Network IGNITE – APIs & JSONs

# Collections

## POST

### URL: <http://BASE_URL/api/collection/>

### BODY:

{

"name": <string>,

"type": {“auto”,”integer”,”vlan”,”IP”,”IPv6”},

"scope ": {“global”,”fabric”,”switch”},

"range":[

{

"start":<starting\_range\_value>,

"end":"<ending\_range\_value>"

}

]

}

### Example:

{

"name": "Backbone\_Vlan",

"type": "vlan",

" scope ": "fabric",

"range":[

{

"start":"10",

"end":"15"

}

]

}

### Response:

{

"id": 12,

"name": "Backbone\_Vlan",

"type": "vlan",

"scope": "fabric",

"range": [

{

"start": "10",

"end": "15"

}

],

"used": 0,

"available": 6,

}

## GET

**<Only where scope=global>**

### URL: [http://BASE\_URL/api/collection/{collection\_id}](http://BASE_URL/api/collection/%7bcollection_id%7d)

### Response:

{

"id": 15,

"name": "mgmt\_ipp",

"type": "IP",

"range": [

{

"start": "192.168.10.20/24",

"end": "192.168.10.25/24"

}

],

"used": 2,

"available": 4,

"scope": global,

"used\_data": [

{

"value": "192.168.10.20/24",

"assigned": "PodB\_Spine2",

"lastmodified": "2015-07-01 11:31:11.355162+00:00"

},

{

"value": "192.168.10.21/24",

"assigned": "PodA\_Spine1",

"lastmodified": "2015-07-01 11:31:11.374250+00:00"

},

]

}

## GET ALL

### URL: <http://BASE_URL/api/collection/>

### Response:

[

{

"id": 6,

"name": "mgmt\_ip",

"type": "IP",

"range": [

{

"start": "10.0.0.1/24",

"end": "10.0.0.2/24"

}

],

"used": 3,

"available": 3,

"scope": “global”

},

{

"id": 7,

"name": "Backbone\_Vlans",

"type": "vlan",

"range": [

{

"start": "10",

"end": "15"

}

],

"used": 0,

"available": 6,

"scope": “global”

}

]

## DELETE

### URL: [http://BASE\_URL/api/collection/{collection\_id}](http://BASE_URL/api/collection/%7bcollection_id%7d)

# Discovery Rule

## POST & PUT

### URL: <http://BASE_URL/api/discoveryrule/>

### BODY:

{

"name": <string>,

"priority":<integer>,

"config\_id":<integer>,

"match":{“all”,”any”},

"subrules":[

{

"rn\_condition":{“contain”,”no\_contain”,”match”,”no\_match”,”any”,”exact”,”one of”,”none”},

"rn\_string":<string>,

"rp\_condition":{“contain”,”no\_contain”,”match”,”no\_match”,”any”,”exact”,”one of”,”none”},

"rp\_string":<string>,

"lp\_condition":{“contain”,”no\_contain”,”match”,”no\_match”,”any”,”exact”,”one of”,”none”},

"lp\_string":<string>,

},

]

}

### SAMPLE:

{

"priority":"100",

"name": "Rule2",

" config\_id ":"1",

"match":”all”,

"subrules":[

{

"rn\_condition":"contain",

"rn\_string":"spine\*",

"rp\_condition":"match",

"rp\_string":"ethernet1/\*",

"lp\_condition":"any",

"lp\_string":"any"

},

{

"rn\_condition":"no\_contain",

"rn\_string":"spine\*",

"rp\_condition":"no\_match",

"rp\_string":"ethernet1/\*",

"lp\_condition":"none",

"lp\_string":"any"

}

]

}

### Response Body:

{

"id": 11,

"name": "Rule2",

"priority": 100,

"match": “all”,

"used\_count": 0,

"user": "arunrm",

"last\_modified": "2015-07-01T09:57:53.707898Z",

" config\_id ": 1

}

## GET

### URL: [http://BASE\_URL/api/discoveryrule/{rule\_id}](http://BASE_URL/api/discoveryrule/%7brule_id%7d)

### Response Body:

{

"name": "Rule3",

"subrules": [

{

"rn\_string": "spine\*",

"lp\_condition": "any",

"lp\_string": "any",

"rn\_condition": "contain",

"rp\_condition": "match",

"rp\_string": "ethernet1/\*"

},

{

"rn\_string": "spine\*",

"lp\_condition": "none",

"lp\_string": "any",

"rn\_condition": "no\_contain",

"rp\_condition": "no\_match",

"rp\_string": "ethernet1/\*"

}

],

"priority": 100,

"last\_modified": "2015-06-30T12:26:16.601642Z",

"user": "arunrm",

"match": "all",

"config\_id": 1,

"id": 5,

"used\_count": 0

}

## GET ALL

### URL: <http://BASE_URL/api/discoveryrule/>

### Response Body:

{

'Rules': [

{

"id": 5,

"name": "Rule3",

"priority": 100,

"used\_count": 0,

"user": "arunrm",

"last\_modified": "2015-06-30T12:26:16.601642Z",

"config\_id": 1

},

{

"id": 6,

"name": "Rule2",

"priority": 100,

"used\_count": 0,

"user": "arunrm",

"last\_modified": "2015-06-30T12:26:40.634927Z",

"config\_id": 1

}

]

}

## Delete:

### URL: [http://BASE\_URL/api/discoveryrule/{rule\_id}](http://BASE_URL/api/discoveryrule/%7brule_id%7d)

# Topology

## POST

### URL: <http://BASE_URL/api/fabric/topology/>

### BODY:

{

"topology\_name":"Topology 2",

"tier":2,

"switch\_list":[

{

"switch\_name" : "spine1",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "spine2",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf3",

"switch\_type" : "LeafSimple",

"switch\_tier" :2

}

],

"link\_list":[

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e2/1","e2/2"],

"switch\_1":"leaf1",

"port\_list\_1":["e2/1","e2/2"],

"link\_type":"SingleLink"

}

]

}

### Response Body:

{

"topology":[

{

"id" : 1,

"name": "Topology 2",

"used": 0,

"user": "Chad N"

"last-modified":"2015 Jan 25 09:35:43"

}

}

## PUT

### URL: [http://BASE\_URL/api/fabric/topology/{id}](http://BASE_URL/api/fabric/topology/%7bid%7d)

### BODY:

{

"topology\_name":"Topology 2",

"num\_tiers":2,

"switch\_list":[

{

"switch\_name" : "spine1",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "spine2",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf3",

"switch\_type" : "LeafSimple",

"switch\_tier" :2

}

],

"link\_list":[

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e2/1","e2/2"],

"switch\_1":"leaf1",

"port\_list\_1":["e2/1","e2/2"],

"link\_type":"SingleLink"

}

]

}

### Response Body:

{

"topology":[

{

"id" : 1,

"name": "Topology 2",

"used": 0,

"user": "Chad N"

"last-modified":"2015 Jan 25 09:35:43"

}

}

## GET

### URL: [http://BASE\_URL/api/fabric/topology/{id}](http://BASE_URL/api/fabric/topology/%7bid%7d)

### Response Body:

{

"id" : 1,

"topology\_name":"Topology 2",

"num\_tiers":2,

"switch\_list":[

{

"switch\_name" : "spine1",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "spine2",

"switch\_type" : "Spine2slots",

"switch\_tier" :1

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf1",

"switch\_type" : "LeafVPC",

"switch\_tier" :2

},

{

"switch\_name" : "leaf3",

"switch\_type" : "LeafSimple",

"switch\_tier" :2

}

],

"link\_list":[

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/1"],

"switch\_1":"spine1",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf1",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/1"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/2"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf3",

"port\_list\_2":["e1/2"],

"switch\_1":"spine2",

"port\_list\_1":["e1/3"],

"link\_type":"SingleLink"

},

{

"switch\_2":"leaf2",

"port\_list\_2":["e2/1","e2/2"],

"switch\_1":"leaf1",

"port\_list\_1":["e2/1","e2/2"],

"link\_type":"SingleLink"

}

]

}

## GET ALL

### URL: <http://BASE_URL/api/fabric/topology/>

### Response Body:

{

"topology":[

{

"name": "Standardleafspine",

"used": 15,

"user": "Chad N"

"last-modified":"2015 Jan 25 09:35:43"

},

{

"name": "LeafSpinevPC",

"used": 8,

"user": "Jack B"

"last-modified":"2015 Feb 25 09:35:43"

}

]

}

## Delete:

### URL: [http://BASE\_URL/api/fabric/topology/{id}](http://BASE_URL/api/fabric/topology/%7bid%7d)

# Fabric Instance

## POST

### URL: <http://BASE_URL/api/fabric/>

### BODY:

{

"name":"PoddeptA",

"instance" : 5,

"topology\_id" : 1,

"locked" : 1,

"validate" : 1,

"config\_json" : [

{

"switch\_name" : "Spine1",

"configuration\_id" : 1,

},

{

"switch\_name" : "Leaf1",

"configuration\_id" : 2,

},

{

"switch\_name" : "Leaf2",

"configuration\_id" : 2,

}

]

}

### Response Body:

{

'FI' :

{

"id" :1,

'name' : 'PoddeptA',

'instance' : 5,

'topology' : 'Standardleafspine',

'locked' : 1,

'validate' : 1,

'Booted' : 20,

'last-modified' : '2015 Jan 25 09:35:43',

'user-id' : 1,

}

}

## PUT

### URL: [http://BASE\_URL/api/fabric/{id}](http://BASE_URL/api/fabric/%7bid%7d)

### BODY:

{

"name":"PoddeptA",

"instance" : 5,

"topology\_id" : 1,

"locked" : 1,

"validate" : 1,

"config\_json" : [

{

"switch\_name" : "Spine1",

"configuration\_id" : 1,

},

{

"switch\_name" : "Leaf1",

"configuration\_id" : 2,

},

{

"switch\_name" : "Leaf2",

"configuration\_id" : 2,

}

]

}

### Response Body:

{

'FI' :

{

"id" :1,

'name' : 'PoddeptA',

'instance' : 5,

'topology' : 'Standardleafspine',

'locked' : 1,

'validate' : 1,

'Booted' : 20,

'last-modified' : '2015 Jan 25 09:35:43',

'user-id' : 1,

}

}

## GET

### URL: [http://BASE\_URL/api/fabric/{id}](http://BASE_URL/api/fabric/%7bid%7d)

### Response Body:

{

"name":"PoddeptHelloGreat",

"instance" : 5,

"topology\_id" : 1,

"locked" : 1,

"booted" : 0,

"validate" : 1,

"config\_json" : [

{

"switch\_name" : "Spine-1",

"config\_id" : 1,

},

{

"switch\_name" : "Leaf-1",

"config\_id" : 2,

},

{

"switch\_name" : "Leaf-1",

"config\_id" : 3,

:w

]

}

]

}

## GET ALL

### URL: <http://BASE_URL/api/fabric/>

### Response Body:

{

'FI' : [

{

'name' : 'PoddeptA',

'instance' : 5,

'topology' : 'Standardleafspine',

'locked' : 1,

'validate' : 1,

'Booted' : 20,

'last-modified' : '2015 Jan 25 09:35:43',

'user-id' : 1,

},

{

'name' : 'PoddeptA',

'instacne' : 5,

'topology' : 'Standardleafspine',

'locked' : 1,

'validate' : 1,

'Booted' : 0,

'last-modified' : '2015 Feb 25 09:35:43',

'user-id' : 2,

}

]

}

## Delete:

### URL: [http://BASE\_URL/api/fabric/{id}](http://BASE_URL/api/fabric/%7bid%7d)

# Configlet

## POST & PUT

### URL: <http://BASE_URL/api/configlet/>

### BODY:

{

"name":<string>,

"group" : <string>,

"type" : {“template”,”script”},

"configlet\_file" : <file-location>

}

### Response Body:

{

"id":<integer>,

"name":<string>,

"group" : <string>,

"type" : {“template”,”script”},

"configlet\_file" : <file-location>

}

## GET

### URL: [http://BASE\_URL/api/configlet/{id}](http://BASE_URL/api/configlet/%7bid%7d)

### Response Body:

{

"id":<integer>,

"name":<string>,

"group" : <string>,

"type" : {“template”,”script”},

"configlet\_file" : <file-location>,

"parameter\_list" : [“instance\_name”,….]

}

## GET ALL

### URL: <http://BASE_URL/api/configlet/>

### Response Body:

[

{

"id":<integer>,

"name":<string>,

"group" : <string>,

"type" : {“template”,”script”},

"parameter\_list" : [“instance\_name”,….]

},

{

"id":<integer>,

"name":<string>,

"group" : <string>,

"type" : {“template”,”script”},

"parameter\_list" : [“instance\_name”,….]

}

]

## Delete:

### URL: [http://BASE\_URL/api/configlet/{id}](http://BASE_URL/api/configlet/%7bid%7d)

# Configuration

## POST & PUT

### URL: <http://BASE_URL/api/configuration/>

### BODY:

{

"name":<string>,

"submit" : Bool(True/False),

"construct\_list" :

[

{

“construct\_type”:{“append\_configlet”,”append\_script”},

“configlet\_id”:<integer>,

“parameter\_list”:

[

{

“parameter\_name”:<string>,

“parameter\_type”:{“Instance”,”Collection”,”Value”},

“parameter\_value”: {“<string>”, <collection id>}

}

]

}

]

}

### Response Body:

{

“id” : <integer>

"name":<string>,

"submit" : Bool(True/False),

"construct\_list" :

[

{

“construct\_type”:{“append\_configlet”,”append\_script”},

“configlet\_id”:<integer>,

“parameter\_list”:

[

{

“parameter\_name”:<string>,

“parameter\_type”:{“Instance”,”Collection”,”Value”},

“parameter\_value”: {“<string>”, <collection id>}

}

]

}

]

}

### Example

{

"name": “baseleaf”,

"submit" : True,

"construct\_list" :

[

{

“construct\_type”: “append\_configlet”,

“configlet\_id”: 1,

“parameter\_list”:

[

{

“parameter\_name”: “VPC\_DOMAIN\_ID”,

“parameter\_type”: “Collection”,

“parameter\_value”: <collection id>

},

{

“parameter\_name”: “VPC\_PEER\_DEST”,

“parameter\_type”: “Instance”,

“parameter\_value”: “VPC\_PEER\_DEST”

},

{

“parameter\_name”: “MGMT\_IP”,

“parameter\_type”: “Value”,

“parameter\_value”: “12.14.15.16”

}

]

}

]

}

## GET

### URL: [http://BASE\_URL/api/configuration/{id}](http://BASE_URL/api/configuration/%7bid%7d)

### Response Body:

{

“id” : <integer>

"name":<string>,

"submit" : Bool(True/False),

"construct\_list" :

[

{

“construct\_type”:{“append\_configlet”,”append\_script”},

“configlet\_id”:<integer>,

“parameter\_list”:

[

{

“parameter\_name”:<string>,

“parameter\_type”:{“Instance”,”Collection”,”Value”},

“parameter\_value”: {“<string>”, <collection id>}

}

]

}

]

}

## GET ALL

### URL: <http://BASE_URL/api/configuration/>

### Response Body:

[

{

“id” : <integer>

"name":<string>,

"submit" : Bool(True/False),

"construct\_list" :

[

{

“construct\_type”:{“append\_configlet”,”append\_script”},

“configlet\_id”:<integer>,

“parameter\_list”:

[

{

“parameter\_name”:<string>,

“parameter\_type”:{“Instance”,”Collection”,”Value”},

“parameter\_value”: {“<string>”, <collection id>}

}

]

}

]

}

]

## Delete:

### URL: [http://BASE\_URL/api/configuration/{id}](http://BASE_URL/api/configuration/%7bid%7d)