0600",
    "lastStateChange" : "2013-05-17T08:57:15.000-0600",
    "hostName" : "localhost",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "127.0.0.1",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java :
2.8^^^%CPU=2.8;40;50"
  }, {
    "properties" : {
    },
    "id" : 4,
    "appType" : "NAGIOS",
    "description" : "local_cpu_perl",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:36:13.000-0600",
    "nextCheckTime" : "2013-05-22T10:46:13.000-0600",
    "lastStateChange" : "2013-05-17T08:46:12.000-0600",
    "hostName" : "localhost",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "127.0.0.1",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl :
0.7^^^%CPU=0.7;40;50"
  } ]
}
```

```

<serviceGroup id="30" name="SG-200" description="Service Group 200" appType="VEMA" appTypeDisplayName="
VEMA" agentId="Agent-007">
  <services>
    <service id="2" appType="NAGIOS" description="local_cpu_java" monitorStatus="OK" lastCheckTime=
"2013-05-22T10:37:15.000-0600" nextCheckTime="2013-05-22T10:47:15.000-0600" lastStateChange=
"2013-05-17T08:57:15.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=
"PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=
"1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java : 2.8^^^%CPU=2.8;40;50">
      <properties/>
    </service>
    <service id="4" appType="NAGIOS" description="local_cpu_perl" monitorStatus="OK" lastCheckTime=
"2013-05-22T10:36:13.000-0600" nextCheckTime="2013-05-22T10:46:13.000-0600" lastStateChange=
"2013-05-17T08:46:12.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=
"PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=
"1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl : 0.7^^^%CPU=0.7;40;50">
      <properties/>
    </service>
  </services>
</serviceGroup>

```

1.21.2 Retrieve All Service Groups

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/servicegroups/"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups/"
```

Results, (service properties elided here for the sake of brevity):

```

{
  "serviceGroups" : [ {
    "id" : 1,
    "name" : "SGL",
    "services" : [ {
      "properties" : {
      },
      "id" : 44,
      "appType" : "NAGIOS",
      "description" : "icmp_ping_alive",
      "monitorStatus" : "OK",
      "lastCheckTime" : "2013-05-22T10:37:46.000-0600",
      "nextCheckTime" : "2013-05-22T10:47:46.000-0600",
      "lastStateChange" : "2013-05-17T10:27:46.000-0600",
      "hostName" : "qa-sles-11-64-2",
      "stateType" : "HARD",
      "checkType" : "ACTIVE",
      "lastHardState" : "PENDING",
      "monitorServer" : "localhost",
      "deviceIdentification" : "172.28.113.150",
      "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 10:27:46 AM^^^OK - 172.28.113.150: rta 0.038ms,
lost 0%^^^rta=0.036ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.036ms;;; rtmin=0.036ms;;; "
    }, {
      "properties" : {
      },
      "id" : 3,
      "appType" : "NAGIOS",
      "description" : "local_cpu_nagios",
      "monitorStatus" : "OK",
      "lastCheckTime" : "2013-05-22T10:45:43.000-0600",
      "nextCheckTime" : "2013-05-22T10:55:43.000-0600",
      "lastStateChange" : "2013-05-17T08:45:43.000-0600",
      "hostName" : "localhost",
      "stateType" : "HARD",
      "checkType" : "ACTIVE",
      "lastHardState" : "PENDING",

```

```
    "monitorServer" : "localhost",
    "deviceIdentification" : "127.0.0.1",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:45:43 AM^^^OK - total %CPU for process nagios :
0.0^^^%CPU=0.0;40;50"
  } ]
}, {
  "id" : 29,
  "name" : "SG-200",
  "description" : "Service Group 200",
  "appType" : "VEMA",
  "appTypeDisplayName" : "VEMA",
  "agentId" : "Agent-007",
  "services" : [ {
    "properties" : {
    },
    "id" : 2,
    "appType" : "NAGIOS",
    "description" : "local_cpu_java",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:37:15.000-0600",
    "nextCheckTime" : "2013-05-22T10:47:15.000-0600",
    "lastStateChange" : "2013-05-17T08:57:15.000-0600",
    "hostName" : "localhost",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "127.0.0.1",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java :
2.8^^^%CPU=2.8;40;50"
  }, {
    "properties" : {
    },
    "id" : 4,
    "appType" : "NAGIOS",
    "description" : "local_cpu_perl",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:36:13.000-0600",
    "nextCheckTime" : "2013-05-22T10:46:13.000-0600",
    "lastStateChange" : "2013-05-17T08:46:12.000-0600",
    "hostName" : "localhost",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "127.0.0.1",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl :
0.7^^^%CPU=0.7;40;50"
  } ]
}, {
  "id" : 2,
  "name" : "web-svr",
  "services" : [ {
    "properties" : {
    },
    "id" : 26,
    "appType" : "NAGIOS",
    "description" : "http_alive",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:40:41.000-0600",
    "nextCheckTime" : "2013-05-22T10:50:41.000-0600",
    "lastStateChange" : "2013-05-17T10:30:40.000-0600",
    "hostName" : "sql-2008",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "172.28.113.156",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 10:30:40 AM^^^HTTP OK: HTTP/1.1 200 OK - 955 bytes
in 0.002 second response time^^^time=0.002418s;4.000000;7.000000;0.000000 size=955B;;;0"
```



```

}, {
  "properties" : {
  },
  "id" : 31,
  "appType" : "NAGIOS",
  "description" : "http_alive",
  "monitorStatus" : "UNSCHEDULED CRITICAL",
  "lastCheckTime" : "2013-05-22T10:39:21.000-0600",
  "nextCheckTime" : "2013-05-22T10:49:21.000-0600",
  "lastStateChange" : "2013-05-17T10:27:19.000-0600",
  "hostName" : "172.28.113.151",
  "stateType" : "HARD",
  "checkType" : "ACTIVE",
  "lastHardState" : "PENDING",
  "monitorServer" : "localhost",
  "deviceIdentification" : "172.28.113.151",
  "lastPlugInOutput" : "3^^3^^0^^05/17/2013 10:27:19 AM^^CRITICAL - Socket timeout after 10
seconds^^NA^^"
}, {
  "properties" : {
  },
  "id" : 22,
  "appType" : "NAGIOS",
  "description" : "http_alive",
  "monitorStatus" : "OK",
  "lastCheckTime" : "2013-05-22T10:40:36.000-0600",
  "nextCheckTime" : "2013-05-22T10:50:36.000-0600",
  "lastStateChange" : "2013-05-17T10:30:35.000-0600",
  "hostName" : "qa-rh6-64-2",
  "stateType" : "HARD",
  "checkType" : "ACTIVE",
  "lastHardState" : "PENDING",
  "monitorServer" : "localhost",
  "deviceIdentification" : "172.28.113.167",
  "lastPlugInOutput" : "1^^3^^0^^05/17/2013 10:30:35 AM^^HTTP OK: HTTP/1.1 200 OK - 1269 bytes
in 0.009 second response time^^time=0.008503s;4.000000;7.000000;0.000000 size=1269B;;;"
}, {
  "properties" : {
  },
  "id" : 36,
  "appType" : "NAGIOS",
  "description" : "icmp_ping_alive",
  "monitorStatus" : "OK",
  "lastCheckTime" : "2013-05-22T10:42:48.000-0600",
  "nextCheckTime" : "2013-05-22T10:52:48.000-0600",
  "lastStateChange" : "2013-05-17T10:32:48.000-0600",
  "hostName" : "vm-it-xp-2",
  "stateType" : "HARD",
  "checkType" : "ACTIVE",
  "lastHardState" : "PENDING",
  "monitorServer" : "localhost",
  "deviceIdentification" : "172.28.113.164",
  "lastPlugInOutput" : "1^^3^^0^^05/17/2013 10:32:48 AM^^OK - 172.28.113.164: rta 0.422ms,
lost 0%^^rta=0.422ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.422ms;;; rtmin=0.422ms;;;"
}, {
  "properties" : {
  },
  "id" : 51,
  "appType" : "NAGIOS",
  "description" : "icmp_ping_alive",
  "monitorStatus" : "OK",
  "lastCheckTime" : "2013-05-22T10:42:02.000-0600",
  "nextCheckTime" : "2013-05-22T10:52:02.000-0600",
  "lastStateChange" : "2013-05-17T10:32:02.000-0600",
  "hostName" : "qa-rh6-64-2",
  "stateType" : "HARD",
  "checkType" : "ACTIVE",
  "lastHardState" : "PENDING",
  "monitorServer" : "localhost",
  "deviceIdentification" : "172.28.113.167",

```

```
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 10:32:02 AM^^^OK - 172.28.113.167: rta 1.064ms,
lost 0%^^^rta=1.064ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=1.064ms;;; rtmin=1.064ms;;;",
  }, {
    "properties" : {
    },
    "id" : 44,
    "appType" : "NAGIOS",
    "description" : "icmp_ping_alive",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:37:46.000-0600",
    "nextCheckTime" : "2013-05-22T10:47:46.000-0600",
    "lastStateChange" : "2013-05-17T10:27:46.000-0600",
    "hostName" : "qa-sles-11-64-2",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "172.28.113.150",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 10:27:46 AM^^^OK - 172.28.113.150: rta 0.038ms,
lost 0%^^^rta=0.036ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.036ms;;; rtmin=0.036ms;;;",
  }, {
    "properties" : {
    },
    "id" : 47,
    "appType" : "NAGIOS",
    "description" : "icmp_ping_alive",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:39:59.000-0600",
    "nextCheckTime" : "2013-05-22T10:49:59.000-0600",
    "lastStateChange" : "2013-05-17T23:59:59.000-0600",
    "hostName" : "do-win7-1",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "172.28.113.152",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 11:59:59 PM^^^OK - 172.28.113.152: rta 0.702ms,
lost 0%^^^rta=0.702ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.702ms;;; rtmin=0.702ms;;;",
  }, {
    "properties" : {
    },
    "id" : 67,
    "appType" : "NAGIOS",
    "description" : "snmp_if_19",
    "monitorStatus" : "OK",
    "lastCheckTime" : "2013-05-22T10:37:56.000-0600",
    "nextCheckTime" : "2013-05-22T10:47:56.000-0600",
    "lastStateChange" : "2013-05-17T10:27:55.000-0600",
    "hostName" : "sql-2008",
    "stateType" : "HARD",
    "checkType" : "ACTIVE",
    "lastHardState" : "PENDING",
    "monitorServer" : "localhost",
    "deviceIdentification" : "172.28.113.156",
    "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 10:27:55 AM^^^SNMP OK - 0 0 0 0 0
0^^^IF-MIB::ifInOctets.19=0c IF-MIB::ifOutOctets.19=0c IF-MIB::ifInDiscards.19=0c
IF-MIB::ifOutDiscards.19=0c IF-MIB::ifInErrors.19=0c IF-MIB::ifOutErrors.19=0c"
  } ]
```

```
} ]  
}
```

```
<serviceGroups>  
  <serviceGroup id="1" name="SG1">  
    <services>  
      <service id="44" appType="NAGIOS" description="icmp_ping_alive" monitorStatus="OK"  
lastCheckTime="2013-05-22T10:37:46.000-0600" nextCheckTime="2013-05-22T10:47:46.000-0600"  
lastStateChange="2013-05-17T10:27:46.000-0600" hostName="qa-sles-11-64-2" stateType="HARD" checkType=  
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.150"  
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 10:27:46 AM^^^OK - 172.28.113.150: rta 0.038ms, lost  
0^^^rta=0.036ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.036ms;;; rtmin=0.036ms;;;">  
        <properties/>  
      </service>  
      <service id="3" appType="NAGIOS" description="local_cpu_nagios" monitorStatus="OK"  
lastCheckTime="2013-05-22T10:45:43.000-0600" nextCheckTime="2013-05-22T10:55:43.000-0600"  
lastStateChange="2013-05-17T08:45:43.000-0600" hostName="localhost" stateType="HARD" checkType=  
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1"  
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 08:45:43 AM^^^OK - total %CPU for process nagios :  
0.0^^^%CPU=0.0;40;50"><properties/>  
        </service>  
      </services>  
    </serviceGroup>  
    <serviceGroup id="30" name="SG-200" description="Service Group 200" appType="VEMA"  
appTypeDisplayName="VEMA" agentId="Agent-007">  
      <services>  
        <service id="2" appType="NAGIOS" description="local_cpu_java" monitorStatus="OK" lastCheckTime=  
"2013-05-22T10:37:15.000-0600" nextCheckTime="2013-05-22T10:47:15.000-0600" lastStateChange=  
"2013-05-17T08:57:15.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=  
"PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=  
"1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java : 2.8^^^%CPU=2.8;40;50">  
          <properties/>  
        </service>  
        <service id="4" appType="NAGIOS" description="local_cpu_perl" monitorStatus="OK" lastCheckTime=  
"2013-05-22T10:36:13.000-0600" nextCheckTime="2013-05-22T10:46:13.000-0600" lastStateChange=  
"2013-05-17T08:46:12.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=  
"PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=  
"1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl : 0.7^^^%CPU=0.7;40;50">  
          <properties/>  
        </service>  
      </services>  
    </serviceGroup>  
    <serviceGroup id="2" name="web-svr">  
      <services>  
        <service id="26" appType="NAGIOS" description="http_alive" monitorStatus="OK" lastCheckTime=  
"2013-05-22T10:40:41.000-0600" nextCheckTime="2013-05-22T10:50:41.000-0600" lastStateChange=  
"2013-05-17T10:30:40.000-0600" hostName="sql-2008" stateType="HARD" checkType="ACTIVE" lastHardState=  
"PENDING" monitorServer="localhost" deviceIdentification="172.28.113.156" lastPlugInOutput=  
"1^^^3^^^0^^^05/17/2013 10:30:40 AM^^^HTTP OK: HTTP/1.1 200 OK - 955 bytes in 0.002 second response  
time^^^time=0.002418s;4.000000;7.000000;0.000000 size=955B;;;0">  
          <properties/>  
        </service>  
        <service id="31" appType="NAGIOS" description="http_alive" monitorStatus="UNSCHEDULED CRITICAL"  
lastCheckTime="2013-05-22T10:39:21.000-0600" nextCheckTime="2013-05-22T10:49:21.000-0600"  
lastStateChange="2013-05-17T10:27:19.000-0600" hostName="172.28.113.151" stateType="HARD" checkType=  
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.151"  
lastPlugInOutput="3^^^3^^^0^^^05/17/2013 10:27:19 AM^^^CRITICAL - Socket timeout after 10  
seconds^^^NA^^^">  
          <properties/>  
        </service>  
        <service id="22" appType="NAGIOS" description="http_alive" monitorStatus="OK" lastCheckTime=  
"2013-05-22T10:40:36.000-0600" nextCheckTime="2013-05-22T10:50:36.000-0600" lastStateChange=  
"2013-05-17T10:30:35.000-0600" hostName="qa-rh6-64-2" stateType="HARD" checkType="ACTIVE"  
lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.167"  
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 10:30:35 AM^^^HTTP OK: HTTP/1.1 200 OK - 1269 bytes in 0.009  
second response time^^^time=0.008503s;4.000000;7.000000;0.000000 size=1269B;;;0">  
          <properties/>  
        </service>  
      </services>  
    </serviceGroup>  
  </serviceGroups>
```

```
</service>
  <service id="36" appType="NAGIOS" description="icmp_ping_alive" monitorStatus="OK"
lastCheckTime="2013-05-22T10:42:48.000-0600" nextCheckTime="2013-05-22T10:52:48.000-0600"
lastStateChange="2013-05-17T10:32:48.000-0600" hostName="vm-it-xp-2" stateType="HARD" checkType=
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.164"
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 10:32:48 AM^^^OK - 172.28.113.164: rta 0.422ms, lost
0^^^rta=0.422ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.422ms;;; rtmin=0.422ms;;;">
  <properties/>
</service>
  <service id="51" appType="NAGIOS" description="icmp_ping_alive" monitorStatus="OK"
lastCheckTime="2013-05-22T10:42:02.000-0600" nextCheckTime="2013-05-22T10:52:02.000-0600"
lastStateChange="2013-05-17T10:32:02.000-0600" hostName="qa-rh6-64-2" stateType="HARD" checkType=
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.167"
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 10:32:02 AM^^^OK - 172.28.113.167: rta 1.064ms, lost
0^^^rta=1.064ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=1.064ms;;; rtmin=1.064ms;;;">
  <properties/>
</service>
  <service id="44" appType="NAGIOS" description="icmp_ping_alive" monitorStatus="OK"
lastCheckTime="2013-05-22T10:37:46.000-0600" nextCheckTime="2013-05-22T10:47:46.000-0600"
lastStateChange="2013-05-17T10:27:46.000-0600" hostName="qa-sles-11-64-2" stateType="HARD" checkType=
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.150"
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 10:27:46 AM^^^OK - 172.28.113.150: rta 0.038ms, lost
0^^^rta=0.036ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.036ms;;; rtmin=0.036ms;;;">
  <properties/>
</service>
  <service id="47" appType="NAGIOS" description="icmp_ping_alive" monitorStatus="OK"
lastCheckTime="2013-05-22T10:39:59.000-0600" nextCheckTime="2013-05-22T10:49:59.000-0600"
lastStateChange="2013-05-17T23:59:59.000-0600" hostName="do-win7-1" stateType="HARD" checkType=
"ACTIVE" lastHardState="PENDING" monitorServer="localhost" deviceIdentification="172.28.113.152"
lastPlugInOutput="1^^^3^^^0^^^05/17/2013 11:59:59 PM^^^OK - 172.28.113.152: rta 0.702ms, lost
0^^^rta=0.702ms;3000.000;5000.000;0; pl=0%;80;100;; rtmax=0.702ms;;; rtmin=0.702ms;;;">
  <properties/>
</service>
  <service id="67" appType="NAGIOS" description="snmp_if_19" monitorStatus="OK" lastCheckTime=
"2013-05-22T10:37:56.000-0600" nextCheckTime="2013-05-22T10:47:56.000-0600" lastStateChange=
"2013-05-17T10:27:55.000-0600" hostName="sql-2008" stateType="HARD" checkType="ACTIVE" lastHardState=
"PENDING" monitorServer="localhost" deviceIdentification="172.28.113.156" lastPlugInOutput=
"1^^^3^^^0^^^05/17/2013 10:27:55 AM^^^SNMP OK - 0 0 0 0 0 0^^^IF-MIB::ifInOctets.19=0c
IF-MIB::ifOutOctets.19=0c IF-MIB::ifInDiscards.19=0c IF-MIB::ifOutDiscards.19=0c
IF-MIB::ifInErrors.19=0c IF-MIB::ifOutErrors.19=0c">
  <properties/>
</service>
</services>
```

```
</serviceGroup>
</serviceGroups>
```

1.21.3 Retrieve Service Groups by Query (encoded)

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/json"
"http://localhost:8080/foundation-webapp/api/servicegroups?query=name%20like%20%27SG-%25%27%20order%20by%20r
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -H "Accept:
application/xml"
"http://localhost:8080/foundation-webapp/api/servicegroups?query=name%20like%20%27SG-%25%27%20order%20by%20r
```

Results, (service properties elided here for the sake of brevity):

```
{
  "serviceGroups" : [ {
    "id" : 29,
    "name" : "SG-200",
    "description" : "Service Group 200",
    "appType" : "VEMA",
    "appTypeDisplayName" : "VEMA",
    "agentId" : "Agent-007",
    "services" : [ {
      "properties" : {
      },
      "id" : 2,
      "appType" : "NAGIOS",
      "description" : "local_cpu_java",
      "monitorStatus" : "OK",
      "lastCheckTime" : "2013-05-22T10:37:15.000-0600",
      "nextCheckTime" : "2013-05-22T10:47:15.000-0600",
      "lastStateChange" : "2013-05-17T08:57:15.000-0600",
      "hostName" : "localhost",
      "stateType" : "HARD",
      "checkType" : "ACTIVE",
      "lastHardState" : "PENDING",
      "monitorServer" : "localhost",
      "deviceIdentification" : "127.0.0.1",
      "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java :
2.8^^^%CPU=2.8;40;50"
    }, {
      "properties" : {
      },
      "id" : 4,
      "appType" : "NAGIOS",
      "description" : "local_cpu_perl",
      "monitorStatus" : "OK",
      "lastCheckTime" : "2013-05-22T10:36:13.000-0600",
      "nextCheckTime" : "2013-05-22T10:46:13.000-0600",
      "lastStateChange" : "2013-05-17T08:46:12.000-0600",
      "hostName" : "localhost",
      "stateType" : "HARD",
      "checkType" : "ACTIVE",
      "lastHardState" : "PENDING",
      "monitorServer" : "localhost",
      "deviceIdentification" : "127.0.0.1",
      "lastPlugInOutput" : "1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl :
0.7^^^%CPU=0.7;40;50"
    } ]
  } ]
}
```

```

<serviceGroups>
  <serviceGroup id="30" name="SG-200" description="Service Group 200" appType="VEMA"
  appTypeDisplayName="VEMA" agentId="Agent-007">
    <services>
      <service id="2" appType="NAGIOS" description="local_cpu_java" monitorStatus="OK" lastCheckTime=
      "2013-05-22T10:37:15.000-0600" nextCheckTime="2013-05-22T10:47:15.000-0600" lastStateChange=
      "2013-05-17T08:57:15.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=
      "PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=
      "1^^^3^^^0^^^05/17/2013 08:57:15 AM^^^OK - total %CPU for process java : 2.8^^^%CPU=2.8;40;50">
        <properties/>
      </service>
      <service id="4" appType="NAGIOS" description="local_cpu_perl" monitorStatus="OK" lastCheckTime=
      "2013-05-22T10:36:13.000-0600" nextCheckTime="2013-05-22T10:46:13.000-0600" lastStateChange=
      "2013-05-17T08:46:12.000-0600" hostName="localhost" stateType="HARD" checkType="ACTIVE" lastHardState=
      "PENDING" monitorServer="localhost" deviceIdentification="127.0.0.1" lastPlugInOutput=
      "1^^^3^^^0^^^05/17/2013 08:46:12 AM^^^OK - total %CPU for process perl : 0.7^^^%CPU=0.7;40;50">
        <properties/>
      </service>
    </services>
  </serviceGroup>
</serviceGroups>

```

1.21.4 Store Service Groups

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"serviceGroups" : [{"name" : "SG-200", "description" : "Service Group 200", "appType" : "VEMA", "agentId"
:"Agent-007", "services" : [{"service" : "local_cpu_java", "host" : "localhost"}, {"service" :
"local_cpu_perl", "host" : "localhost"}]}]' -H "Content-Type: application/json" -H "Accept:
application/json" "http://localhost:8080/foundation-webapp/api/servicegroups"

```

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'<serviceGroups><serviceGroup name="SG-200" description="Service Group 200" appType="VEMA"
agentId="Agent-007"><services><service service="local_cpu_java" host="localhost"/><service
service="local_cpu_perl" host="localhost"/></services></serviceGroup></serviceGroups>' -H "Content-Type:
application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups"

```

Results:

```

{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "ServiceGroup",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "SG-200",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/servicegroups/SG-200"
  } ],
  "count" : 1
}

```

```

<results successful="1" failed="0" entityType="ServiceGroup" operation="Update" warning="0" count="1">
  <result>
    <entity>SG-200</entity>
    <location>http://localhost:8080/foundation-webapp/api/servicegroups/SG-200</location>
  <status>success</status>
  </result>
</results>

```

1.21.5 Add/Delete Service Group Members

```

curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d
'{"name" : "SG-200", "services" : [{"service" : "local_load", "host" : "localhost"}, {"service" :
"local_users", "host" : "localhost"}]}]' -H "Content-Type: application/json" -H "Accept: application/json"

```

```
"http://localhost:8080/foundation-webapp/api/servicegroups/addmembers"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d '{ "name" : "SG-200", "services" : [{ "service" : "local_load", "host" : "localhost" } ] }' -H "Content-Type: application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/servicegroups/deletemembers"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d '<serviceGroup name="SG-200"><services><service service="local_load" host="localhost"/><service service="local_users" host="localhost"/></services></serviceGroup>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups/addmembers"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X PUT -d '<serviceGroup name="SG-200"><services><service service="local_load" host="localhost"/></services></serviceGroup>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups/deletemembers"
```

Results:

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "ServiceGroup",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "SG-200",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/servicegroups/SG-200"
  } ],
  "count" : 1
}
```

```
<results successful="1" failed="0" entityType="ServiceGroup" operation="Update" warning="0" count="1">
  <result>
    <entity>SG-200</entity>
    <location>http://localhost:8080/foundation-webapp/api/servicegroups/SG-200</location>
  <status>success</status>
  </result>
</results>
```

1.21.6 Delete Service Groups

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d '{"serviceGroups" : [{"name" : "SG-200"}]}' -H "Content-Type: application/json" -H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/servicegroups"
```

```
curl -s -H "GWOS-API-TOKEN:b94aa48e-fbc5-4423-b4a8-68162599347f" -H "GWOS-APP-NAME:cloudhub" -X DELETE -d '<serviceGroups><serviceGroup name="SG-200"/></serviceGroups>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/servicegroups"
```

Results:

```
{
  "successful" : 1,
  "failed" : 0,
  "entityType" : "ServiceGroup",
  "operation" : "Delete",
  "warning" : 0,
  "results" : [ {
    "entity" : "SG-200",
    "status" : "success",
    "message" : "Service Group SG-200 deleted."
  } ],
  "count" : 1
}
```

```
<results successful="1" failed="0" entityType="ServiceGroup" operation="Delete" warning="0" count="1">
  <result>
    <entity>SG-200</entity>
    <message>Service Group SG-200 deleted.</message>
    <status>success</status>
  </result>
</results>
```

1.21.7 Service Group Autocomplete Using JSON

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/servicegroups/autocomplete/SG"
```

JSON Response:

```
{
  "names" : [ "SG1", "SG2" ]
}
```

1.22 Biz Service Authorization Examples with Curl

(toc)

1.22.1 Get Authorized Services Using XML

```
curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d '<bizAuthorization><hostGroupNames><hostGroupName>Linux Servers</hostGroupName></hostGroupNames></bizAuthorization>' -H "Content-Type: application/xml" -H "Accept: application/xml" "http://localhost:8080/foundation-webapp/api/biz/getauthorizedservices"
```

XML Response:


```

<bizAuthorizedServices>
  <hostNames>
    <hostName>localhost</hostName>
  </hostNames>
  <serviceHostNames>
    <serviceHostMap>
      <serviceHostMapEntry serviceName="local_cpu_httpd">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
      <serviceHostMapEntry serviceName="local_cpu_java">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
      <serviceHostMapEntry serviceName="local_cpu_syslog-ng">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
      <serviceHostMapEntry serviceName="local_swap">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
      <serviceHostMapEntry serviceName="local_process_nagios">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
      <serviceHostMapEntry serviceName="tcp_http">
        <hostNames>
          <hostName>localhost</hostName>
        </hostNames>
      </serviceHostMapEntry>
    </serviceHostMap>
  </serviceHostNames>
</bizAuthorizedServices>

```

1.22.2 Get Authorized Services Using JSON

```

curl -s -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -X POST -d
'{"hostGroupNames":["Linux Servers"], "serviceGroupNames":["local"]}' -H "Content-Type: application/json"
-H "Accept: application/json" "http://localhost:8080/foundation-webapp/api/biz/getauthorizedservices"

```

JSON Response:

```

{
  "hostNames" : [ "localhost" ],
  "serviceHostNames" : {
    "local_cpu_httpd" : [ "localhost" ],
    "local_cpu_java" : [ "localhost" ],
    "local_cpu_syslog-ng" : [ "localhost" ],
    "local_swap" : [ "localhost" ],
    "local_process_nagios" : [ "localhost" ],
    "tcp_http" : [ "localhost" ]
  }
}

```

1.23 Suggestions Examples with Curl

(toc)

1.23.1 Get Suggestions Query Using XML

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/foundation-webapp/api/suggestions/query/SERVICE/local*?limit=3"
```

XML Results:

```
<suggestions count="18">
  <suggestions>
    <suggestion name="local_cpu_httpd" entityType="SERVICE"/>
    <suggestion name="local_cpu_java" entityType="SERVICE"/>
    <suggestion name="local_cpu_nagios" entityType="SERVICE"/>
  </suggestions>
</suggestions>
```

1.23.2 Get Suggestions Services Using JSON

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/json" "http://localhost/foundation-webapp/api/suggestions/services/localhost"
```

JSON Results:

```
{
  "names" : [ "local_cpu_httpd", "local_cpu_java", "local_cpu_nagios", "local_cpu_perl" ]
}
```

1.23.3 Get Suggestions Hosts Using XML

```
curl -H "GWOS-API-TOKEN:782602F4FA6BE7B4D48CE31691BFDA60" -H "GWOS-APP-NAME:cloudhub" -H "Accept: application/xml" "http://localhost/foundation-webapp/api/suggestions/hosts/local_cpu_httpd"
```

XML Results:

```
<names>
  <name>localhost</name>
</names>
```

1.24 License Check Examples with Curl

(toc)

1.24.1 License Check Using XML

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/xml' 'http://localhost:8080/foundation-webapp/api/license/check?allocate=5'
```

XML Results:

```
<licenseCheck success="true" message="OK to allocate 5 devices" devicesRequested="5" devices="1"/>
```

1.24.2 License Check Using JSON

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/json' http://localhost:8080/foundation-webapp/api/license/check
```

JSON Results:

```
{
  "success" : true,
  "message" : "OK to allocate 0 devices",
  "devicesRequested" : 0,
  "devices" : 1
}
```

1.25 Biz Feeder Examples with Curl

(toc)

1.25.1 Create or Update Host Returning XML

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/xml' -X POST -d 'message=PENDING+-+new&host=host5&status=PENDING&device=10.0.0.5&agentId=a4ca80e0-e855-43ee-86d8-f4e499f0a824' 'http://localhost:8080/foundation-webapp/api/biz/host'
```

XML Results:

```
<host id="7" hostName="host5" description="host5" monitorStatus="PENDING" appType="NAGIOS"
deviceIdentification="10.0.0.5" deviceDisplayName="10.0.0.5" lastCheckTime=
"2016-01-04T23:42:29.588-0700" nextCheckTime="2016-01-04T23:47:29.588-0700" bubbleUpStatus="PENDING"
serviceAvailability="0" acknowledged="false" agentId="a4ca80e0-e855-43ee-86d8-f4e499f0a824"
serviceCount="0" stateType="HARD" checkType="ACTIVE" lastPlugInOutput="-1^^-1^^-1^^01/01/1970
12:00:00 AM^^PENDING - new^^01/04/2016 11:47:29 PM">
  <properties>
    <property name="LastPluginOutput" value="PENDING - new"/>
  </properties>
  <device id="6" displayName="10.0.0.5" identification="10.0.0.5"/>
  <hostStatus hostStatusId="7" lastCheckTime="2016-01-04T23:42:29.588-0700" nextCheckTime=
"2016-01-04T23:47:29.588-0700">
    <monitorStatus monitorStatusId="5" name="PENDING" description="PENDING"/>
    <checkType checkTypeId="1" name="ACTIVE" description="Active Check"/>
    <stateType>
      <stateTypeId>2</stateTypeId>
      <name>HARD</name>
      <description>State Hard</description>
    </stateType>
  </hostStatus>
  <hostGroups>
    <hostGroup id="6" name="hosts" appType="NAGIOS"/>
  </hostGroups>
  <applicationType id="100" name="NAGIOS" description="System monitored by Nagios"
stateTransitionCriteria="Device;Host;ServiceDescription"/>
</host>
```

1.25.2 Create or Update Service Returning JSON

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/json' -X POST -d 'message=PENDING+-+new&host=host5&status=PENDING&serviceGroup=cpu&device=10.0.0.5&service=local_cpu_httpd&ag' 'http://localhost:8080/foundation-webapp/api/biz/service'
```

JSON Results:

```
{
  "properties" : {
    "LastPluginOutput" : "PENDING - new"
  },
  "id" : 89,
  "appType" : "NAGIOS",
  "description" : "local_cpu_httpd",
  "monitorStatus" : "PENDING",
  "lastCheckTime" : "2016-01-04T23:42:31.000-0700",
  "nextCheckTime" : "2016-01-04T23:47:31.000-0700",
  "hostName" : "host5",
  "stateType" : "HARD",
  "checkType" : "ACTIVE",
  "lastHardState" : "PENDING",
  "agentId" : "a4ca80e0-e855-43ee-86d8-f4e499f0a824",
  "monitorServer" : "localhost",
  "deviceIdentification" : "10.0.0.5",
  "lastPlugInOutput" : "-1^^-1^^-1^^01/01/1970 12:00:00 AM^^PENDING - new^^NA"
}
```

1.25.3 Create or Update Hosts Using XML

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/xml' -X POST -H 'Content-Type: application/xml' -d '<hosts><host host="host6" status="UP" message="UP" hostGroup="hosts" device="10.0.0.6" appType="NAGIOS" agentId="a4ca80e0-e855-43ee-86d8-f4e499f0a824" checkIntervalMinutes="5" allowInserts="true" mergeHosts="true" setStatusOnCreate="true"><services><service host="host6" service="local_cpu_httpd" status="OK" message="OK - 10" serviceGroup="cpu" hostGroup="hosts" device="10.0.0.6" appType="NAGIOS" agentId="a4ca80e0-e855-43ee-86d8-f4e499f0a824" serviceValue="10" metricType="vm" warningLevel="50" criticalLevel="90" checkIntervalMinutes="5" allowInserts="true" mergeHosts="true" setStatusOnCreate="true"/></service></services></host></hosts>'
'http://localhost:8080/foundation-webapp/api/biz/hosts'
```

XML Results:

```
<results successful="3" failed="0" entityType="Host" operation="Update" warning="0" count="3">
  <result>
    <entity>host6</entity>
    <location>http://localhost:8080/foundation-webapp/api/hosts/host6</location>
  </status>success</status>
  <message>Update</message>
</result>
<result>
  <entity>host6:local_cpu_httpd</entity>
  <location>http://localhost:8080/foundation-webapp/api/services/local_cpu_httpd%3FhostName=host6</location>
</status>success</status>
  <message>Update</message>
</result>
<result>
  <entity>host6:local_cpu_java</entity>
  <location>http://localhost:8080/foundation-webapp/api/services/local_cpu_java%3FhostName=host6</location>
</status>success</status>
  <message>Update</message>
</result>
</results>
```

1.25.4 Create or Update Hosts Using JSON

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept: application/json' -X POST -H 'Content-Type: application/json' -d '{"hosts": [ {"properties": {}, "host": "host6", "status": "UP", "message": "UP", "hostGroup": "hosts", "device": "10.0.0.6", "appType":
```

```
"NAGIOS", "agentId" : "a4ca80e0-e855-43ee-86d8-f4e499f0a824", "checkIntervalMinutes" : 5, "allowInserts" :
true, "mergeHosts" : true, "setStatusOnCreate" : true, "services" : [ { "properties" : {}, "host" :
"host6", "service" : "local_cpu_httpd", "status" : "OK", "message" : "OK - 10", "serviceGroup" : "cpu",
"hostGroup" : "hosts", "device" : "10.0.0.6", "appType" : "NAGIOS", "agentId" :
"a4ca80e0-e855-43ee-86d8-f4e499f0a824", "serviceValue" : "10", "metricType" : "vm", "warningLevel" : 50,
"criticalLevel" : 90, "checkIntervalMinutes" : 5, "allowInserts" : true, "mergeHosts" : true,
"setStatusOnCreate" : true }, { "properties" : {}, "host" : "host6", "service" : "local_cpu_java", "status"
: "OK", "message" : "OK - 20", "serviceGroup" : "cpu", "hostGroup" : "hosts", "device" : "10.0.0.6",
"appType" : "NAGIOS", "agentId" : "a4ca80e0-e855-43ee-86d8-f4e499f0a824", "serviceValue" : "20",
"metricType" : "vm", "warningLevel" : 75, "criticalLevel" : 90, "checkIntervalMinutes" : 5, "allowInserts"
: true, "mergeHosts" : true, "setStatusOnCreate" : true } ] } ] }'
'http://localhost:8080/foundation-webapp/api/biz/hosts'
```

JSON Results:

```
{
  "successful" : 3,
  "failed" : 0,
  "entityType" : "Host",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "host6",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/hosts/host6",
    "message" : "Update"
  }, {
    "entity" : "host6:local_cpu_httpd",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/services/local_cpu_httpd%3FhostName=host6",
    "message" : "Update"
  }, {
    "entity" : "host6:local_cpu_java",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/services/local_cpu_java%3FhostName=host6",
    "message" : "Update"
  } ],
  "count" : 3
}
```

1.25.5 Create or Update Services Using JSON

```
curl -H GWOS-API-TOKEN:5f71df72-9e0f-4f70-9143-d7c562d9ccec -H GWOS-APP-NAME:cloudhub -H 'Accept:
application/json' -X POST -H 'Content-Type: application/json' -d '{"services" : [ { "properties" : {},
"host" : "host6", "service" : "local_cpu_httpd", "status" : "PENDING", "message" : "PENDING - new",
"serviceGroup" : "cpu", "hostGroup" : "hosts", "device" : "10.0.0.6", "appType" : "NAGIOS", "agentId" :
"a4ca80e0-e855-43ee-86d8-f4e499f0a824", "warningLevel" : -1, "criticalLevel" : -1, "checkIntervalMinutes" :
5, "allowInserts" : true, "mergeHosts" : true, "setStatusOnCreate" : false }, { "properties" : {}, "host" :
"host6", "service" : "local_cpu_java", "status" : "PENDING", "message" : "PENDING - new", "serviceGroup" :
"cpu", "hostGroup" : "hosts", "device" : "10.0.0.6", "appType" : "NAGIOS", "agentId" :
"a4ca80e0-e855-43ee-86d8-f4e499f0a824", "warningLevel" : -1, "criticalLevel" : -1, "checkIntervalMinutes" :
5, "allowInserts" : true, "mergeHosts" : true, "setStatusOnCreate" : false } ] }'
```

XML Results:

```
{
  "successful" : 3,
  "failed" : 0,
  "entityType" : "ServiceStatus",
  "operation" : "Update",
  "warning" : 0,
  "results" : [ {
    "entity" : "host6",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/hosts/host6",
    "message" : "Insert"
  }, {
    "entity" : "host6:local_cpu_httpd",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/services/local_cpu_httpd%3FhostName=host6",
    "message" : "Insert"
  }, {
    "entity" : "host6:local_cpu_java",
    "status" : "success",
    "location" : "http://localhost:8080/foundation-webapp/api/services/local_cpu_java%3FhostName=host6",
    "message" : "Insert"
  } ],
  "count" : 3
}
```