

Assign Attributes

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[Grouper Web Services](#)

Description

Assign or remove attributes and values of attribute assignments. These attributes can be on groups, stems, members, memberships (immediate or any), attribute definitions, or on assignments of attributes (one level deep).

You can lookup attributes by attribute definition name, or attribute definition id

All assignments will be filtered for security based on the logged in or acted as user (security rules are on [attribute framework wiki](#))

The returned data will include the attribute assignments, value(s) on those assignments, and a normalized list of references (owner objects e.g. group/stem/etc, attribute definitions, attribute names, etc), if things changed or were already assigned, etc

You can assign attributes to multiple owners, definitions, actions, etc

attributeAssignType is a required field, must be: group, member, stem, any_mem, imm_mem, attr_def, group_asgn, mem_asgn, stem_asgn, any_mem_asgn, imm_mem_asgn, attr_def_asgn

attributeAssignOperation is required and is the operation to perform for attribute on owners, from enum AttributeAssignOperation: assign_attr, add_attr, remove_attr, replace_attr. In this case, assigning an attribute will not assign if already there. add_attr will add this assignment even if it is already there (attribute definition must allow multi assignments)

attributeAssignValueOperation is required if passing values to assign. It is the operation to perform for attribute value on attribute assignments: assign_value, add_value, remove_value, replace_values. Like the attribute assign operation, assign_value will assign if not there, or ignore if already there. add_value will add even if assigned. And replace_values will remove orphans not in the assign list.

Features

- Can pass owners, actions, values, etc. If multiples are passed, then each attribute def name will be assigned for each action on each owner.
- Lookup owner or other objects by object lookup (by id, name, etc)
- Returns group / subject information, can be detailed or not
- Can actAs another user

Assign attributes lite service

- Accepts one group, or one subject, or stem, one attribute definition name, one action to assign, one value (optional)
- Documentation: [SOAP](#) (click on assignAttributesLite), [REST](#) (click on assignAttributesLite)
- For REST, the request can put data in query string (in URL or request body)
- REST request (colon is escaped to %3A):
 - PUT /grouper-ws/servicesRest/v1_6_000/assignAttributes
 - Note: if passing data in request body e.g. actAs, use a POST
- (see documentation above for details): [Request object](#), [response object](#)
- [Response codes](#)
- [Samples](#) (all files with "Lite" in them, click on "download" to see file)
- [Samples with value assignment](#)

Assign attributes service

- Accepts multiple groups or subjects or memberhipIds (or combination) etc, attribute definitions, actions, etc to assign
- Documentation: [SOAP](#) (click on assignAttributes), [REST](#) (click on assignAttributes)
- REST request (colon is escaped to %3A):
 - POST /grouper-ws/servicesRest/v1_6_000/assignAttributes
- (see documentation above for details): [Request object](#), [response object](#)
- [Response codes overall](#)
- Returns an overall status
- [Samples](#) (all files without "Lite" in them, click on "download" to see files)
- [Samples with value assignment](#)

Assign attribute to any membership (doesnt have to be direct)

```
WebService: connecting to URL: 'http://localhost:8080/grouper-ws/servicesRest/2.6.0/attributeAssignments'

##### REQUEST START (indented) #####

POST /grouper-ws/servicesRest/2.6.0/attributeAssignments HTTP/1.1
Connection: close
```

Authorization: Basic xxxxxxxxxxxxxxxx
User-Agent: Jakarta Commons-HttpClient/3.1
Host: localhost:8080
Content-Length: 311
Content-Type: application/json; charset=UTF-8

```
{
  "WsRestAssignAttributesRequest":{
    "attributeAssignOperation":"assign_attr",
    "attributeAssignType":"any_mem",
    "wsAttributeDefNameLookups":[
      {
        "name":"test:attr"
      }
    ]
  },
  "wsOwnerMembershipAnyLookups":[
    {
      "wsGroupLookup":{
        "groupName":"etc:wsGroup"
      },
      "wsSubjectLookup":{
        "subjectId":"GrouperSystem",
        "subjectSourceId":"g:isa"
      }
    }
  ]
}
```

REQUEST END

RESPONSE START (indented)

HTTP/1.1 200 OK
Set-Cookie: JSESSIONID=xxxxxxxxxxxx; HttpOnly
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE
Content-Type: application/json; charset=UTF-8
Content-Length: 2253
Date: Tue, 11 Oct 2022 17:45:37 GMT
Connection: close

```
{
  "WsAssignAttributesResults":{
    "resultMetadata":{
      "success":"T",
      "resultCode":"SUCCESS",
      "resultMessage":", Found 1 results."
    },
    "wsMemberships":[
    ],
    "wsStems":[
    ],
    "wsAttributeDefs":[
      {
        "attributeDefType":"attr",
        "assignToAttributeDef":"F",
        "assignToStemAssignment":"F",
        "extension":"attrDef",
        "assignToMemberAssignment":"F",
        "assignToEffectiveMembership":"F",
        "uuid":"77c905289a374962b779a74d579cb2cd",
        "assignToImmediateMembershipAssignment":"F",
        "assignToEffectiveMembershipAssignment":"F",
        "assignToStem":"F",

```

```

        "assignToGroupAssignment": "F",
        "assignToMember": "F",
        "multiAssignable": "F",
        "valueType": "marker",
        "name": "test:attrDef",
        "assignToAttributeDefAssignment": "F",
        "idIndex": "10080",
        "multiValued": "F",
        "assignToGroup": "F",
        "assignToImmediateMembership": "F"
    }
]
,
"responseMetadata": {
    "serverVersion": "2.6.0",
    "millis": "653"
},
"wsGroups": [
    {
        "extension": "wsGroup",
        "displayName": "etc:wsGroup",
        "description": "wsGroup",
        "uuid": "bd7831a9c01e435bbala628f0feef150",
        "enabled": "T",
        "displayExtension": "wsGroup",
        "name": "etc:wsGroup",
        "typeOfGroup": "group",
        "idIndex": "10068"
    }
]
,
"wsAttributeDefNames": [
    {
        "attributeDefId": "77c905289a374962b779a74d579cb2cd",
        "displayExtension": "attr",
        "extension": "attr",
        "displayName": "test:attr",
        "name": "test:attr",
        "attributeDefName": "test:attrDef",
        "idIndex": "10298",
        "uuid": "16c46d4aca6c4ef7aaf02209a31c3242"
    }
]
,
"wsAttributeAssignResults": [
    {
        "deleted": "F",
        "wsAttributeAssigns": [
            {
                "attributeAssignDelegatable": "FALSE",
                "ownerMemberSourceId": "g:isa",
                "disallowed": "F",
                "createdOn": "2022/10/11 13:45:36.844",
                "enabled": "T",
                "attributeAssignType": "any_mem",
                "attributeDefId": "77c905289a374962b779a74d579cb2cd",
                "lastUpdated": "2022/10/11 13:45:36.844",
                "attributeAssignActionId": "de9ea3d237cb4fe09124791f43fc9b31",
                "ownerGroupName": "etc:wsGroup",
                "id": "bdb45214baad436c8402630e6571f059",
                "ownerGroupId": "bd7831a9c01e435bbala628f0feef150",
                "ownerMemberSubjectId": "Groupersystem",
                "ownerMemberId": "585c7be534fe4926bbe9c571a36d2e22",
                "attributeDefName": "test:attrDef",
                "attributeDefNameName": "test:attr",
                "attributeAssignActionName": "assign",
                "attributeDefNameId": "16c46d4aca6c4ef7aaf02209a31c3242",
                "attributeAssignActionType": "immediate"
            }
        ]
    }
]
,

```

```

        "valuesChanged":"F",
        "changed":"T"
    }
]
,
"wsSubjects":[
{
    "sourceId":"g:isa",
    "success":"T",
    "name":"GrouperSysAdmin",
    "resultCode":"SUCCESS",
    "id":"GrouperSystem"
}
]
}
}
}

##### RESPONSE END #####

```

Assign value example

If this is an assignment on an assignment, you first need to query to get the attribute assign id where the value is

```
[mchyzer@flash pennGroupsClient-2.3.0]$ java -jar grouperClient.jar --operation=getAttributeAssignmentsWs --attributeAssignType=group --includeAssignmentsOnAssignments=true --ownerGroupNames=a:b:c:groupName --debug=true
```

```

POST /grouperWs/servicesRest/v2_3_000/attributeAssignments HTTP/1.1
Connection: close
Authorization: Basic xxxxxxxxxxxxxxxxx
User-Agent: Jakarta Commons-HttpClient/3.1
Host: grouperws.apps.upenn.edu:-1
Content-Length: 321
Content-Type: text/xml; charset=UTF-8

```

```

<WsRestGetAttributeAssignmentsRequest>
  <attributeAssignType>group</attributeAssignType>
  <wsOwnerGroupLookups>
    <WsGroupLookup>
      <groupName>a:b:c:groupName</groupName>
    </WsGroupLookup>
  </wsOwnerGroupLookups>
  <includeAssignmentsOnAssignments>T</includeAssignmentsOnAssignments>
</WsRestGetAttributeAssignmentsRequest>

```

RESPONSE START (indented)

```

HTTP/1.1 200 OK
Date: Mon, 23 Apr 2018 12:43:25 GMT
Set-Cookie: JSESSIONID=xxxxxxxxxxxxx; Path=/grouperWs
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE
Content-Type: text/xml; charset=UTF-8
Vary: Accept-Encoding
Connection: close
Transfer-Encoding: chunked
Set-Cookie: BIGipServerPFA-grouperws_pool=3810792620.20480.0000; expires=Mon, 23-Apr-2018 18:43:26 GMT; path=/; Httponly; Secure

```

```

<WsGetAttributeAssignmentsResults>
  <WsAttributeDefName>
    <idIndex>12892</idIndex>
    <extension>legacyAttribute_grouperLoaderQuartzCron</extension>
    <displayExtension>legacyAttribute_grouperLoaderQuartzCron</displayExtension>
  </WsAttributeDefName>

```

```

<displayName>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</displayName>
<name>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</name>
<uuid>ff79e20c06314ee380bb492def9de796</uuid>
<attributeDefId>ef7039cf58b34783b6b012cc4799073e</attributeDefId>
<attributeDefName>etc:legacy:attribute:legacyAttributeDef_grouperLoader</attributeDefName>
</WsAttributeDefName>
<WsAttributeAssign>
  <disallowed>F</disallowed>
  <attributeAssignActionType>immediate</attributeAssignActionType>
  <attributeAssignDelegatable>FALSE</attributeAssignDelegatable>
  <attributeAssignActionId>d459f64e432e4820a4b79de775fd0abl</attributeAssignActionId>
  <attributeAssignActionName>assign</attributeAssignActionName>
  <attributeAssignType>group_asgn</attributeAssignType>
  <attributeDefNameId>ff79e20c06314ee380bb492def9de796</attributeDefNameId>
  <attributeDefNameName>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</attributeDefNameName>
  <attributeDefId>ef7039cf58b34783b6b012cc4799073e</attributeDefId>
  <attributeDefName>etc:legacy:attribute:legacyAttributeDef_grouperLoader</attributeDefName>
  <wsAttributeAssignValues>
    <WsAttributeAssignValue>
      <id>285dd3e3e3bf4f78955a67395de7e8df</id>
      <valueSystem>0 15 7 * * ?</valueSystem>
    </WsAttributeAssignValue>
  </wsAttributeAssignValues>
  <createdOn>2016/07/09 23:06:37.253</createdOn>
  <enabled>T</enabled>
  <id>781992a9dc0e4b58a0202e9b24e94f87</id>
  <lastUpdated>2016/07/09 23:06:37.253</lastUpdated>
  <ownerAttributeAssignId>ddfle57538af4b3aaf4b0673b5803511</ownerAttributeAssignId>
</WsAttributeAssign>
</wsAttributeAssigns>
<resultMetadata>
  <resultCode>SUCCESS</resultCode>
  <resultMessage>, Found 11 results. </resultMessage>
  <success>T</success>
</resultMetadata>
<responseMetadata>
  <resultWarnings></resultWarnings>
  <millis>590</millis>
  <serverVersion>2.3.0</serverVersion>
</responseMetadata>
<wsGroups>
  <WsGroup>
    <extension>groupName</extension>
    <typeOfGroup>group</typeOfGroup>
    <displayExtension>groupName</displayExtension>
    <displayName>a:b:c:groupName</displayName>
    <name> a:b:c:groupName </name>
    <uuid>d836336699e24404a442alcfb2027a6c</uuid>
    <idIndex>194760</idIndex>
  </WsGroup>
</wsGroups>
<wsStems/>
<wsMemberships/>
<wsSubjects/>
</WsGetAttributeAssignmentsResults>

```

#####

Then assign the value:

```

[mchyzer@flash pennGroupsClient-2.3.0]$ java -jar grouperClient.jar --operation=assignAttributesWs --
attributeAssignOperation=assign_attr --attributeAssignType=group_asgn --
ownerAttributeAssignUuids=ddfle57538af4b3aaf4b0673b5803511 --attributeDefNameNames=penn:etc:legacy:attribute:
legacyAttribute_grouperLoaderQuartzCron --attributeAssignValueOperation=replace_values --values0System="0 16 7
* * ?" --debug=true

```

REQUEST START (indented)

```

POST /grouperWs/servicesRest/v2_3_000/attributeAssignments HTTP/1.1
Connection: close

```

Authorization: Basic xxxxxxxxxxxxxxxx
User-Agent: Jakarta Commons-HttpClient/3.1
Host: grouperws.apps.upenn.edu:-1
Content-Length: 707
Content-Type: text/xml; charset=UTF-8

```
<WsRestAssignAttributesRequest>
  <attributeAssignOperation>assign_attr</attributeAssignOperation>
  <attributeAssignValueOperation>replace_values</attributeAssignValueOperation>
  <wsOwnerAttributeAssignLookups>
    <WsAttributeAssignLookup>
      <uuid>ddfle57538af4b3aaf4b0673b5803511</uuid>
    </WsAttributeAssignLookup>
  </wsOwnerAttributeAssignLookups>
  <values>
    <WsAttributeAssignValue>
      <valueSystem>0 16 7 * * ?</valueSystem>
    </WsAttributeAssignValue>
  </values>
  <attributeAssignType>group_asgn</attributeAssignType>
  <wsAttributeDefNameLookups>
    <WsAttributeDefNameLookup>
      <name>penn:etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</name>
    </WsAttributeDefNameLookup>
  </wsAttributeDefNameLookups>
</WsRestAssignAttributesRequest>
```

REQUEST END

RESPONSE START (indented)

HTTP/1.1 200 OK
Date: Mon, 23 Apr 2018 13:09:14 GMT
Set-Cookie: JSESSIONID=xxxxxxxxxxxx; Path=/grouperWs
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE
Content-Type: text/xml; charset=UTF-8
Vary: Accept-Encoding
Connection: close
Transfer-Encoding: chunked
Set-Cookie: BIGipServerPFA-grouperws_pool=3861124268.20480.0000; expires=Mon, 23-Apr-2018 19:09:15 GMT; path=/; Httponly; Secure

```
<WsAssignAttributesResults>
  <wsAttributeDefs>
    <WsAttributeDef>
      <idIndex>10046</idIndex>
      <extension>legacyAttributeDef_grouperLoader</extension>
      <name>etc:legacy:attribute:legacyAttributeDef_grouperLoader</name>
      <uuid>ef7039cf58b34783b6b012cc4799073e</uuid>
      <attributeDefType>attr</attributeDefType>
      <multiAssignable>F</multiAssignable>
      <multiValued>F</multiValued>
      <valueType>string</valueType>
      <assignToAttributeDef>F</assignToAttributeDef>
      <assignToAttributeDefAssignment>F</assignToAttributeDefAssignment>
      <assignToEffectiveMembership>F</assignToEffectiveMembership>
      <assignToEffectiveMembershipAssignment>F</assignToEffectiveMembershipAssignment>
      <assignToGroup>F</assignToGroup>
      <assignToGroupAssignment>F</assignToGroupAssignment>
      <assignToImmediateMembership>F</assignToImmediateMembership>
      <assignToImmediateMembershipAssignment>F</assignToImmediateMembershipAssignment>
      <assignToMember>F</assignToMember>
      <assignToMemberAssignment>F</assignToMemberAssignment>
      <assignToStem>F</assignToStem>
      <assignToStemAssignment>F</assignToStemAssignment>
    </WsAttributeDef>
  </wsAttributeDefs>
  <wsAttributeDefNames>
    <WsAttributeDefName>
```

```

<idIndex>12892</idIndex>
<extension>legacyAttribute_grouperLoaderQuartzCron</extension>
<displayExtension>legacyAttribute_grouperLoaderQuartzCron</displayExtension>
<displayName>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</displayName>
<name>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron</name>
<uuid>ff79e20c06314ee380bb492def9de796</uuid>
<attributeDefId>ef7039cf58b34783b6b012cc4799073e</attributeDefId>
<attributeDefName>etc:legacy:attribute:legacyAttributeDef_grouperLoader</attributeDefName>
</WsAttributeDefName>
</wsAttributeDefNames>
<wsAttributeAssignResults>
  <WsAssignAttributeResult>
    <wsAttributeAssignValueResults>
      <WsAttributeAssignValueResult>
        <changed>T</changed>
        <deleted>T</deleted>
        <wsAttributeAssignValue>
          <id>285dd3e3e3bf4f78955a67395de7e8df</id>
          <valueSystem>0 15 7 * * ?</valueSystem>
        </wsAttributeAssignValue>
      </WsAttributeAssignValueResult>
      <WsAttributeAssignValueResult>
        <changed>T</changed>
        <deleted>F</deleted>
        <wsAttributeAssignValue>
          <id>4b6c8b5df143448994ceaf6aed68856c</id>
          <valueSystem>0 16 7 * * ?</valueSystem>
        </wsAttributeAssignValue>
      </WsAttributeAssignValueResult>
    </wsAttributeAssignValueResults>
    <wsAttributeAssigns>
      <WsAttributeAssign>
        <disallowed>F</disallowed>
        <attributeAssignActionType>immediate</attributeAssignActionType>
        <attributeAssignDelegatable>FALSE</attributeAssignDelegatable>
        <attributeAssignActionId>d459f64e432e4820a4b79de775fd0ab1</attributeAssignActionId>
        <attributeAssignActionName>assign</attributeAssignActionName>
        <attributeAssignType>group_asgn</attributeAssignType>
        <attributeDefNameId>ff79e20c06314ee380bb492def9de796</attributeDefNameId>
        <attributeDefNameName>etc:legacy:attribute:legacyAttribute_grouperLoaderQuartzCron<
/attributeDefNameName>
        <attributeDefId>ef7039cf58b34783b6b012cc4799073e</attributeDefId>
        <attributeDefName>etc:legacy:attribute:legacyAttributeDef_grouperLoader</attributeDefName>
        <wsAttributeAssignValues>
          <WsAttributeAssignValue>
            <id>4b6c8b5df143448994ceaf6aed68856c</id>
            <valueSystem>0 16 7 * * ?</valueSystem>
          </WsAttributeAssignValue>
        </wsAttributeAssignValues>
        <createdOn>2016/07/09 23:06:37.253</createdOn>
        <enabled>T</enabled>
        <id>781992a9dc0e4b58a0202e9b24e94f87</id>
        <lastUpdated>2016/07/09 23:06:37.253</lastUpdated>
        <ownerAttributeAssignId>ddfle57538af4b3aaf4b0673b5803511</ownerAttributeAssignId>
      </WsAttributeAssign>
    </wsAttributeAssigns>
    <changed>F</changed>
    <valuesChanged>T</valuesChanged>
    <deleted>F</deleted>
  </WsAssignAttributeResult>
</wsAttributeAssignResults>
<resultMetadata>
  <resultCode>SUCCESS</resultCode>
  <resultMessage>, Found 1 results. </resultMessage>
  <success>T</success>
</resultMetadata>
<responseMetadata>
  <resultWarnings></resultWarnings>
  <millis>1216</millis>
  <serverVersion>2.3.0</serverVersion>
</responseMetadata>

```

```

<wsGroups/>
<wsStems/>
<wsMemberships/>
<wsSubjects/>
</WsAssignAttributesResults>

```

Example of assigning an attribute to an attribute

```

[mchyzer@flash pennGroupsClient-2.5.0]$ java -jar grouperClient-2.5.36.jar --operation=assignAttributesWs --
attributeAssignType=group --attributeAssignOperation=assign_attr --ownerGroupNames=test:testGroup --
attributeDefNameNames=test:testGroupAttrMarker --debug=true
Reading resource: grouper.client.properties, from: /home/mchyzer/grouper/pennGroupsClient-2.5.0/grouper.client.
properties
WebService: connecting as user: 'fast/medley.isc-seo.upenn.edu'
WebService: connecting to URL: 'https://grouperWs.apps.upenn.edu/grouperWs/servicesRest/2.5.36
/attributeAssignments'

##### REQUEST START (indented) #####

POST /grouperWs/servicesRest/2.5.36/attributeAssignments HTTP/1.1
Connection: close
Authorization: Basic xxxxxxxxxxxxxxxxx
User-Agent: Jakarta Commons-HttpClient/3.1
Host: grouperWs.apps.upenn.edu:-1
Content-Length: 431
Content-Type: text/xml; charset=UTF-8

<WsRestAssignAttributesRequest>
  <attributeAssignOperation>assign_attr</attributeAssignOperation>
  <attributeAssignType>group</attributeAssignType>
  <wsAttributeDefNameLookups>
    <WsAttributeDefNameLookup>
      <name>test:testGroupAttrMarker</name>
    </WsAttributeDefNameLookup>
  </wsAttributeDefNameLookups>
  <wsOwnerGroupLookups>
    <WsGroupLookup>
      <groupName>test:testGroup</groupName>
    </WsGroupLookup>
  </wsOwnerGroupLookups>
</WsRestAssignAttributesRequest>

##### REQUEST END #####

##### RESPONSE START (indented) #####

HTTP/1.1 200 OK
Date: Thu, 22 Oct 2020 17:02:29 GMT
Content-Type: application/xml; charset=UTF-8
Transfer-Encoding: chunked
Connection: close
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips
Strict-Transport-Security: max-age=15768000
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE

<WsAssignAttributesResults>
  <wsAttributeDefs>
    <WsAttributeDef>
      <idIndex>10415</idIndex>
      <extension>testGroupAttrMarkerDef</extension>
      <name>test:testGroupAttrMarkerDef</name>
      <uuid>b80e9e8c13f54093ab297aeaa7b23974</uuid>
      <attributeDefType>attr</attributeDefType>
      <multiAssignable>F</multiAssignable>
    </WsAttributeDef>
  </wsAttributeDefs>
</WsAssignAttributesResults>

```



```

    <multiValued>F</multiValued>
    <valueType>marker</valueType>
    <assignToAttributeDef>F</assignToAttributeDef>
    <assignToAttributeDefAssignment>F</assignToAttributeDefAssignment>
    <assignToEffectiveMembership>F</assignToEffectiveMembership>
    <assignToEffectiveMembershipAssignment>F</assignToEffectiveMembershipAssignment>
    <assignToGroup>F</assignToGroup>
    <assignToGroupAssignment>F</assignToGroupAssignment>
    <assignToImmediateMembership>F</assignToImmediateMembership>
    <assignToImmediateMembershipAssignment>F</assignToImmediateMembershipAssignment>
    <assignToMember>F</assignToMember>
    <assignToMemberAssignment>F</assignToMemberAssignment>
    <assignToStem>F</assignToStem>
    <assignToStemAssignment>F</assignToStemAssignment>
  </WsAttributeDef>
</wsAttributeDefs>
<wsAttributeDefNames>
  <WsAttributeDefName>
    <idIndex>30234</idIndex>
    <extension>testGroupAttrMarker</extension>
    <displayExtension>testGroupAttrMarker</displayExtension>
    <displayName>test:testGroupAttrMarker</displayName>
    <name>test:testGroupAttrMarker</name>
    <uuid>ba2c76b810ce4881a9db8c0bd871a53e</uuid>
    <attributeDefId>b80e9e8c13f54093ab297aeea7b23974</attributeDefId>
    <attributeDefName>test:testGroupAttrMarkerDef</attributeDefName>
  </WsAttributeDefName>
</wsAttributeDefNames>
<wsAttributeAssignResults>
  <WsAssignAttributeResult>
    <wsAttributeAssigns>
      <WsAttributeAssign>
        <disallowed>F</disallowed>
        <attributeAssignActionType>immediate</attributeAssignActionType>
        <attributeAssignDelegatable>FALSE</attributeAssignDelegatable>
        <attributeAssignActionId>b43313a40f064697b14c38e60afce22b</attributeAssignActionId>
        <attributeAssignActionName>assign</attributeAssignActionName>
        <attributeAssignType>group</attributeAssignType>
        <attributeDefNameId>ba2c76b810ce4881a9db8c0bd871a53e</attributeDefNameId>
        <attributeDefNameName>test:testGroupAttrMarker</attributeDefNameName>
        <attributeDefId>b80e9e8c13f54093ab297aeea7b23974</attributeDefId>
        <attributeDefName>test:testGroupAttrMarkerDef</attributeDefName>
        <createdOn>2020/10/22 13:02:21.773</createdOn>
        <enabled>T</enabled>
        <id>8ee4ff556a6a46c1b650de26100699d0</id>
        <lastUpdated>2020/10/22 13:02:21.773</lastUpdated>
        <ownerGroupId>dbfa18c3-a025-47b6-a9a0-be5ac02e8270</ownerGroupId>
        <ownerGroupName>test:testGroup</ownerGroupName>
      </WsAttributeAssign>
    </wsAttributeAssigns>
    <changed>F</changed>
    <valuesChanged>F</valuesChanged>
    <deleted>F</deleted>
  </WsAssignAttributeResult>
</wsAttributeAssignResults>
<resultMetadata>
  <resultCode>SUCCESS</resultCode>
  <resultMessage>, Found 1 results. </resultMessage>
  <success>T</success>
</resultMetadata>
<responseMetadata>
  <resultWarnings></resultWarnings>
  <millis>62</millis>
  <serverVersion>2.5.35</serverVersion>
</responseMetadata>
<wsGroups>
  <WsGroup>
    <extension>testGroup</extension>
    <typeOfGroup>group</typeOfGroup>
    <displayExtension>testGroup</displayExtension>
    <description>testGroup</description>
  </WsGroup>
</wsGroups>

```

```
<displayName>test:testGroup</displayName>
<name>test:testGroup</name>
<uuid>dbfa18c3-a025-47b6-a9a0-be5ac02e8270</uuid>
<alternateName>testdd:testGroupdd</alternateName>
<idIndex>197979</idIndex>
<enabled>T</enabled>
</WsGroup>
</wsGroups>
<wsStems/>
<wsMemberships/>
<wsSubjects/>
</WsAssignAttributesResults>
```

RESPONSE END

Output template: Index: \${index}: attributeAssignType: \${wsAttributeAssign.attributeAssignType}, owner: \${ownerName}, attributeDefNameName: \${wsAttributeDefName.name}, action: \${wsAttributeAssign.attributeAssignActionName}, values: \${valuesString}, enabled: \${wsAttributeAssign.enabled}, id: \${wsAttributeAssign.id}, changed: \${wsAssignAttributeResult.changed}, deleted: \${wsAssignAttributeResult.deleted}, valuesChanged: \${wsAssignAttributeResult.valuesChanged}, available variables: wsAssignAttributesResults, grouperClientUtils, index, wsAttributeAssignment
Index: 0: attributeAssignType: group, owner: test:testGroup, attributeDefNameName: test:testGroupAttrMarker, action: assign, values: none, enabled: T, id: 8ee4ff556a6a46c1b650de26100699d0, changed: F, deleted: F, valuesChanged: F
Elapsed time: 1111ms
[mchyzer@flash pennGroupsClient-2.5.0]\$

[mchyzer@flash pennGroupsClient-2.5.0]\$ java -jar grouperClient-2.5.36.jar --operation=assignAttributesWs --attributeAssignType=group_asgn --attributeAssignOperation=assign_attr --ownerAttributeAssignUids=8ee4ff556a6a46c1b650de26100699d0 --attributeDefNameNames=test:testGroupAttr --debug=true
Reading resource: grouper.client.properties, from: /home/mchyzer/grouper/pennGroupsClient-2.5.0/grouper.client.properties
WebService: connecting as user: 'fast/medley.isc-seo.upenn.edu'
WebService: connecting to URL: 'https://grouperWs.apps.upenn.edu/grouperWs/servicesRest/2.5.36/attributeAssignments'

REQUEST START (indented)

POST /grouperWs/servicesRest/2.5.36/attributeAssignments HTTP/1.1
Connection: close
Authorization: Basic xxxxxxxxxxxxxxxxx
User-Agent: Jakarta Commons-HttpClient/3.1
Host: grouperWs.apps.upenn.edu:-1
Content-Length: 478
Content-Type: text/xml; charset=UTF-8

```
<WsRestAssignAttributesRequest>
  <attributeAssignOperation>assign_attr</attributeAssignOperation>
  <wsOwnerAttributeAssignLookups>
    <WsAttributeAssignLookup>
      <uuid>8ee4ff556a6a46c1b650de26100699d0</uuid>
    </WsAttributeAssignLookup>
  </wsOwnerAttributeAssignLookups>
  <attributeAssignType>group_asgn</attributeAssignType>
  <wsAttributeDefNameLookups>
    <WsAttributeDefNameLookup>
      <name>test:testGroupAttr</name>
    </WsAttributeDefNameLookup>
  </wsAttributeDefNameLookups>
</WsRestAssignAttributesRequest>
```

REQUEST END

RESPONSE START (indented)

HTTP/1.1 200 OK
Date: Thu, 22 Oct 2020 17:07:47 GMT

Content-Type: application/xml;charset=UTF-8
Transfer-Encoding: chunked
Connection: close
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips
Strict-Transport-Security: max-age=15768000
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE

```
<WsAssignAttributesResults>
  <wsAttributeDefs>
    <WsAttributeDef>
      <idIndex>10416</idIndex>
      <extension>testGroupAttrDef</extension>
      <name>test:testGroupAttrDef</name>
      <uuid>ffa61e0293e54619bb0fd557673ead84</uuid>
      <attributeDefType>attr</attributeDefType>
      <multiAssignable>F</multiAssignable>
      <multiValued>F</multiValued>
      <valueType>string</valueType>
      <assignToAttributeDef>F</assignToAttributeDef>
      <assignToAttributeDefAssignment>F</assignToAttributeDefAssignment>
      <assignToEffectiveMembership>F</assignToEffectiveMembership>
      <assignToEffectiveMembershipAssignment>F</assignToEffectiveMembershipAssignment>
      <assignToGroup>F</assignToGroup>
      <assignToGroupAssignment>F</assignToGroupAssignment>
      <assignToImmediateMembership>F</assignToImmediateMembership>
      <assignToImmediateMembershipAssignment>F</assignToImmediateMembershipAssignment>
      <assignToMember>F</assignToMember>
      <assignToMemberAssignment>F</assignToMemberAssignment>
      <assignToStem>F</assignToStem>
      <assignToStemAssignment>F</assignToStemAssignment>
    </WsAttributeDef>
  </wsAttributeDefs>
  <wsAttributeDefNames>
    <WsAttributeDefName>
      <idIndex>30235</idIndex>
      <extension>testGroupAttr</extension>
      <displayExtension>testGroupAttr</displayExtension>
      <displayName>test:testGroupAttr</displayName>
      <name>test:testGroupAttr</name>
      <uuid>bdale2f99f3f49b2911275315bbf0350</uuid>
      <attributeDefId>ffa61e0293e54619bb0fd557673ead84</attributeDefId>
      <attributeDefName>test:testGroupAttrDef</attributeDefName>
    </WsAttributeDefName>
  </wsAttributeDefNames>
  <wsAttributeAssignResults>
    <WsAssignAttributeResult>
      <wsAttributeAssigns>
        <WsAttributeAssign>
          <disallowed>F</disallowed>
          <attributeAssignActionType>immediate</attributeAssignActionType>
          <attributeAssignDelegatable>FALSE</attributeAssignDelegatable>
          <attributeAssignActionId>326b49d96bfe4e71a147559d99bed6d1</attributeAssignActionId>
          <attributeAssignActionName>assign</attributeAssignActionName>
          <attributeAssignType>group_asgn</attributeAssignType>
          <attributeDefNameId>bdale2f99f3f49b2911275315bbf0350</attributeDefNameId>
          <attributeDefNameName>test:testGroupAttr</attributeDefNameName>
          <attributeDefId>ffa61e0293e54619bb0fd557673ead84</attributeDefId>
          <attributeDefName>test:testGroupAttrDef</attributeDefName>
          <createdOn>2020/10/22 13:07:47.223</createdOn>
          <enabled>T</enabled>
          <id>d2bdb490a64b42598e061a21df13184a</id>
          <lastUpdated>2020/10/22 13:07:47.223</lastUpdated>
          <ownerAttributeAssignId>8ee4ff556a6a46c1b650de26100699d0</ownerAttributeAssignId>
        </WsAttributeAssign>
      </wsAttributeAssigns>
      <changed>T</changed>
      <valuesChanged>F</valuesChanged>
      <deleted>F</deleted>
    </WsAssignAttributeResult>
  </wsAttributeAssignResults>
</WsAssignAttributesResults>
```

```

</wsAttributeAssignResults>
<resultMetadata>
  <resultCode>SUCCESS</resultCode>
  <resultMessage>, Found 1 results. </resultMessage>
  <success>T</success>
</resultMetadata>
<responseMetadata>
  <resultWarnings></resultWarnings>
  <millis>192</millis>
  <serverVersion>2.5.35</serverVersion>
</responseMetadata>
<wsGroups/>
<wsStems/>
<wsMemberships/>
<wsSubjects/>
</WsAssignAttributesResults>

```

RESPONSE END

Output template: Index: \${index}: attributeAssignType: \${wsAttributeAssign.attributeAssignType}, owner: \${ownerName}, attributeDefNameName: \${wsAttributeDefName.name}, action: \${wsAttributeAssign.attributeAssignActionName}, values: \${valuesString}, enabled: \${wsAttributeAssign.enabled}, id: \${wsAttributeAssign.id}, changed: \${wsAssignAttributeResult.changed}, deleted: \${wsAssignAttributeResult.deleted}, valuesChanged: \${wsAssignAttributeResult.valuesChanged}, available variables: wsAssignAttributesResults, grouperClientUtils, index, wsAttributeAssignment

Index: 0: attributeAssignType: group_asgn, owner: 8ee4ff556a6a46c1b650de26100699d0, attributeDefNameName: test: testGroupAttr, action: assign, values: none, enabled: T, id: d2bdb490a64b42598e061a21df13184a, changed: T, deleted: F, valuesChanged: F

Elapsed time: 1917ms

[mchyzer@flash pennGroupsClient-2.5.0]\$

Replacing attribute values

Make a string def

New attribute definition

Create in this folder:

Enter a folder name or [search for a folder where you are allowed to create new attribute definitions](#).

Attribute definition ID:

ID is the unique identifier for this attribute definition. It should be short and simple, and might have character restrictions. The ID should rarely change, if ever.

Description:

Description contains notes about the attribute definition, which could include: what the attribute definition represents, why it was created, etc.

Type:

Attribute definition type describes the attribute definition. Generally it will be attribute or permission. Type is used for templates, limit describes a permission, and service identifies which application the object refers to.

- Assign to:
- | | |
|---|---|
| <input type="checkbox"/> Attribute definition | <input type="checkbox"/> Attribute definition attribute assignment |
| <input type="checkbox"/> Folder | <input type="checkbox"/> Folder attribute assignment |
| <input checked="" type="checkbox"/> Group / Role / Local entity | <input type="checkbox"/> Group / Role / Local entity attribute assignment |
| <input type="checkbox"/> Member | <input type="checkbox"/> Member attribute assignment |
| <input type="checkbox"/> Membership | <input type="checkbox"/> Membership attribute assignment |
| <input type="checkbox"/> Membership - immediate only | <input type="checkbox"/> Membership - immediate only - attribute assignment |

Designate which types of objects that this definition can be assigned to. There are six base object types, or you can assign attributes to the assignment of attributes to those base object types. Membership can be assigned to an immediate or an effective membership, and will still exist as an orphan if the membership is unassigned until the membership is reassigned. Immediate membership attribute assignments are only assignable to immediate memberships and are automatically deleted once the membership is unassigned.

Multi-assignable: ☐

If this attribute can be assigned to the same owner object more than once. For instance, a Group can have more than one Rule attached to it, so the Rule attribute is multi-assignable

Value type:

If this attribute assignment holds one or more values, this is the type. If there are no allowed values, select No value.

Multi-valued: ☒


If this attribute has values, if it can have more than one value assigned at once.

[Show advanced properties](#) ▾

Make a string name

[Home](#) > [Root](#) > [test](#) > [isc](#) > [ait](#) > [mchyzer](#) > [someString](#)

Attribute name


 **someString**

Actions ▾

Description:


Description contains notes about the attribute name, which could include: what the attribute name represents, why it was created, etc.

Attribute definition:

 [someStringDef](#)

The attribute definition holds the settings and security for attribute. Each attribute definition can have multiple attribute names.

Folder:


 [mchyzer](#)

Folder is the namespace where this attribute name resides.

More ▾

Make a group and let your principal assign

[Home](#) > [Root](#) > [test](#) > [isc](#) > [ait](#) > [mchyzer](#) > [testMchyzer](#)

 **testMchyzer**

[+ Add members](#)

More actions ▾

More ▾

Members

Privileges

More ▾

The following table lists all entities with privileges on this group.

Filter for:

Entity name

Apply filter



Reset

Advanced

Update:

Assign the ADMIN privilege ▾

Update selected

<input type="checkbox"/> Entity name ▾	Admin	Read	Update	OptIn	OptOut	Attribute read	Attribute update	View	Choose action
<input type="checkbox"/>  Chris Hyzer	✓	✓	✓	✓	✓	✓	✓	✓	Actions ▾
<input type="checkbox"/>  fast/medley.isc-seo.upenn.edu						✓	✓	✓	Actions ▾

Show:

100 ▾

Showing 1-2 of 2 · [First](#) | [Prev](#) | [Next](#) | [Last](#)

Allow principal to assign the attribute

[Home](#) > [Root](#) > [test](#) > [isc](#) > [ait](#) > [mchyzer](#) > someStringDef

Attribute definition

[+ Add members](#)
[More actions ▼](#)


someStringDef

More ▼

Attribute names
Privileges
More ▼

The following table lists all entities with privileges for this attribute definition.

Filter for:

Update:										
<input type="text" value="Assign the ADMIN privilege"/>		<input type="button" value="Update selected"/>								
<input type="checkbox"/> Entity name ▼	Admin	Read	Update	OptIn	OptOut	Attribute read	Attribute update	View	Choose action	
<input type="checkbox"/>  fast/medley.isc-seo.upenn.edu		✓	✓	✓	✓			✓	<input type="button" value="Actions ▼"/>	

Show:
Showing 1-1 of 1 · [First](#) | [Prev](#) | [Next](#) | [Last](#)

```
</values>
<attributeAssignType>group</attributeAssignType>
<wsAttributeDefNameLookups>
  <WsAttributeDefNameLookup>
    <name>test:isc:ait:mchyzer:someString</name>
  </WsAttributeDefNameLookup>
</wsAttributeDefNameLookups>
<wsOwnerGroupLookups>
  <WsGroupLookup>
    <groupName>test:isc:ait:mchyzer:testMchyzer</groupName>
  </WsGroupLookup>
</wsOwnerGroupLookups>
</WsRestAssignAttributesRequest>
##### REQUEST END #####
##### RESPONSE START (indented) #####
HTTP/1.1 200 OK
Date: Mon, 14 Mar 2022 20:17:21 GMT
Content-Type: application/xml; charset=UTF-8
Transfer-Encoding: chunked
Connection: close
Server: Apache/2.4.6 (CentOS) OpenSSL/1.0.2k-fips
Strict-Transport-Security: max-age=15768000
X-Grouper-resultCode: SUCCESS
X-Grouper-success: T
X-Grouper-resultCode2: NONE
<WsAssignAttributesResults>
  <wsAttributeDefs>
    <WsAttributeDef>
      <idIndex>10521</idIndex>
      <extension>someStringDef</extension>
      <name>test:isc:ait:mchyzer:someStringDef</name>
      <uuid>9fd502bef5224ee6bd1397f30065b232</uuid>
      <attributeDefType>attr</attributeDefType>
      <multiAssignable>F</multiAssignable>
      <multiValued>T</multiValued>
      <valueType>string</valueType>
      <assignToAttributeDef>F</assignToAttributeDef>
      <assignToAttributeDefAssignment>F</assignToAttributeDefAssignment>
      <assignToEffectiveMembership>F</assignToEffectiveMembership>
      <assignToEffectiveMembershipAssignment>F</assignToEffectiveMembershipAssignment>
      <assignToGroup>F</assignToGroup>
      <assignToGroupAssignment>F</assignToGroupAssignment>
      <assignToImmediateMembership>F</assignToImmediateMembership>
      <assignToImmediateMembershipAssignment>F</assignToImmediateMembershipAssignment>
      <assignToMember>F</assignToMember>
      <assignToMemberAssignment>F</assignToMemberAssignment>
      <assignToStem>F</assignToStem>
      <assignToStemAssignment>F</assignToStemAssignment>
    </WsAttributeDef>
  </wsAttributeDefs>
  <wsAttributeDefNames>
    <WsAttributeDefName>
      <idIndex>61289</idIndex>
      <extension>someString</extension>
      <displayExtension>someString</displayExtension>
      <displayName>test:isc:ait:mchyzer:someString</displayName>
      <name>test:isc:ait:mchyzer:someString</name>
      <uuid>82eae611fa324734924a76b611fa29c4</uuid>
      <attributeDefId>9fd502bef5224ee6bd1397f30065b232</attributeDefId>
      <attributeDefName>test:isc:ait:mchyzer:someStringDef</attributeDefName>
    </WsAttributeDefName>
  </wsAttributeDefNames>
  <wsAttributeAssignResults>
    <WsAssignAttributeResult>
      <wsAttributeAssignValueResults>
        <WsAttributeAssignValueResult>
          <changed>T</changed>
          <deleted>F</deleted>
          <wsAttributeAssignValue>
            <id>64dacb6a42684b1085b441699a8125e2</id>
            <valueSystem>another</valueSystem>
```



```

        </wsAttributeAssignValue>
    </WsAttributeAssignValueResult>
    <WsAttributeAssignValueResult>
        <changed>T</changed>
        <deleted>F</deleted>
        <wsAttributeAssignValue>
            <id>087026f749ff42bcbeldaebe42a5054a</id>
            <valueSystem>some</valueSystem>
        </wsAttributeAssignValue>
    </WsAttributeAssignValueResult>
    <WsAttributeAssignValueResult>
        <changed>T</changed>
        <deleted>F</deleted>
        <wsAttributeAssignValue>
            <id>33dfac0f15b34b52bd6a62be901c71a6</id>
            <valueSystem>val</valueSystem>
        </wsAttributeAssignValue>
    </WsAttributeAssignValueResult>
</wsAttributeAssignValueResults>
<wsAttributeAssigns>
    <WsAttributeAssign>
        <disallowed>F</disallowed>
        <attributeAssignActionType>immediate</attributeAssignActionType>
        <attributeAssignDelegatable>FALSE</attributeAssignDelegatable>
        <attributeAssignActionId>73fb98ab652a490b9c7bde464ad674b8</attributeAssignActionId>
        <attributeAssignActionName>assign</attributeAssignActionName>
        <attributeAssignType>group</attributeAssignType>
        <attributeDefNameId>82eae611fa324734924a76b611fa29c4</attributeDefNameId>
        <attributeDefNameName>test:isc:ait:mchyzer:someString</attributeDefNameName>
        <attributeDefId>9fd502bef5224ee6bd1397f30065b232</attributeDefId>
        <attributeDefName>test:isc:ait:mchyzer:someStringDef</attributeDefName>
        <wsAttributeAssignValues>
            <WsAttributeAssignValue>
                <id>64dacb6a42684b1085b441699a8125e2</id>
                <valueSystem>another</valueSystem>
            </WsAttributeAssignValue>
            <WsAttributeAssignValue>
                <id>087026f749ff42bcbeldaebe42a5054a</id>
                <valueSystem>some</valueSystem>
            </WsAttributeAssignValue>
            <WsAttributeAssignValue>
                <id>33dfac0f15b34b52bd6a62be901c71a6</id>
                <valueSystem>val</valueSystem>
            </WsAttributeAssignValue>
        </wsAttributeAssignValues>
        <createdOn>2022/03/14 16:17:21.402</createdOn>
        <enabled>T</enabled>
        <id>7e5d962178284c798c5bbf514c3bcd9a</id>
        <lastUpdated>2022/03/14 16:17:21.402</lastUpdated>
        <ownerGroupId>7c4d9d393ff24a29b160b6d36865292f</ownerGroupId>
        <ownerGroupName>test:isc:ait:mchyzer:testMchyzer</ownerGroupName>
    </WsAttributeAssign>
</wsAttributeAssigns>
    <changed>T</changed>
    <valuesChanged>T</valuesChanged>
    <deleted>F</deleted>
</WsAssignAttributeResult>
</wsAttributeAssignResults>
<resultMetadata>
    <resultCode>SUCCESS</resultCode>
    <resultMessage>, Found 1 results. </resultMessage>
    <success>T</success>
</resultMetadata>
<responseMetadata>
    <resultWarnings></resultWarnings>
    <millis>375</millis>
    <serverVersion>2.6.5</serverVersion>
</responseMetadata>
<wsGroups>
    <WsGroup>
        <extension>testMchyzer</extension>
    </WsGroup>
</wsGroups>

```

```

<typeOfGroup>group</typeOfGroup>
<displayExtension>testMchyzer</displayExtension>
<displayName>test:isc:ait:mchyzer:testMchyzer</displayName>
<name>test:isc:ait:mchyzer:testMchyzer</name>
<uuid>7c4d9d393ff24a29b160b6d36865292f</uuid>
<idIndex>116332</idIndex>
<enabled>T</enabled>
</WsGroup>
</wsGroups>
<wsStems/>
<wsMemberships/>
<wsSubjects/>
</WsAssignAttributesResults>
##### RESPONSE END #####
Output template: Index: ${index}: attributeAssignType: ${wsAttributeAssign.attributeAssignType}, owner:
${ownerName}, attributeDefNameName: ${wsAttributeDefName.name}, action: ${wsAttributeAssign.
attributeAssignActionName}, values: ${valuesString}, enabled: ${wsAttributeAssign.enabled}, id:
${wsAttributeAssign.id}, changed: ${wsAssignAttributeResult.changed}, deleted: ${wsAssignAttributeResult.
deleted}, valuesChanged: ${wsAssignAttributeResult.valuesChanged}, available variables:
wsAssignAttributesResults, grouperClientUtils, index, wsAttributeAssignment
Index: 0: attributeAssignType: group, owner: test:isc:ait:mchyzer:testMchyzer, attributeDefNameName: test:isc:
ait:mchyzer:someString, action: assign, values: another,some,val, enabled: T, id:
7e5d962178284c798c5bbf514c3bcd9a, changed: T, deleted: F, valuesChanged: T
Elapsed time: 1346ms
[mchyzer@flash pennGroupsClient-2.6.0]$

```

See the values

The screenshot shows the 'testMchyzer' web application. The breadcrumb navigation is 'Home > Root > test > isc > ait > mchyzer > testMchyzer'. The main header has the 'testMchyzer' logo and a 'More actions' button. Below the header, there are tabs for 'Members', 'Privileges', and 'More'. The main content area is titled 'Attribute assignments' and includes an orange button '+ Assign attribute'. A message states: 'The following table lists all attributes assigned to this group'. Below this is a table with the following data:

Assignment type	Attribute name	Enabled?	Assignment values	Attribute definition	Choose action
Direct assignment	someString	enabled	val some another	someStringDef	Actions

Replace the values again

```

[mchyzer@flash pennGroupsClient-2.6.0]$ java -jar grouperClient-2.6.0.jar --operation=assignAttributesWs --
attributeAssignType=group --attributeAssignOperation=assign_attr --attributeDefNameNames=test:isc:ait:mchyzer:
someString --ownerGroupNames=test:isc:ait:mchyzer:testMchyzer --attributeAssignValueOperation=replace_values --
values0System=some --values2System=another1 --debug=true

```