

ESC REST API

ESC REST Northbound API Documentation

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Resources managed by ESC REST

- Tenants
- Networks
- Subnets
- Flavors
- Images
- Volumes
- Routers
- Deployments

Behavior of ESC REST operations

GET operations are synchronous the request/response parameters are described with an example of a request/response

POST, DELETE, and PUT operations are asynchronous. The asynchronous design use the “web hooks” approach using two independent “one-way” invocations - one to start a long-running operation (Client to ESC) and the other one to notify a requester that it is completed (ESC to client)

ESC REST API Headers/Path/Body Parameters

Callbacks

One of the header parameters of the operation request will contain a callback field, whose value is a URI where the client expects a callback. If this field is not present, no callback will be performed.

When the operation has completed (either successfully or unsuccessfully), ESC will perform a POST request to the callback URI, with an entity body containing the resource for this operation. The status will be returned in the HTTP header called esc-status-code and the status message will be returned in the HTTP header called esc-status-message.

ESC Clients can match a completion report back to the original request by comparing the value of the HTTP header called esc-transaction-id to the one returned in the initial status response.

ESC Clients are expected to provide a REST implementation for all the callbacks.

Media Type

All POST, DELETE, and PUT operations that require request and/or response body must provide a header parameter for media type. Note, that ESC is currently tested to accept and return XML.

Internal IDs

In some of the ESC REST API, there is a path parameter called "*_internal_id" where the asterisk is replaced by the resource type. ESC Clients must provide an internal id for its resource it wants to create. The internal ids are enforced so the ESC Clients are able to refer to them in future operations such as GET, PUT, or DELETE requests.

It is recommended that the ESC Client generated internal ids within the scope of the ESC.

NOTE: Reusing (recycling) of internal ids is not recommended. This practice can lead to confusion in trouble shooting.

Body

In some of the POST, PUT, and DELETE requests you are required to provide a JSON/XML body. Depending on the resource, you will need to provide certain fields in the body to successfully execute a request. Check the body section for each API (bottom of page) to see what fields are supported.

String Restrictions in Body/Internal IDs

Body

Some string parameters/fields, such as id, name, are restricted by the underlying cloud provider, such as Openstack. The allowable range for these parameters is included in the Create section for each resource, in this notation: String minimum-length .. maximum length, for example, for Tenant name: String 1 .. 64

Generally, names are either 1..64 (for Tenant/User) or 1..255 (for Network/Subnet/Flavor/Image/VM).

Internal ID

Ids are restricted to 72 characters such as internal_id 1..72 and external_id 1..72.

Internal id naming must conform the standards stated in RFC 3986 Uniform Resource Identifier (URI): Generic Syntax. See sections related to URI encoding, sections 2.2 Reserved Characters and 2.3 Unreserved Characters. ESC will accept an internal id specified in the request URL from the unreserved character set: unreserved = ALPHA / DIGIT / "-" / ":" / "_"

NOTE: the tilde "~" is not supported in the internal id character set.

The internal id received in a request must be unique within the scope of all the domain resources (tenant, network, subnet, service catalog, deployment) For example, you cannot create 2 networks with the same internal_network_id, even if the networks are created under different tenants.

REST API Security

REST Authentication

Overview

ESC REST API uses http basic access authentication where the ESC client will have to provide a username and password when making ESC REST requests. The user name and password will be encoded with Base64 in transit, but not encrypted or hashed. HTTPS will be used in conjunction with Basic Authentication to provide the encryption.

Setup

By default, the REST authentication is disabled. To enable it pass the argument `--enable-https-rest` and/or `--enable-http-rest` and `--user_rest_pass admin:<password>` to ESC bootvm.py, ESC installation script.

Username and Password

The REST interface has only one default username/password (admin credentials).

The REST password can be updated using escadm tool from the ESC VM CLI:

```
$ escadm rest set --username admin --password <password>
```

You can also update the password through the REST API:

[http://\[ESC_VM_IP\]:8080/ESCManger/v0/authentication/setpassword?](http://[ESC_VM_IP]:8080/ESCManger/v0/authentication/setpassword?)
userName=yourUsername&password=yourPassword

Sending an Authorized Request

To send an authorized request an ESC client should send the request with the following header:

```
Authorization: Basic <hashed-pass>
```

where is the Base64 enconded string of the default username/password

Most libraries and web clients have an interface for simply providing the username/password and the app will encode the username/password and add the HTTP Basic Auth header.

Example using the default admin credentials:

```
http://[ESC_VM_IP]:8080/ESCManager/v0/tenants/
```

Headers:

```
Content-Type    application/xml  
Authorization   Basic <hashed-pass>
```

RESTHttps Support

Overview

ESC supports https communication over port 8443. ESC will generate a self-signed certificate that the client will need to trust to get the https communication going.

Setup

By default, the REST https is disabled and restricted to localhost. To enable it pass the argument --enable-https-rest to ESC bootvm.py, ESC installation script.

HA Considerations

In an HA setup every ESC HA VM will have its own self-signed generated certificate. Upon an HA switchover, ESC north bound client will be required to re-accept the new certificate it will be served.

REST API List

01-Tenants : Manage ESC tenants

GET

/v0/tenants

Get all tenants

Implementation Notes

All tenants in ESC will be returned as a List

Response Class (Status 200)

Model | Model Schema

```
[  
  {  
    "internal_tenant_id": "string",  
    "external_tenant_id": "string",  
    "name": "string",  
    "enabled": true,  
    "vim_mapping": true,  
    "extensions": {  
      "extension": [  
        {  
          "name": "string",  
          "properties": {  
            "property": [  
              {  
                "value": "string"  
              }  
            ]  
          }  
        }  
      ]  
    }  
  }  
]
```

```

        {
            "name": "string",
            "value": "string"
        }
    ],
},
"containers": {
    "container": [
        {
            "name": "string",
            "properties": {
                "property": [
                    {
                        "name": "string",
                        "value": "string"
                    }
                ]
            }
        }
    ]
},
"event_type": "CREATE_TENANT",
"managed_resource": true
}
]

```

Response Content Type

DELETE /v0/tenants/{internal_tenant_id}

Delete a tenant from ESC

Implementation Notes

Delete a tenant from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------------|---|--|----------------|-----------|
| Callback | <input type="text" value="(required)"/> | Callback URL for ESC notifications | header | string |
| internal_tenant_id | <input type="text" value="required"/> | Internal tenant ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------------------|----------------|---------|
| 200 | Tenant deletion request accepted | | |
| 400 | Invalid Request | | |
| 404 | Invalid Tenant Id | | |
| Try it out! | | | |

GET /v0/tenants/{internal_tenant_id} Get a tenant by its name

Implementation Notes

Only tenants created using ESC will be checked

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------|------------|--|----------------|-----------|
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-------------------------------------|----------------|---------|
| 200 | Get request accepted | | |
| 404 | Invalid Request - Invalid Tenant ID | | |
| Try it out! | | | |

POST /v0/tenants/{internal_tenant_id} Create a tenant in ESC

Implementation Notes

Creates a tenant which will be managed by ESC and can be used for creating other resources under it. Example request:

```
POST /v0/tenants/tentest HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Body:
<tenant xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
```

```
<name>example-tenant</name>
<managed_resource>true</managed_resource>
</tenant>
```

After the tenant creation operation is done, ECS will send a callback to the client with the result. Example callback:

```
HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Tenant successfully created
<tenant xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <enabled>true</enabled>
  <event_type>CREATE_TENANT</event_type>
  <external_tenant_id>484c620285ea4f588227ff3396215980</external_tenant_id>
  <internal_tenant_id>tentest</internal_tenant_id>
  <name>example-tenant</name>
  <managed_resource>true</managed_resource>
</tenant>
```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|-------|-------------|----------------|-----------|
|-----------|-------|-------------|----------------|-----------|

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------------|------------|---|----------------|---|
| body | (required) | Tenant configuration payload | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "internal_tenant_id": "string", "external_tenant_id": "string", "name": "string", "enabled": true, "vim_mapping": true, "extensions": { "extension": [{ "name": "string", "properties": { "property": [{ "name": "string", "value": "string" }] }, "containers": { "container": [{ "name": "string", "properties": { "property": [{ "name": "string", "value": "string" }] } }] } }], "event_type": "CREATE_TENANT", "managed_resource": true } }</pre> |
| | | Parameter content type: | | application/xml ▾ |
| | | | | Click to set as parameter value |
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |
| Response Messages | | | | |

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|----------------------------------|----------------|---------|
| 200 | Tenant creation request accepted | | |
| 400 | Invalid Request | | |
| 409 | Conflicting Request | | |

Try it out!

PUT

/v0/tenants/{internal_tenant_id}

Update a tenant from ESC

Implementation Notes

Update a tenant from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|-------|-------------|----------------|-----------|
| | | | | |

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------------|------------|--|----------------|--|
| body | (required) | Tenant payload | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "internal_tenant_id": "string", "external_tenant_id": "string", "name": "string", "enabled": true, "vim_mapping": true, "extensions": { "extension": [{ "name": "string", "properties": { "property": [{ "name": "string", "value": "string" }] }, "containers": { "container": [{ "name": "string", "properties": { "property": [{ "name": "string", "value": "string" }] } }] } }], "event_type": "CREATE_TENANT", "managed_resource": true } }</pre> <p>Click to set as parameter value</p> |
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|--------------------------------|----------------|---------|
| 200 | Tenant update request accepted | | |
| 400 | Invalid Request | | |
| 404 | Invalid Tenant Id | | |
| 500 | Internal Server Error | | |
| Try it out! | | | |

02-Networks : Manage ESC networks

DELETE /v0/{internalTenantId}/networks/{internalNetworkId} Delete a network from an existing tenant in ESC

Implementation Notes

Delete a network from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalNetworkId | (required) | Internal network ID (max length 72 characters) | path | string |
| internalTenantId | (required) | Internal tenant ID of the network (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |
| 500 | Internal server error | | |
| Try it out! | | | |

GET /v0/{internalTenantId}/networks/{internalNetworkId} Get a network by its tenant and internal network ID

Implementation Notes

Only networks created using ESC will be checked

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------------|------------|---|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the network (max length 72 characters) | path | string |
| internalNetworkId | (required) | Internal network ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Network Id not found | | |
| Try it out! | | | |

POST /v0/{internalTenantId}/networks/{internalNetworkId} [Create a network under an existing tenant in ESC](#)

Implementation Notes

Create a network in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalTenantId | (required) | Internal tenant ID of the network (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------------|------------|---|----------------|---|
| internalNetworkId | (required) | Internal network ID (max length 72 characters) | path | string |
| body | (required) | Network configuration payload | body | <p>Model Model Schema</p> <pre>{ "locator": { "vim_id": "string", "vim_type": "OPENSTACK", "vim_project": "string", "vim_project_id": "string", "vim_region": "string", "vim_vdc": "string" }, "vimNetName": "string", "internal_tenant_id": "string", "internal_network_id": "string", "internal_deployment_id": "string", "name": "string", "shared": true, "external_tenant_id": "string", "tenant_name": "string", "external_network_id": "string", "subnet": ["string"], "admin_state_up": true, "locators": { "datacenter": "string", "switch_name": "string" }, "event_type": "CREATE_NETWORK", "switch_name": "string", "provider_segmentation_id": "string", "router_external": true, "provider_physical_network": "string", "provider_network_type": "string", "vlan_id": 0, "number_of_ports": 0 }</pre> |

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------|----------------|---------|
| 404 | Network Id not found | | |
| 409 | Conflicting request | | |
| 503 | Unable to query VIM | | |
| Try it out! | | | |

| | | |
|-----|---------------------------------|---------------------------------|
| GET | /v0/{internalTenantId}/networks | Get all networks under a tenant |
|-----|---------------------------------|---------------------------------|

Implementation Notes

All networks under that tenant in ESC will be returned as a List

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|------------------|------------|--|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the network (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| Try it out! | | | |

03-Subnets : Manage ESC subnets

| | | |
|-----|--------------------------------|---------------------------------|
| GET | /v0/{internalTenantId}/subnets | Get all subnets under a network |
|-----|--------------------------------|---------------------------------|

Implementation Notes

All subnet under that network in ESC will be returned as a List

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------|-------|--|----------------|-----------|
| internalNetworkId | | Internal network ID of the subnet (max length 72 characters) | header | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the subnet (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Not found | | |
| Try it out! | | | |

| | | |
|---------------|---|--|
| DELETE | /v0/{internalTenantId}/subnets/{internalSubnetId} | Delete a subnet from an existing tenant in ESC |
|---------------|---|--|

Implementation Notes

Delete a subnet from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalTenantId | (required) | Internal tenant ID of the subnet (max length 72 characters) | path | string |
| internalSubnetId | (required) | Internal subnet ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 404 | Not found | | |
| 500 | Internal server error | | |
| Try it out! | | | |

GET

/v0/{internalTenantId}/subnets/{internalSubnetId}

Get a subnet by its tenant and internal subnet ID

Implementation Notes

Only subnets created using ESC will be checked

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the subnet (max length 72 characters) | path | string |
| internalSubnetId | (required) | Internal subnet ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Not found | | |
| Try it out! | | | |

POST /v0/{internalTenantId}/subnets/{internalSubnetId} Create a subnet under an existing tenant in ESC

Implementation Notes

Create a subnet in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalTenantId | (required) | Internal tenant ID of the subnet (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|---|
| internalSubnetId | (required) | Internal subnet ID (max length 72 characters) | path | string |
| body | (required) | Subnet configuration payload | body | <p>Model Model Schema</p> <pre>{ "networkFromCdg": { "locator": { "vim_id": "string", "vim_type": "OPENSTACK", "vim_project": "string", "vim_project_id": "string", "vim_region": "string", "vim_vdc": "string" }, "vimNetName": "string", "internal_tenant_id": "string", "internal_network_id": "string", "internal_deployment_id": "string", "name": "string", "shared": true, "external_tenant_id": "string", "tenant_name": "string", "external_network_id": "string", "subnet": ["string"], "admin_state_up": true, "locators": { "datacenter": "string", "switch_name": "string" }, "event_type": "CREATE_NETWORK", "switch_name": "string", "provider_segmentation_id": "string", "router_external": true, "provider_physical_network": "string", "provider_network_type": "string", "vlan_id": 0, "number_of_ports": 0 }, "internal_tenant_id": "string", "external_tenant_id": "string", "internal_network_id": "string", "external_network_id": "string", "internal_subnet_id": "string", "external_subnet_id": "string", "name": "string", "allocation_pools": [{ "start": "string", "end": "string" }] }</pre> |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|-------|-------------|----------------|---|
| | | | | <pre> "end": "string" }], "gateway_ip": "string", "ip_version": 0, "cidr": "string", "enable_dhcp": true, "event_type": "CREATE_SUBNET" } </pre> |

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 404 | Not found | | |
| 409 | Conflicting Request | | |
| 500 | Internal server error | | |

Try it out!

04-Images : Manage ESC images

| DELETE | /v0/images/{internalImageId} | Delete an image from ESC | | |
|-----------------------------|------------------------------|---|----------------|-----------|
| Implementation Notes | | | | |
| Delete an image from ESC | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalImageId | (required) | Internal image ID (max length 72 characters) | path | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Request accepted | | | |

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 400 | Invalid Request | | |
| 500 | Internal server error | | |
| Try it out! | | | |

| GET | /v0/images/{internalImageId} | Get the image by the internal image ID | | |
|---|------------------------------|---|----------------|-----------|
| Implementation Notes | | | | |
| Images not created by ESC will not be checked | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| internalImageId | (required) | Internal image ID (max length 72 characters) | path | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Request accepted | | | |
| 400 | Invalid Request | | | |
| 404 | Image Id not found | | | |
| Try it out! | | | | |

| POST | /v0/images/{internalImageId} | Create an image in ESC |
|--|------------------------------|------------------------|
| Implementation Notes | | |
| Creates an Image(Template) which will be managed by ESC and can be used for creating instance VMs. An optional properties list can be included in the image creation payload. This is only supported for creation of images on openstack. Image properties will be stored in openstack as image metadata. Property name and values are not validated by ESC. | | |
| Example 1 create image request (without properties): | | |
| <pre>POST /v0/images/my_image_id HTTP/1.1 Content-Type: application/xml Accept: application/xml Callback: http://127.0.0.1:9010/ Body:</pre> | | |

```

<?xml version="1.0"?>
<image xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>uLinuxImg</name>
    <src>http://VAR_FILE_SERVER_IP/share/images/myULinux.qcow2</src>
    <disk_bus>virtio</disk_bus>
</image>

```

Example 2 create image request with properties:

```

POST /v0/images/my_image_id HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Body:

<?xml version="1.0"?>
<image xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>uLinuxImg</name>
    <src>http://VAR_FILE_SERVER_IP/share/images/myULinux.qcow2</src>
    <disk_bus>virtio</disk_bus>
    <properties>
        <property>
            <name>os_secure_boot</name>
            <value>enabled</value>
        </property>
        <property>
            <name>hw_rng_model</name>
            <value>virtio</value>
        </property>
        <property>
            <name>hw_vif_multiqueue_enabled</name>
            <value>true</value>
        </property>
    </properties>
</image>

```

Example 3 create image with properties Use of image properties allow flexible assignment of image metadata, such as hw_disk_bus and hw_vif_model. This extends current limitation of ESC schema with disk_bus := ide | scsi | virtio and e1000_net := true | false and virtio_net := true | false.

```

POST /v0/images/my_image_id HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Body:

<?xml version="1.0"?>
<image xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>uLinuxImg</name>

```

```

<src>http://VAR_FILE_SERVER_IP/share/images/myULinux.qcow2</src>
<disk_bus>virtio</disk_bus>
<properties>
  <property>
    <name>hw_disk_bus</name>
    <value>pcnet</value>
  </property>
  <property>
    <name>hw_vif_model</name>
    <value>pcnet</value>
  </property>
</properties>
</image>

```

After the Image creation operation is done, ESC will send a callback to the client with the result.

Example callback:

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Image successfully created

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<image xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <disk_bus>virtio</disk_bus>
  <e1000_net>false</e1000_net>
  <event_type>CREATE_IMAGE</event_type>
  <external_image_id>5021843b-fcc5-2c1b-8fc4-935147f95872</external_image_id>
  <external_tenant_id>SystemAdminTenantId</external_tenant_id>
  <imageisenabled>true</imageisenabled>
  <name>uLinuxImg</name>
  <internal_image_id>my_image_id</internal_image_id>
  <internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
  <visibility>public</visibility>
  <src>http://VAR_FILE_SERVER_IP/share/images/myULinux.qcow2</src>
</image>

```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|------------------------------------|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|--|------------|---|----------------|-----------|
| internalImageId | (required) | Internal image ID (max length 72 characters) | path | string |
| body | (required) | ESC datamodel with the image to create | body | string |
| Parameter content type: application/xml ▾ | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 409 | Conflicting Request | | |
| 500 | Internal server error | | |
| Try it out! | | | |

GET

/v0/images

[Get all images](#)

Implementation Notes

All images created in ESC will be returned as a List

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| Try it out! | | | |

05-Flavors : Manage ESC flavors

DELETE

/v0/flavors/{internalFlavorId}

[Delete a flavor from ESC](#)

Implementation Notes

Delete a flavor from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalFlavorId | (required) | Internal flavor ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Flavor Id not found | | |
| 500 | Internal server error | | |
| Try it out! | | | |

GET /v0/flavors/{internalFlavorId} Get the flavor by the internal flavor ID

Implementation Notes

Flavors not created by ESC will not be checked

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| internalFlavorId | (required) | Internal flavor ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|--|----------------|---------|
| 200 | Request accepted | | |
| 404 | Flavor Id not found | | |
| 406 | Operation not supported on VIM/Flavor part of service registration | | |
| Try it out! | | | |

POST /v0/flavors/{internalFlavorId} Create a flavor in ESC

Implementation Notes

Creates a Flavor which could be used for creating instance VMs.

Example request:

```
POST /v0/flavors/my_flavor_id HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Body:
<?xml version="1.0"?>
<flavor xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <name>lightVMFlavor</name>
    <vcpus>2</vcpus>
    <memory_mb>2048</memory_mb>
</flavor>
```

After the Flavor creation operation is done, ESC will send a callback to the client with the result.

Example callback:

```
HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Flavor creation completed successfully created
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<flavor xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
    <ephemeral_disk_mb>0</ephemeral_disk_mb>
    <event_type>CREATE_FLAVOR</event_type>
    <external_flavor_id>fb63c114-de1a-40d8-abae-fa6011abd150</external_flavor_id>
    <name>lightVMFlavor</name>
    <internal_flavor_id>my_flavor_id</internal_flavor_id>
    <memory_mb>2048</memory_mb>
    <vcpus>2</vcpus>
</flavor>
```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalFlavorId | (required) | Internal flavor ID (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|---|------------|--|----------------|-----------|
| body | (required) | ESC datamodel with the flavor to create | body | string |
| Parameter content type: <input type="button" value="application/xml ▾"/> | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 404 | Flavor Id not found | | |
| 406 | Operation not supported on VIM/Flavor part of service registration | | |
| 409 | Conflicting Request | | |
| 500 | Internal server error | | |

| GET | /v0/flavors | Get all flavors | | | | | | | | |
|---|------------------|-----------------|------------------|--------|----------------|---------|-----|------------------|--|--|
| Implementation Notes All flavors created in ESC will be returned as a List | | | | | | | | | | |
| Response Messages | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>HTTP Status Code</th><th>Reason</th><th>Response Model</th><th>Headers</th></tr> </thead> <tbody> <tr> <td>200</td><td>Request accepted</td><td></td><td></td></tr> </tbody> </table> | | | HTTP Status Code | Reason | Response Model | Headers | 200 | Request accepted | | |
| HTTP Status Code | Reason | Response Model | Headers | | | | | | | |
| 200 | Request accepted | | | | | | | | | |

06-Deployments : Manage ESC deployments

| | | |
|--|-----------------|----------------------|
| GET | /v0/deployments | Find all deployments |
| Implementation Notes All deployments created in ESC will be returned as a List | | |

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|----------------------|-------------|----------------|-----------|
| Accept | <input type="text"/> | | header | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |

[Try it out!](#)

DELETE /v0/deployments/{internal_deployment_id}

Delete a deployment from ESC

Implementation Notes

Delete a deployment from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|------------------------|---------------------------------|--|----------------|-----------|
| Callback | <input type="text"/> (required) | Callback URL for ESC notifications | header | string |
| internal_deployment_id | <input type="text"/> (required) | Internal ID of the deployment (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 404 | Deployment Id not found | | |

[Try it out!](#)

GET /v0/deployments/{internal_deployment_id}

Find a deployment by its internal ID

Implementation Notes

A deployment will be returned if found in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------------|---------------------------------|---|----------------|-----------|
| Accept | <input type="text"/> | | header | string |
| internal_deployment_id | (required) <input type="text"/> | Internal ID of the deployment (max length 1024 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Deployment Id not found | | |

[Try it out!](#)

POST /v0/deployments/{internal_deployment_id} Creates a deployment

Implementation Notes

Creates a Simple deployment of Instance VMs.

NOTE: As deployment requirements vary a lot, please see ESC User guide for datamodel excerpts of specific functionality you may desire that's not displayed in the simple example below.

Example request:

```
POST /v0/deployments/my_dep_id HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Callback-ESC-Events: http://127.0.0.1:9010/
```

Body:

```
<esc_datamodel xmlns="http://www.cisco.com/esc/esc" xmlns:ns2="urn:ietf:params:xml:ns:netconf:notification:1
<tenants>
  <tenant>
    <name>admin</name>
    <deployments>
      <deployment>
        <name>MyDemoDepName</name>
        <vm_group>
          <name>ASA-1</name>
          <bootup_time>300</bootup_time>
          <reboot_time>100</reboot_time>
          <recovery_wait_time>10</recovery_wait_time>
          <image>ASA</image>
```

```
<interfaces>
  <interface>
    <nivid>1</nivid>
    <network>MgtNetwork</network>
    <ip_address>18.0.0.16</ip_address>
  </interface>
</interfaces>
<scaling>
  <min_active>1</min_active>
  <max_active>1</max_active>
  <elastic>true</elastic>
  <static_ip_address_pool>
    <network>MgtNetwork</network>
    <ip_address>18.0.0.16</ip_address>
  </static_ip_address_pool>
</scaling>
<kpi_data>
  <kpi>
    <event_name>VM_ALIVE</event_name>
    <metric_value>1</metric_value>
    <metric_cond>GT</metric_cond>
    <metric_type>UINT32</metric_type>
    <metric_collector>
      <type>ICMPPing</type>
      <nivid>1</nivid>
      <poll_frequency>3</poll_frequency>
      <polling_unit>seconds</polling_unit>
      <continuous_alarm>false</continuous_alarm>
    </metric_collector>
  </kpi>
</kpi_data>
<rules>
  <admin_rules>
    <rule>
      <event_name>VM_ALIVE</event_name>
      <action>"ALWAYS log"</action>
      <action>"TRUE esc_vm_alive_notification"</action>
    </rule>
  </admin_rules>
</rules>
<config_data>
  <configuration>
    <dst>day0-config</dst>
    <file>http://MY_FILE_SERVER_IP:/share/images/day0-configASAv</file>
  </configuration>
  <configuration>
    <dst>idtoken</dst>
    <file>http://MY_FILE_SERVER_IP:/share/images/asa-smart.config</file>
  </configuration>
</config_data>
<placement>
  <type>zone_host</type>
```

```

<zone>MY_CLUSTER1</zone>
</placement>
<volumes>
  <volume>
    <name>MY_DATASTORE1</name>
    <volid>1</volid>
  </volume>
</volumes>
</vm_group>
</deployment>
</deployments>
</tenant>
</tenants>
</esc_datamodel>

```

While the Deployment operation is being processed successfully, ESC will send a VM_DEPLOYED callback for each VM created on the VIM as part of this deployment

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: VM Deployed

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <datacenter>
    <default>false</default>
  </datacenter>
  <deployment_details>
    <host_uuid>host-14882</host_uuid>
    <host_name>10.85.103.13</host_name>
    <vm_uuid>50217d2d-8afb-41c2-cffd-d76b1239f51d</vm_uuid>
    <interfaces>
      <interface>
        <network_uuid>MgtNetwork</network_uuid>
        <ip_address>18.0.0.16</ip_address>
        <mac_address>00:50:56:a1:6a:12</mac_address>
        <nic_id>1</nic_id>
        <port_forwarding></port_forwarding>
        <port_uuid></port_uuid>
        <security_groups></security_groups>
        <subnet_uuid></subnet_uuid>
        <type>virtual</type>
      </interface>
    </interfaces>
    <vm_group_name>ASA-1</vm_group_name>
    <vm_name>Sanity-vmware-de_ASA-1_0_b323effd-7f70-4055-b11e-0ef66f0a758d</vm_name>
    <vm_state_machine_state>VM_INERT_STATE</vm_state_machine_state>
  </deployment_details>

```

```

<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>VM_DEPLOYED</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_DEPLOYING_STATE</service_state_machine_state>
</deployment>

```

While the Deployment operation is being processed successfully, ESC will send a VM_ALIVE callback for each monitorable/pingable VM created on the VIM as part of this deployment

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: VM_Alive event received, VM ID: [Sanity-vmware-de_ASA-1_0_b323effd-7f70-4055-b11e-0ef66f

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <datacenter>
    <default>false</default>
  </datacenter>
  <deployment_details>
    <host_uuid>host-14882</host_uuid>
    <host_name>10.85.103.13</host_name>
    <vm_uuid>50217d2d-8afb-41c2-cffd-d76b1239f51d</vm_uuid>
    <interfaces>
      <interface>
        <network_uuid>MgtNetwork</network_uuid>
        <ip_address>18.0.0.16</ip_address>
        <mac_address>00:50:56:a1:6a:12</mac_address>
        <níc_id>1</níc_id>
        <port_forwarding></port_forwarding>
        <port_uuid></port_uuid>
        <security_groups></security_groups>
        <subnet_uuid></subnet_uuid>
        <type>virtual</type>
      </interface>
    </interfaces>
    <vm_group_name>ASA-1</vm_group_name>
    <vm_name>Sanity-vmware-de_ASA-1_0_b323effd-7f70-4055-b11e-0ef66f0a758d</vm_name>
    <vm_state_machine_state>VM_ALIVE_STATE</vm_state_machine_state>
  </deployment_details>
  <deployment_name>MyDemoDepName</deployment_name>
  <deployment_stage>VM_ALIVE</deployment_stage>
  <external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
  <external_tenant_id>SystemAdminTenantId</external_tenant_id>
  <internal_deployment_id>my_dep_id</internal_deployment_id>
  <internal_tenant_id>SystemAdminTenantId</internal_tenant_id>

```

```

<service_state_machine_state>SERVICE_INSERT_STATE</service_state_machine_state>
</deployment>

```

After the Deployment operation is done, ESC will send a SERVICE_ALIVE callback to the client with the result.

Example callback:

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Service group deployment completed successfully!

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <datacenter>
    <default>false</default>
  </datacenter>
  <deployment_name>MyDemoDepName</deployment_name>
  <deployment_stage>SERVICE_ALIVE</deployment_stage>
  <external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
  <external_tenant_id>SystemAdminTenantId</external_tenant_id>
  <internal_deployment_id>my_dep_id</internal_deployment_id>
  <internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
  <service_state_machine_state>SERVICE_ACTIVE_STATE</service_state_machine_state>
</deployment>

```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for ESC event notifications | header | string |
| internal_deployment_id | (required) | Internal ID of the deployment (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|--|----------------------------------|--------------------------------|----------------|-----------|
| body | (required) | ESC datamodel to deploy | body | string |
| Parameter content type: | | | | |
| <input type="button" value="application/xml ▾"/> | | | | |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Request accepted | | | |
| 400 | Invalid Request | | | |
| 404 | An associated resource not found | | | |
| 406 | Not Acceptable | | | |
| 409 | Conflicting Request | | | |
| 500 | Internal server error | | | |
| 503 | Failed to query VIM | | | |
| <input type="button" value="Try it out!"/> | | | | |

PUT /v0/deployments/{internal_deployment_id} Update an existing deployment in ESC

Implementation Notes

Updates an existing deployment. Updates could be addition or removal of VM groups, interfaces, networks, KPIs and Rules, Day 0 config.

After the service update operation is done, ESC will send a callback to the client with the result.

Example request of adding VM group:

```
PUT /v0/deployments/my_dep_id HTTP/1.1
Content-Type: application/xml
Accept: application/xml
Callback: http://127.0.0.1:9010/
Callback-ESC-Events: http://127.0.0.1:9010/
```

Body:

```
<esc_datamodel xmlns:ns2="urn:ietf:params:xml:ns:netconf:notification:1.0" xmlns="http://www.cisco.com/e
<tenants>
<tenant>
```

```
<name>admin</name>
<deployments>
<deployment>
<name>MyDemoDepName</name>
<vm_group>
<name>ASA-1</name>
<bootup_time>300</bootup_time>
<recovery_wait_time>0</recovery_wait_time>
<image>ASA</image>
<interfaces>
<interface>
<nicid>1</nicid>
<network>MgtNetwork</network>
<ip_address>18.0.0.16</ip_address>
</interface>
</interfaces>
<scaling>
<min_active>1</min_active>
<max_active>1</max_active>
<elastic>true</elastic>
<static_ip_address_pool>
<network>MgtNetwork</network>
<ip_address>18.0.0.16</ip_address>
</static_ip_address_pool>
</scaling>
<kpi_data>
<kpi>
<event_name>VM_ALIVE</event_name>
<metric_value>1</metric_value>
<metric_cond>GT</metric_cond>
<metric_type>UINT32</metric_type>
<metric_collector>
<type>ICMPPing</type>
<nicid>1</nicid>
<poll_frequency>3</poll_frequency>
<polling_unit>seconds</polling_unit>
<continuous_alarm>false</continuous_alarm>
</metric_collector></kpi>
</kpi_data>
<rules>
<admin_rules>
<rule>
<event_name>VM_ALIVE</event_name>
<action>"ALWAYS log"</action>
<action>"TRUE esc_vm_alive_notification"</action>
</rule>
</admin_rules>
</rules>
<config_data>
<configuration>
<dst>day0-config</dst>
```

```
<file>http://MY_FILE_SERVER_IP:/share/images/day0-configASAv</file>
</configuration>
<configuration>
  <dst>idtoken</dst>
  <file>http://MY_FILE_SERVER_IP:/share/images/asa-smart.config</file>
</configuration>
</config_data>
<placement>
  <type>zone_host</type>
  <zone>MY_CLUSTER1</zone>
</placement>
<volumes>
  <volume>
    <name>MY_DATASTORE1</name>
    <volid>1</volid>
  </volume>
</volumes>
</vm_group>
<name>CSR-1</name>
<bootup_time>300</bootup_time>
<recovery_wait_time>0</recovery_wait_time>
<image>ASA</image>
<interfaces>
  <interface>
    <nicid>1</nicid>
    <network>MgtNetwork</network>
    <ip_address>18.0.0.16</ip_address>
  </interface>
</interfaces>
<scaling>
  <min_active>1</min_active>
  <max_active>1</max_active>
  <elastic>true</elastic>
  <static_ip_address_pool>
    <network>MgtNetwork</network>
    <ip_address>18.0.0.16</ip_address>
  </static_ip_address_pool>
</scaling>
<kpi_data>
  <kpi>
    <event_name>VM_ALIVE</event_name>
    <metric_value>1</metric_value>
    <metric_cond>GT</metric_cond>
    <metric_type>UINT32</metric_type>
    <metric_collector>
      <type>ICMPPing</type>
      <nicid>1</nicid>
      <poll_frequency>3</poll_frequency>
      <polling_unit>seconds</polling_unit>
      <continuous_alarm>false</continuous_alarm>
    </metric_collector></kpi>
  </kpi_data>
</vm>
```

```

</kpi_data>
<rules>
  <admin_rules>
    <rule>
      <event_name>VM_ALIVE</event_name>
      <action>"ALWAYS log"</action>
      <action>"TRUE esc_vm_alive_notification"</action>
    </rule>
  </admin_rules>
</rules>
<config_data>
  <configuration>
    <dst>day0-config</dst>
    <file>http://MY_FILE_SERVER_IP:/share/images/day0-configASAv</file>
  </configuration>
  <configuration>
    <dst>idtoken</dst>
    <file>http://MY_FILE_SERVER_IP:/share/images/asa-smart.config</file>
  </configuration>
</config_data>
<placement>
  <type>zone_host</type>
  <zone>MY_CLUSTER1</zone>
</placement>
<volumes>
  <volume>
    <name>MY_DATASTORE1</name>
    <volid>1</volid>
  </volume>
</volumes>

</deployment>
</deployments>
</tenant>
</tenants>
</esc_datamodel>

```

While the Deployment Update operation is being processed successfully, ESC will send a VM_DEPLOYED callback for each VM created on the VIM as part of this update request.

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: VM Deployed

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<datacenter><default>false</default></datacenter>
<deployment_details>

```

```

<host_uuid>host-14882</host_uuid>
<host_name>10.85.103.13</host_name>
<vm_uuid>50217d2d-8afb-41c2-cffd-d76b1239f51e</vm_uuid>
<interfaces>
<interface>
<network_uuid>MgtNetwork</network_uuid>
<ip_address>18.0.0.17</ip_address>
<mac_address>00:50:56:a1:6a:13</mac_address>
<níc_id>1</níc_id>
<port_forwarding></port_forwarding>
<port_uuid></port_uuid>
<security_groups></security_groups>
<subnet_uuid></subnet_uuid>
<type>virtual</type>
</interface>
</interfaces>
<vm_group_name>CSR-1</vm_group_name>
<vm_name>Sanity-vmware-de_CSR-1_0_b323effd-7f70-4055-b11e-0ef66f0a758d</vm_name>
<vm_state_machine_state>VM_INSERT_STATE</vm_state_machine_state>
</deployment_details>
<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>VM_DEPLOYED</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ad</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_DEPLOYING_STATE</service_state_machine_state>
</deployment>

```

While the Deployment Update operation is being processed successfully, ESC will send a VM_ALIVE callback for each monitorable/pingable VM on the VIM created as part of this update request.

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: VM_Alive event received, VM ID: [Sanity-vmware-de_CSR-1_0_b323effd-7f70-4055-b11e-0ef66f

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<datacenter><default>false</default></datacenter>
<deployment_details>
<host_uuid>host-14882</host_uuid>
<host_name>10.85.103.13</host_name>
<vm_uuid>50217d2d-8afb-41c2-cffd-d76b1239f51e</vm_uuid>
<interfaces>
<interface>
<network_uuid>MgtNetwork</network_uuid>
<ip_address>18.0.0.17</ip_address>
<mac_address>00:50:56:a1:6a:13</mac_address>

```

```

<nic_id>1</nic_id>
<port_forwarding></port_forwarding>
<port_uuid></port_uuid>
<security_groups></security_groups>
<subnet_uuid></subnet_uuid>
<type>virtual</type>
</interface>
</interfaces>
<vm_group_name>CSR-1</vm_group_name>
<vm_name>Sanity-vmware-de_CSR-1_0_b323effd-7f70-4055-b11e-0ef66f0a758d</vm_name>
<vm_state_machine_state>VM_ALIVE_STATE</vm_state_machine_state>
</deployment_details>
<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>VM_ALIVE</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_INSERT_STATE</service_state_machine_state>
</deployment>

```

After the Deployment Update operation is done, ESC will send a SERVICE_UPDATED callback to the client with the result.

Example callback:

```

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Service group update completed successfully

```

```

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<datacenter><default>false</default></datacenter>
<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>SERVICE_UPDATED</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_ACTIVE_STATE</service_state_machine_state>
</deployment>

```

If a VM specific resource like interface, is updated, then a VM_UPDATED followed by a SERVICE_UPDATED notification is received.

Example callback:

HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: VM has been updated successfully. vm: VM ID: [Sanity-vmware-de_CSR-1_0_b323effd-7f70-405

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<datacenter><default>false</default></datacenter>
<deployment_details>
<host_uuid>host-14882</host_uuid>
<host_name>10.85.103.13</host_name>
<vm_uuid>50217d2d-8afb-41c2-cffd-d76b1239f51e</vm_uuid>
<interfaces>
<interface>
<network_uuid>MgtNetwork</network_uuid>
<ip_address>18.0.0.17</ip_address>
<mac_address>00:50:56:a1:6a:13</mac_address>
<nic_id>1</nic_id>
<port_forwarding></port_forwarding>
<port_uuid></port_uuid>
<security_groups></security_groups>
<subnet_uuid></subnet_uuid>
<type>virtual</type>
</interface>
<interface>
<network_uuid>MgtNetwork2</network_uuid>
<ip_address>18.0.1.18</ip_address>
<mac_address>00:50:56:a1:6b:14</mac_address>
<nic_id>2</nic_id>
<port_forwarding></port_forwarding>
<port_uuid></port_uuid>
<security_groups></security_groups>
<subnet_uuid></subnet_uuid>
<type>virtual</type>
</interface>
</interfaces>
<vm_group_name>CSR-1</vm_group_name>
<vm_name>Sanity-vmware-de_CSR-1_0_b323effd-7f70-4055-b11e-0ef66f0a758d</vm_name>
<vm_state_machine_state>VM_ALIVE_STATE</vm_state_machine_state>
</deployment_details>
<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>VM_ALIVE</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_INSERT_STATE</service_state_machine_state>
</deployment>
```

Followed by:

```
HTTP/1.1 201 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: d53f0047-2315-466c-b7e3-aa78e0a567e8
ESC-Status-Code: 200
ESC-Status-Message: Service group update completed successfully
```

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
<datacenter><default>false</default></datacenter>
<deployment_name>MyDemoDepName</deployment_name>
<deployment_stage>SERVICE_UPDATED</deployment_stage>
<external_deployment_id>8d084aab-6a66-4a70-8f47-42b91f7477ac</external_deployment_id>
<external_tenant_id>SystemAdminTenantId</external_tenant_id>
<internal_deployment_id>my_dep_id</internal_deployment_id>
<internal_tenant_id>SystemAdminTenantId</internal_tenant_id>
<service_state_machine_state>SERVICE_ACTIVE_STATE</service_state_machine_state>
</deployment>
```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for ESC event notifications | header | string |
| internal_deployment_id | (required) | Internal ID of the deployment (max length 72 characters) | path | string |
| body | (required) | ESC datamodel to update | body | string |

Parameter content type:

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------------------|----------------|---------|
| 400 | Invalid Request | | |
| 404 | An associated resource not found | | |
| 406 | Not Acceptable | | |
| 409 | Conflicting Request | | |
| 500 | Internal server error | | |
| Try it out! | | | |

GET /v0/deployments/config/{internal_deployment_id} Find deployment configuration data by its internal ID

Implementation Notes

Deployment configuration data will be returned if found in CDB

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|------------------------|------------|--|----------------|-----------|
| internal_deployment_id | (required) | Internal ID of the deployment (max length 1024 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Deployment Id not found | | |

[Try it out!](#)

07-Deployment Operations : Operations to a deployment

POST /v0/{internal_tenant_id}/deployments/service/{internal_deployment_id}

Handle deployment operation request with the operation type as payload

Implementation Notes

Performs actions like stop, start, reboot, disable_monitoring or enable_monitoring on a deployment. Example request:

```

POST /v0/tenants/test-tenant1/deployments/vm/test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788
Content-Type: application/xml
Accept: application/json
Callback: http://127.0.0.1:9010/

Body:
<service_operation xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <operation>stop</operation>
</service_operation>

```

While the stop deployment operation is being performed, ESC will send a VM_STOPPED callback to the client for each VM stopped as part of this request. Example callback:

```

HTTP/1.1 200 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: 5e47b5ff-bc59-4ece-b15b-8941910def74
ESC-Status-Code: 200
ESC-Status-Message: VM successfully stopped

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <datacenter>
    <default>false</default>
  </datacenter>
  <deployment_details>
    <host_uuid>17be6eae40795ec068ce77a05fcb1c47f7ac42dfba160261719d4087</host_uuid>
    <host_name>my-ucs-3</host_name>
    <vm_uuid>cb86a952-c030-46f6-96f6-e81069bcea3a</vm_uuid>
    <interfaces>
      <interface>
        <network_uuid>943fda9e-79f8-400c-b442-3506f102721a</network_uuid>
        <gateway>192.168.0.1</gateway>
        <ip_address>192.168.0.135</ip_address>
        <mac_address>fa:16:3e:3c:17:b0</mac_address>
        <netmask>255.255.255.0</netmask>
        <nic_id>0</nic_id>
        <port_forwarding></port_forwarding>
        <port_uuid>263eaf20-2662-4a6b-a1f1-ed76001a1b5c</port_uuid>
        <security_groups></security_groups>
        <subnet_uuid>e313b95c-ca1f-4c81-8d60-c9e721a85d0b</subnet_uuid>
        <type>virtual</type>
      </interface>
    </interfaces>
    <vm_group_name>overridegrp2</vm_group_name>
    <vm_name>test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788</vm_name>
    <vm_state_machine_state>VM_SHUTOFF_STATE</vm_state_machine_state>
  </deployment_details>
  <deployment_name>test-dep1-cirros</deployment_name>
  <deployment_stage>VM_STOPPED</deployment_stage>
</deployment>

```

```

<external_deployment_id>5c278010-ad0f-4e29-bdce-f4b6c6946c38</external_deployment_id>
<external_tenant_id>29f2cd7934dc4311ad3a34d72d1ab7b8</external_tenant_id>
<internal_deployment_id>test-tenant1test-dep1-cirros</internal_deployment_id>
<internal_tenant_id>test-tenant1</internal_tenant_id>
<service_state_machine_state>SERVICE_STOPPED_STATE</service_state_machine_state>
</deployment>

```

After the stop deployment operation is done successfully, ESC will send a SERVICE_STOPPED callback to the client with the result. Example callback:

```

HTTP/1.1 200 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: 5e47b5ff-bc59-4ece-b15b-8941910def74
ESC-Status-Code: 200
ESC-Status-Message: Service group suspension completed successfully

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<deployment xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <datacenter>
    <default>false</default>
  </datacenter>
  <deployment_details>
    <host_uuid>17be6ae40795ec068ce77a05fc1c47f7ac42dfba160261719d4087</host_uuid>
    <host_name>my-ucs-3</host_name>
    <vm_uuid>cb86a952-c030-46f6-96f6-e81069bcea3a</vm_uuid>
    <interfaces>
      <interface>
        <network_uuid>943fda9e-79f8-400c-b442-3506f102721a</network_uuid>
        <gateway>192.168.0.1</gateway>
        <ip_address>192.168.0.135</ip_address>
        <mac_address>fa:16:3e:3c:17:b0</mac_address>
        <netmask>255.255.255.0</netmask>
        <níc_id>0</níc_id>
        <port_forwarding></port_forwarding>
        <port_uuid>263eaf20-2662-4a6b-a1f1-ed76001a1b5c</port_uuid>
        <security_groups></security_groups>
        <subnet_uuid>e313b95c-ca1f-4c81-8d60-c9e721a85d0b</subnet_uuid>
        <type>virtual</type>
      </interface>
    </interfaces>
    <vm_group_name>overridegrp2</vm_group_name>
    <vm_name>test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788</vm_name>
    <vm_state_machine_state>VM_SHUTOFF_STATE</vm_state_machine_state>
  </deployment_details>
  <deployment_name>test-dep1-cirros</deployment_name>
  <deployment_stage>SERVICE_STOPPED</deployment_stage>
  <external_deployment_id>5c278010-ad0f-4e29-bdce-f4b6c6946c38</external_deployment_id>
  <external_tenant_id>29f2cd7934dc4311ad3a34d72d1ab7b8</external_tenant_id>
  <internal_deployment_id>test-tenant1test-dep1-cirros</internal_deployment_id>
  <internal_tenant_id>test-tenant1</internal_tenant_id>
</deployment>

```

```

<service_state_machine_state>SERVICE_STOPPED_STATE</service_state_machine_state>
</deployment>

```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------------------|------------|---|----------------|---|
| Callback | (required) | Callback URL for header ESC notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for header ESC event notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |
| internal_deployment_id | (required) | Internal deployment ID (max length 72 characters) | path | string |
| body | (required) | Deployment operation payload specifying the type of operation | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "operation": "stop", "properties": {} }</pre> |
| Parameter content type: | | application/xml ▾ | | |
| Click to set as parameter value | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---|----------------|---------|
| 200 | Deployment operation request accepted | | |
| 400 | Missing callback or, Deployment operation is not applicable | | |
| 404 | Deployment or tenant not found | | |

Try it out!

08-VM Operations : Operations to a VM

POST

/v0/{internal_tenant_id}/deployments/recovery-vm/{vm_name}

Handle recovery VM operation request with the operation type as payload

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------|----------------------|---|----------------|--|
| Callback | <input type="text"/> | Callback URL for notifications | header | string |
| Callback-ESC-Events | <input type="text"/> | Callback URL for ESC event notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |
| vm_name | (required) | VM name | path | string |
| body | (required) | Recovery VM operation payload specifying the type of operation: recovery_do | body | <div style="display: flex; align-items: center;"> Model Model Schema </div> <pre>{ "operation": "string", "checkVmBeforeRecovery": true, "properties": {} }</pre> <p>Click to set as parameter value</p> |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---|----------------|---------|
| 200 | Recovery VM operation request accepted | | |
| 400 | Recovery VM operation is not applicable | | |
| 404 | VM or tenant not found | | |

Try it out!

POST

/v0/{internal_tenant_id}/deployments/snapshot-vm/{vm_name}

Handle VM snapshot operation request with the operation type as payload

Implementation Notes

vm_operation_notes

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|----------------------------|------------|--|----------------|--|
| Callback | (required) | Callback URL for notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for ESC event notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |
| vm_name | (required) | VM name | path | string |
| body | (required) | VM operation payload specifying the type of operation | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "bootableVolumeSnapshotId": "string", "operation": "snapshot", "name": "string", "id": "string", "metadata": {} }</pre> <p>Click to set as parameter value</p> |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---|----------------|---------|
| 201 | VM snapshot operation request accepted | | |
| 400 | Missing callback or, VM operation is not applicable | | |
| 404 | VM or tenant not found | | |

Try it out!

POST /v0/{internal_tenant_id}/deployments/vm/{vm_name}

Handle VM operation request with the operation type as payload

Implementation Notes

Performs actions like stop, start, reboot, disable_monitoring or enable_monitoring on an existing VM managed by ESC. Example request:

```

POST /v0/tenants/test-tenant1/deployments/vm/test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788
Content-Type: application/xml
Accept: application/json
Callback: http://127.0.0.1:9010/
Callback-ESC-Events: http://127.0.0.1:9010/

Body:
<vm_operation xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <operation>stop</operation>
</vm_operation>

```

After the VM stop operation is done, ESC will send a VM_STOP_COMPLETE callback to the client with the result. Example callback:

```

HTTP/1.1 200 OK
Content-Type: application/xml; charset=UTF-8
ESC_TRANSACTION_ID: 4546c40a-d6e3-4abe-a7e7-51afd4fc5362
ESC-Status-Code: 200
ESC-Status-Message: Successfully stopped VM [test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788]

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<esc_event xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <deployment_name>test-dep1-cirros</deployment_name>
  <event_details></event_details>
  <event_type>VM_STOP_COMPLETE</event_type>
  <external_deployment_id>5c278010-ad0f-4e29-bdce-f4b6c6946c38</external_deployment_id>
  <external_tenant_id>29f2cd7934dc4311ad3a34d72d1ab7b8</external_tenant_id>
  <internal_deployment_id>test-tenant1test-dep1-cirros</internal_deployment_id>
  <internal_tenant_id>test-tenant1</internal_tenant_id>
  <vm_source>
    <interfaces>
      <network_uuid>943fd9e-79f8-400c-b442-3506f102721a</network_uuid>
      <gateway>192.168.0.1</gateway>
      <ip_address>192.168.0.135</ip_address>
      <mac_address>fa:16:3e:3c:17:b0</mac_address>
      <netmask>255.255.255.0</netmask>
      <nic_id>0</nic_id>
      <port_forwarding></port_forwarding>
      <port_uuid>263eaf20-2662-4a6b-a1f1-ed76001a1b5c</port_uuid>
      <security_groups></security_groups>
      <subnet_uuid>e313b95c-ca1f-4c81-8d60-c9e721a85d0b</subnet_uuid>
      <type>virtual</type>
    </interfaces>
    <host_uuid>17be6eae40795ec068ce77a05fcbb1c47f7ac42dfba160261719d4087</host_uuid>
    <host_name>my-ucs-3</host_name>
    <vm_uuid>cb86a952-c030-46f6-96f6-e81069bcea3a</vm_uuid>
    <vm_group_name>overridegrp2</vm_group_name>
    <vm_name>test-dep1-cirros_overid_0_cfeefcee-a1fe-4e94-9ffc-81792b265788</vm_name>
  </vm_source>
</esc_event>

```

```
</vm_source>
</esc_event>
```

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--|------------|--|---------------------------------|--|
| Callback | (required) | Callback URL for notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for ESC event notifications | header | string |
| internal_tenant_id | (required) | Internal tenant ID (max length 72 characters) | path | string |
| vm_name | (required) | VM name | path | string |
| body | (required) | VM operation payload specifying the type of operation | body | Model Model Schema <div style="background-color: #ffffcc; padding: 10px;"> <pre>{ "operation": "stop" }</pre> </div> |
| Parameter content type: | | | Click to set as parameter value | |
| <input type="button" value="application/xml ▾"/> | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|--|---|----------------|---------|
| 200 | VM operation request accepted | | |
| 400 | Missing callback or, VM operation is not applicable | | |
| 404 | VM or tenant not found | | |
| <input type="button" value="Try it out!"/> | | | |

09-Configuration Parameters

| | | |
|--|-----------------------|---|
| GET | /v0/config/{category} | Retrieve all ESC config parameters under a category |
| Implementation Notes <p>Retrieve all ESC config parameters under a category</p> | | |
| Parameters | | |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------|------------|--------------------------------------|----------------|-----------|
| category | (required) | ESC config parameter category | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---------------------------------|----------------|---------|
| 200 | Get category request accepted. | | |
| 400 | Invalid category name provided. | | |
| 404 | Category not found. | | |

Try it out!

| | | |
|-----|-----------------------------|---|
| GET | /v0/config/{category}/{key} | Retrieve a ESC config parameters under a category, with a given key |
|-----|-----------------------------|---|

Implementation Notes

Retrieve a ESC config parameters under a category, with a given key

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------|------------|--------------------------------------|----------------|-----------|
| category | (required) | ESC config parameter category | path | string |
| key | (required) | ESC config parameter key | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Get key under category request accepted. | | |
| 400 | Invalid key or category name provided. | | |
| 404 | Key or category not found. | | |

Try it out!

| | | |
|------|-----------------------------|------------------------------------|
| POST | /v0/config/{category}/{key} | Create a new key under a category. |
|------|-----------------------------|------------------------------------|

Implementation Notes

Create a new key under a category.

Response Class (Status 200)

Model | Model Schema

```
{  
  "category": "DEFAULT",  
  "key": "MAX_LOGS",  
  "value": {},  
  "type": "STRING"  
}
```

Response Content Type

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|-------------------------------|----------------|-----------|
| category | (required) | ESC config parameter category | path | string |
| key | (required) | ESC config parameter key | path | string |
| body | (required) | ESC config parameter value | body | string |

Parameter content type:

Try it out!

GET /v0/config Retrieve all ESC config parameters

Implementation Notes

Retrieve all ESC config parameters

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------------------|----------------|---------|
| 200 | Get all parameters request accepted | | |

Try it out!

PUT

/v0/config/{category}/{key}/{value}

Change an ESC config parameter under a category, with a given key

Implementation Notes

Change an ESC config parameter under a category, with a given key.

Format: PUT /v0/config/{category}/{key}/{value}

Example request:

```
curl -X PUT -H "accept: Application/xml" http://127.0.0.1:8080/ESCManger/v0/config/log/level/debug
```

Example response:

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<escconfigparameter>
  <category>LOG</category>
  <key>LEVEL</key>
  <type>STRING</type>
  <value xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema">
```

Details of Config Parameters: Please refer to installation and user guide for more details.

Category: DEFAULT Key: VM_RECOVERY_RETRIES_MAX Default Value: 3 Type: Int Description: Number of maximum recovery attempts allowed per VM.

Category: OPENSTACK Key: ENDPOINT Default Value: adminURL Type: String Description: The parameter to set up the keystone endpoint value of ESC. Options : adminURL, publicURL

Category: LOG Key: LEVEL Default Value: INFO Type: String Description: Level of logging of ESCManager. Options: INFO, TRACE, DEBUG.

Category: AFFINITY Key: FILTER Default Value: SameHostFilter Type: String Description: A constant string used to build PolicyEngine and initializing VM policy table. Options: SameHostFilter, ServerGroupAffinity

Category: ANTI-AFFINITY Key: FILTER Default Value: DifferentHostFilter Type: String Description: A constant string used to build PolicyEngine and initializing VM policy table. Options: DifferentHostFilter, ServerGroupAffinity

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|-------------------------------|----------------|-----------|
| category | (required) | ESC config parameter category | path | string |
| key | (required) | ESC config parameter key | path | string |
| value | (required) | ESC config parameter value | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--------------------------------|----------------|---------|
| 200 | Update value request accepted. | | |
| 400 | Invalid request. | | |
| 404 | Associated resource not found. | | |
| 406 | Not acceptable. | | |
| 409 | Conflicting resource. | | |
| 500 | Internal server error. | | |

Try it out!

10-Volumes : Manage ESC volumes

| | | |
|---------------|---|--|
| DELETE | /v0/{internalTenantId}/volumes/{internalVolumeId} | Delete a volume from an existing tenant in ESC |
|---------------|---|--|

Implementation Notes

Delete a volume from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalVolumeId | (required) | Internal volume ID (max length 72 characters) | path | string |
| internalTenantId | (required) | Internal tenant ID of the volume (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |
| 500 | Internal server error | | |

Try it out!

GET

/v0/{internalTenantId}/volumes/{internalVolumeId}

Get a volume by its tenant and internal volume ID

Implementation Notes

Only volumes created using ESC will be checked

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the volume (max length 72 characters) | path | string |
| internalVolumeId | (required) | Internal volume ID (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|---------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Volume Id not found | | |
| Try it out! | | | |

POST

/v0/{internalTenantId}/volumes/{internalVolumeId}

Create a volume under an existing tenant in ESC

Implementation Notes

Create a volume in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalTenantId | (required) | Internal tenant ID of the volume (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|--|
| internalVolumeId | (required) | Internal volume ID (max length 72 characters) | path | string |
| body | (required) | Volume configuration payload | body | Model Model Schema <pre>{ "external_volume_id": "string", "size": "string", "sizeunit": "string", "bus": "string", "type": "string", "outOfBand": true, "bootIndex": "string", "name": "string", "format": "string", "storageLocation": "string", "external_tenant_id": "string", "internal_tenant_id": "string", "internal_volume_id": "string", "volid": 0, "event_type": "CREATE_VOLUME", "image": "string" }</pre> |
| | | Parameter content type: application/xml ▾ | | Click to set as parameter value |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |
| 404 | Volume Id not found | | |
| 409 | Conflicting request | | |
| 503 | Unable to query VIM | | |

Try it out!

| GET | /v0/{internalTenantId}/volumes | Get all volumes under a tenant | | |
|---|--------------------------------|--------------------------------|----------------|-----------|
| Implementation Notes | | | | |
| All volumes under that tenant in ESC will be returned as a List | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------------------|------------------|--|----------------|-----------|
| internalTenantId | (required) | Internal tenant ID of the volume (max length 72 characters) | path | string |
| HTTP Status Code | | Reason | Response Model | |
| 200 | Request accepted | | | |
| Try it out! | | | | Headers |

11-ESC Operation Mode

| POST | /v0/operationmode/{escOpMode} | Set operation mode in ESC | | |
|--|-------------------------------|------------------------------|----------------|-----------|
| Implementation Notes Set operation mode in ESC | | | | |
| Model Model Schema | | | | |
| <pre>{ "message": "string", "mode": "string" }</pre> | | | | |
| Response Content Type application/xml | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| escOpMode | MAINTENANCE ▾ | ESC maintenance mode. | path | string |
| Try it out! | | | | |

| | | |
|--|-------------------|---------------------------|
| GET | /v0/operationmode | Get operation mode in ESC |
| Implementation Notes Set operation mode in ESC | | |
| Response Class (Status 200) | | |

Model Model Schema

```
{  
  "message": "string",  
  "mode": "string"  
}
```

Response Content Type [application/xml](#) ▾

[Try it out!](#)

12-Host Actions

[GET](#) /v0/hosts/{hostName}/status

Get the current status of the host

Implementation Notes

This is to see if the host can be scheduled to deploy instances

Response Class (Status 200)

Response Content Type [application/xml](#) ▾

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------------|----------------------------|-------------|----------------|-----------|
| Client-Transaction-Id | <input type="text"/> | | header | string |
| hostName | (required) | | path | string |

[Try it out!](#)

[POST](#) /v0/hosts/{hostName}/disable

Disable a host

Implementation Notes

To disable a host

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------|----------------------------|--|----------------|-----------|
| Callback-ESC-Events | (required) | Callback URL for host action notifications | header | string |
| hostName | (required) | Target host name | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------|----------------|---------|
| default | successful operation | | |
| Try it out! | | | |

POST /v0/hosts/{hostName}/enable

Enable a host

Implementation Notes

To enable a host

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------------|------------|--|----------------|-----------|
| Callback-ESC-Events | (required) | Callback URL for host action notifications | header | string |
| hostName | (required) | Target host name | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|----------------------|----------------|---------|
| default | successful operation | | |
| Try it out! | | | |

13-ESC VIM Connectors : Manage ESC VIM Connectors

GET /v0/vims

Get all VIM Connectors

Implementation Notes

All VIM Connectors in ESC will be returned as a List

Response Class (Status 200)

Model | Model Schema

```
[  
  {  
    "id": "string",  
    "type": "OPENSTACK",  
    "properties": {  
      "property": [  
        {  
          "name": "string",  
          "value": "string"  
        }  
      ]  
    }  
  }  
]
```

```

        "name": "string",
        "value": "string",
        "encrypted_value": "string"
    }
]
},
"event_type": "string"
}
]

```

Response Content Type application/xml ▾

[Try it out!](#)

POST /v0/vims Create a VIM connector in ESC

Implementation Notes

Create a VIM connector in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|-------------------------------------|----------------|--|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| body | (required) | VIM Connector configuration payload | body | Model Model Schema <div style="background-color: #ffffcc; padding: 10px;"> <pre>{ "id": "string", "type": "OPENSTACK", "properties": { "property": [{ "name": "string", "value": "string", "encrypted_value": "string" }] }, "event_type": "string" }</pre> </div> |

Parameter content type:
application/xml ▾

[Click to set as parameter value](#)

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 400 | Invalid Request | | |
| 500 | Internal Server Error | | |
| Try it out! | | | |

| PUT | /v0/vims/{vim_id}/check_status | Trigger VIM connector status checking | | |
|---------------------------------------|--------------------------------|---------------------------------------|----------------|-----------|
| Implementation Notes | | | | |
| Trigger VIM connector status checking | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| vim_id | (required) | VIM ID | path | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Request accepted | | | |
| 400 | Invalid Request | | | |
| 404 | Not Found | | | |
| 500 | Internal Server Error | | | |
| Try it out! | | | | |

| DELETE | /v0/vims/{vim_id} | Delete a VIM Connector from ESC | | |
|---------------------------------|-------------------|---|----------------|-----------|
| Implementation Notes | | | | |
| Delete a VIM Connector from ESC | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| Callback | (required) | Callback URL for ESC notifications | header | string |
| vim_id | (required) | VIM ID | path | string |
| Response Messages | | | | |

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---|----------------|---------|
| 200 | VIM Connector deletion request accepted | | |
| 400 | Invalid Request | | |
| 404 | VIM Id not found | | |
| 500 | Internal Server Error | | |

[Try it out!](#)

| GET | /v0/vims/{vim_id} | Get a VIM Connector by its id | | |
|---|----------------------|-------------------------------|---------|--------|
| Parameters | | | | |
| Parameter Value Description Parameter Type Data Type | | | | |
| vim_id <input type="text" value="(required)"/> | | VIM ID | path | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Get request accepted | | | |
| 404 | VIM Id not found | | | |

[Try it out!](#)

| PUT | /v0/vims/{vim_id} | Update an existing VIM connector in ESC |
|---|---|---|
| Implementation Notes | | |
| Update an existing VIM connector in ESC | | |
| Parameters | | |
| Parameter | Value | Description Parameter Type Data Type |
| Callback | <input type="text" value="(required)"/> | Callback URL for ESC notifications header string |
| vim_id | <input type="text" value="(required)"/> | VIM ID path string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|--|----------------|--|
| body | (required) | Update VIM Connector configuration payload | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "id": "string", "type": "OPENSTACK", "properties": { "property": [{ "name": "string", "value": "string", "encrypted_value": "string" }] }, "event_type": "string" }</pre> <p>Click to set as parameter value</p> |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 500 | Internal Server Error | | |

[Try it out!](#)

| | | |
|---|--------------------------------|--------------------------------|
| GET | /v0/vims/default_vim_connector | Get default VIM Connector name |
| Response Class (Status 200) | | |
| <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "defaultVimConnectorId": "string", "event_type": "string" }</pre> | | |
| <p>Response Content Type application/xml</p> <p>Try it out!</p> | | |

| | | |
|------|--------------------------------|---------------------------------------|
| POST | /v0/vims/default_vim_connector | Create a Default VIM connector in ESC |
|------|--------------------------------|---------------------------------------|

Implementation Notes

Create a Default VIM connector in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------|------------|--|----------------|--|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| body | (required) | Default VIM Connector configuration payload | body | Model Model Schema <pre>{ "defaultVimConnectorId": "string", "event_type": "string" }</pre> |

Parameter content type:

application/xml ▾

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 500 | Internal Server Error | | |

Try it out!

14-ESC VIM Users : Manage ESC VIM Users

| | | |
|-----|-----------------------------|-------------------|
| GET | /v0/vims/{vim_id}/vim_users | Get all VIM Users |
|-----|-----------------------------|-------------------|

Implementation Notes

All VIM Users in ESC will be returned as a List

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|---------------|------------|-------------|----------------|-----------|
| vim_id | (required) | | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------|----------------|---------|
| 200 | Get request accepted | | |
| 404 | Unknown VIM Id provided | | |

Try it out!

POST /v0/vims/{vim_id}/vim_users

Create a VIM user under an existing VIM in ESC

Implementation Notes

Create a VIM user in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|------------------------------------|----------------|----------------------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| vim_id | (required) | Vim id | path | string |
| body | (required) | Vim user configuration payload | body | Model Model Schema |

Parameter content type:

application/xml ▾

```
{  
  "credentials": {  
    "properties": {  
      "property": [  
        {  
          "name": "string",  
          "value": "string",  
          "encrypted_value": "string"  
        }  
      ]  
    }  
  },  
  "id": "string",  
  "vim_id": "string",  
  "event_type": "string"  
}
```

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 500 | Internal Server Error | | |

Try it out!

DELETE /v0/vims/{vim_id}/vim_users/{vim_user_id}

Delete a VIM User from ESC

Implementation Notes

Delete a VIM User from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| vim_id | (required) | Vim id | path | string |
| vim_user_id | (required) | Vim user id | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 404 | VIM User Id not found | | |
| 500 | Internal Server Error | | |

Try it out!

GET

/v0/vims/{vim_id}/vim_users/{vim_user_id}

Get a VIM User by its id

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------|------------|--------------------|----------------|-----------|
| vim_id | (required) | Vim id | path | string |
| vim_user_id | (required) | Vim user id | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Get request accepted | | |
| 404 | VIM User Id not found | | |

Try it out!

PUT

/v0/vims/{vim_id}/vim_users/{vim_user_id}

Update a VIM user under an existing VIM in ESC

Implementation Notes

Update a VIM user in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------|------------|------------------------------------|----------------|--|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| vim_id | (required) | Vim id | path | string |
| vim_user_id | (required) | Vim user id | path | string |
| body | (required) | Vim user configuration payload | body | Model Model Schema |

Parameter content type:

application/xml ▾

```
{  
  "credentials": {  
    "properties": {  
      "property": [  
        {  
          "name": "string",  
          "value": "string",  
          "encrypted_value": "string"  
        }  
      ]  
    }  
  },  
  "id": "string",  
  "vim_id": "string",  
  "event_type": "string"  
}
```

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid Request | | |
| 500 | Internal Server Error | | |
| Try it out! | | | |

15-System States

GET

/v0/systemstate/{name}

Retrieve system state of a given name

Implementation Notes

Retrieve system state of a given name

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------|------------|--------------------------|----------------|-----------|
| name | (required) | System state name | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Get system state of specified name request accepted. | | |
| 404 | Name not found. | | |

Try it out!

POST /v0/systemstate/{name}/reset

Reset system state of a given name

Implementation Notes

Reset system state of a given name

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------|------------|--------------------------|----------------|-----------|
| name | (required) | System state name | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Reset system state of specified name request accepted. | | |
| 404 | Name not found. | | |

Try it out!

16-File Servers

DELETE /v0/fileserver/{internalServerId}

Delete a File Server

Implementation Notes

Delete a File Server

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalServerId | (required) | File Server ID | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Not found | | |
| 500 | Internal server error | | |

Try it out!

GET /v0/fileserver/{internalServerId} Get specific File Server

Implementation Notes

Matching File server will be returned if exists

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|-----------------------|----------------|-----------|
| internalServerId | (required) | File Server Id | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 404 | Not found | | |

Try it out!

POST /v0/fileserver/{internalServerId} Create a File Server

Implementation Notes

Create a File Server

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalServerId | (required) | File Server ID | path | string |
| body | (required) | ESC datamodel with the file server payload | body | string |
| Parameter content type: application/xml ▾ | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---------------------|----------------|---------|
| 200 | Request accepted | | |
| 204 | No content | | |
| 400 | Invalid Request | | |
| 409 | Conflicting Request | | |

Try it out!

| PUT | /v0/fileserver/{internalServerId} | Update a File Server | | | | | | | | | | | | | | | |
|---|-----------------------------------|---|----------------|-----------|-------------|----------------|-----------|-----------------|------------|---|--------|--------|-------------------------|------------|-----------------------|------|--------|
| Implementation Notes | | | | | | | | | | | | | | | | | |
| Update a File Server | | | | | | | | | | | | | | | | | |
| Parameters | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Parameter</th><th>Value</th><th>Description</th><th>Parameter Type</th><th>Data Type</th></tr> </thead> <tbody> <tr> <td>Callback</td><td>(required)</td><td>Callback URL for ESC notifications</td><td>header</td><td>string</td></tr> <tr> <td>internalServerId</td><td>(required)</td><td>File Server ID</td><td>path</td><td>string</td></tr> </tbody> </table> | | | Parameter | Value | Description | Parameter Type | Data Type | Callback | (required) | Callback URL for ESC notifications | header | string | internalServerId | (required) | File Server ID | path | string |
| Parameter | Value | Description | Parameter Type | Data Type | | | | | | | | | | | | | |
| Callback | (required) | Callback URL for ESC notifications | header | string | | | | | | | | | | | | | |
| internalServerId | (required) | File Server ID | path | string | | | | | | | | | | | | | |

| Parameter | Value | Description | Parameter Type | Data Type |
|---|------------|---|----------------|-----------|
| body | (required) | ESC datamodel with the file server payload | body | string |
| Parameter content type: <input type="button" value="application/xml ▾"/> | | | | |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 204 | No content | | |
| 400 | Invalid Request | | |
| 404 | Not Found | | |

| GET | /v0/fileserver | Get all File Servers | | | | | | | | |
|---|------------------|----------------------|------------------|--------|----------------|---------|-----|------------------|--|--|
| Implementation Notes | | | | | | | | | | |
| All file servers created will be returned as a List | | | | | | | | | | |
| Response Messages | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>HTTP Status Code</th><th>Reason</th><th>Response Model</th><th>Headers</th></tr> </thead> <tbody> <tr> <td>200</td><td>Request accepted</td><td></td><td></td></tr> </tbody> </table> | | | HTTP Status Code | Reason | Response Model | Headers | 200 | Request accepted | | |
| HTTP Status Code | Reason | Response Model | Headers | | | | | | | |
| 200 | Request accepted | | | | | | | | | |
| <input type="button" value="Try it out!"/> | | | | | | | | | | |

17-Dynamic Mappings

| DELETE | /v0/dynamic_mapping/metrics | Delete all non-CORE dynamic mapping metrics from ESC | | | | |
|--|-----------------------------|--|------------------|--------|----------------|---------|
| Implementation Notes | | | | | | |
| Deletes all non-CORE dynamic mapping metrics from ESC | | | | | | |
| Response Messages | | | | | | |
| <table border="1"> <thead> <tr> <th>HTTP Status Code</th><th>Reason</th><th>Response Model</th><th>Headers</th></tr> </thead> </table> | | | HTTP Status Code | Reason | Response Model | Headers |
| HTTP Status Code | Reason | Response Model | Headers | | | |

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Delete all non-core metrics request accepted | | |

[Try it out!](#)

| | | |
|--|-----------------------------|---|
| GET | /v0/dynamic_mapping/metrics | Retrieve all the dynamic mapping metrics defined in ESC |
| Implementation Notes | | |
| Retrieves all the dynamic mapping metrics defined in ESC | | |
| Response Messages | | |

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|----------------------------------|----------------|---------|
| 200 | Get all metrics request accepted | | |

[Try it out!](#)

| POST | /v0/dynamic_mapping/metrics | Create new dynamic mapping metric(s) | | |
|--------------------------------------|--|--------------------------------------|----------------|-----------|
| Implementation Notes | | | | |
| create_dynamic_mapping_metrics_notes | | | | |
| Parameters | | | | |
| Parameter | Value | Description | Parameter Type | Data Type |
| body | (required) | Metrics payload | body | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Create new metric request accepted | | | |
| 400 | 'Exception Message' or 'No metric definition found.' | | | |

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-------------------------------------|----------------|---------|
| 409 | Metric [metricName] already exists. | | |

[Try it out!](#)

| | | |
|---------------|---|--|
| DELETE | /v0/dynamic_mapping/metrics/{metric_name} | Delete a dynamic mapping metric from ESC |
|---------------|---|--|

Implementation Notes

Deletes a dynamic mapping metric from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------|------------|--|----------------|-----------|
| metric_name | (required) | Name of the metric you want to delete | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Delete metric request accepted | | |
| 400 | 'Invalid metric name provided', 'Metric [metricName] is a CORE metric, cannot delete.', or 'Metric [metricName] is currently referenced in a deployment, cannot delete.' | | |
| 404 | Metric [metricName] not found. | | |

[Try it out!](#)

| | | |
|------------|---|---|
| GET | /v0/dynamic_mapping/metrics/{metric_name} | Retrieve a dynamic mapping metric by name |
|------------|---|---|

Implementation Notes

Retrieves a dynamic mapping metric by name

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|--------------------|------------|--|----------------|-----------|
| metric_name | (required) | Name of the metric you want to retrieve | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Get metric request accepted | | |
| 400 | Invalid metric name provided [metricName]. | | |
| 404 | Metric [metricName] not found. | | |

[Try it out!](#)

| DELETE | /v0/dynamic_mapping/actions | Delete all non-CORE dynamic mapping actions from ESC | | | | | | | | |
|---|--|--|------------------|--------|----------------|---------|-----|--|--|--|
| Implementation Notes | | | | | | | | | | |
| Deletes all non-CORE dynamic mapping actions from ESC | | | | | | | | | | |
| Response Messages | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>HTTP Status Code</th><th>Reason</th><th>Response Model</th><th>Headers</th></tr> </thead> <tbody> <tr> <td>200</td><td>Delete all non-core actions request accepted</td><td></td><td></td></tr> </tbody> </table> | | | HTTP Status Code | Reason | Response Model | Headers | 200 | Delete all non-core actions request accepted | | |
| HTTP Status Code | Reason | Response Model | Headers | | | | | | | |
| 200 | Delete all non-core actions request accepted | | | | | | | | | |
| Try it out! | | | | | | | | | | |

| GET | /v0/dynamic_mapping/actions | Retrieve all the dynamic mapping actions defined in ESC | | | | | | | | |
|---|----------------------------------|---|------------------|--------|----------------|---------|-----|----------------------------------|--|--|
| Implementation Notes | | | | | | | | | | |
| Retrieves all the dynamic mapping actions defined in ESC | | | | | | | | | | |
| Response Messages | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>HTTP Status Code</th><th>Reason</th><th>Response Model</th><th>Headers</th></tr> </thead> <tbody> <tr> <td>200</td><td>Get all actions request accepted</td><td></td><td></td></tr> </tbody> </table> | | | HTTP Status Code | Reason | Response Model | Headers | 200 | Get all actions request accepted | | |
| HTTP Status Code | Reason | Response Model | Headers | | | | | | | |
| 200 | Get all actions request accepted | | | | | | | | | |
| Try it out! | | | | | | | | | | |

| | | |
|--------------------------------------|-----------------------------|--------------------------------------|
| POST | /v0/dynamic_mapping/actions | Create new dynamic mapping action(s) |
| Implementation Notes | | |
| create_dynamic_mapping_actions_notes | | |
| Parameters | | |

| Parameter | Value | Description | Parameter Type | Data Type |
|--|--|------------------------|----------------|-----------|
| body | (required) | Actions payload | body | string |
| Parameter content type: application/xml ▾ | | | | |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | Create new action request accepted | | | |
| 400 | 'Exception Message' or 'No action definition found.' | | | |
| 409 | Action [actionName] already exists. | | | |
| Try it out! | | | | |

| | | |
|---------------|---|--|
| DELETE | /v0/dynamic_mapping/actions/{action_name} | Delete a dynamic mapping action from ESC |
|---------------|---|--|

Implementation Notes

Deletes a dynamic mapping action from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------|------------|--|----------------|-----------|
| action_name | (required) | Name of the action you want to delete | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Delete action request accepted | | |
| 400 | 'Invalid action name provided', 'Action [actionName] is a CORE action, cannot delete.', or 'Action [actionName] is currently referenced in a deployment, cannot delete.' | | |
| 404 | Action [actionName] not found. | | |

Try it out!

GET

/v0/dynamic_mapping/actions/{action_name}

Retrieve a dynamic mapping action by name

Implementation Notes

Retrieves a dynamic mapping action by name

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------|------------|---|----------------|-----------|
| action_name | (required) | Name of the action you want to retrieve | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--|----------------|---------|
| 200 | Get action request accepted | | |
| 400 | Invalid action name provided [actionName]. | | |
| 404 | Action [actionName] not found. | | |

Try it out!

18-VM Snapshots

GET

/v0/snapshots

Get all VMSnapshots

Implementation Notes

Return all VMSnapshots created as a List

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|------------------|-------|-------------|----------------|-----------|
| internalTenantId | | | query | string |
| generatedVMName | | | query | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |

Try it out!

| | | |
|------|------------------------------------|---------------------------------|
| POST | /v0/snapshots/{snapshotId}/volumes | Create a volume from a snapshot |
|------|------------------------------------|---------------------------------|

Implementation Notes

Creation of a bootable volume from an ESC created volume snapshot. This is an asynchronous operation

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------|------------|---|----------------|--|
| snapshotId | (required) | Snapshot ID | path | string |
| Callback | (required) | Callback URL for ESC notifications | header | string |
| body | (required) | Volume name | body | Model Model Schema <div style="background-color: #ffffcc; padding: 5px; border: 1px solid #ccc;">{}</div> |

Click to set as parameter value

Parameter content type:
application/json ▾

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--------------------|----------------|---------|
| 202 | Request Accepted | | |
| 404 | Snapshot not found | | |

Try it out!

| | | |
|--------|----------------------------------|-----------------------------------|
| DELETE | /v0/snapshots/{snapshotIdOrName} | Handle VM snapshot delete request |
|--------|----------------------------------|-----------------------------------|

Implementation Notes

Delete VM snapshot

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|----------------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for notifications | header | string |
| Callback-ESC-Events | (required) | Callback URL for ESC event notifications | header | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------------------------|--|-------------------------|----------------|-----------|
| snapshotIdOrName | (required) | Snapshot Id/Name | path | string |
| Response Messages | | | | |
| HTTP Status Code | Reason | Response Model | Headers | |
| 200 | VM snapshot delete operation request accepted | | | |
| 404 | Snapshot image not found | | | |
| 409 | The request could not be processed because snapshot name is not unique | | | |
| Try it out! | | | | |

19-Routers : Manage ESC Routers

| | | |
|---------------|---|--|
| DELETE | /v0/{internalTenantId}/routers/{internalRouterId} | Delete a router from an existing tenant in ESC |
|---------------|---|--|

Implementation Notes

Delete a router from ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|--|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalRouterId | (required) | Internal router ID (max length 72 characters) | path | string |
| internalTenantId | (required) | Internal tenant ID of the router (max length 72 characters) | path | string |

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|-----------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |
| 500 | Internal server error | | |

Try it out!

POST /v0/{internalTenantId}/routers/{internalRouterId} Create a router under an existing tenant in ESC

Implementation Notes

Create a router in ESC

Parameters

| Parameter | Value | Description | Parameter Type | Data Type |
|-------------------------|------------|---|----------------|-----------|
| Callback | (required) | Callback URL for ESC notifications | header | string |
| internalTenantId | (required) | Internal tenant ID of the network (max length 72 characters) | path | string |
| internalRouterId | (required) | Internal router ID (max length 72 characters) | path | string |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|------------------------------|----------------|---|
| body | (required) | Router configuration payload | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "internal_tenant_id": "string", "internal_router_id": "string", "name": "string", "external_tenant_id": "string", "tenant_name": "string", "external_router_id": "string", "admin_state": true, "external_network": "string", "description": "string", "external_network_id": "string", "interface": [{ "internalAttachInterfaceId": "string", "routerName": "string", "subnetId": "string", "internal_router_id": "string", "router_id": "string", "subnet": "string", "port_id": "string", "event_type": "ATTACH_INTERFACE" }], "route": [{ "routerId": "string", "internalId": "string", "internal_router_id": "string", "destination": "string", "next_hop": "string", "route_name": "string", "event_type": "ATTACH_INTERFACE" }], "event_type": "CREATE_ROUTER", "snat_enable": true, "isdistributed": true }</pre> |

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|---------------------|----------------|---------|
| 200 | Request accepted | | |
| 400 | Invalid request | | |
| 404 | Router Id not found | | |
| 409 | Conflicting request | | |

| HTTP Status Code | Reason | Response Model | Headers |
|-----------------------------|---------------------|----------------|---------|
| 503 | Unable to query VIM | | |
| Try it out! | | | |

| PUT | /v0/{internalTenantId}/routers/{internalRouterId} | Update a Router |
|-------------------------------|---|---|
| <h3>Implementation Notes</h3> | | |
| Update a Router | | |
| <h3>Parameters</h3> | | |
| Parameter | Value | Description |
| Callback | <input type="text" value="(required)"/> | Callback URL for ESC notifications |
| internalTenantId | <input type="text" value="(required)"/> | Internal tenant ID of the network (max length 72 characters) |
| internalRouterId | <input type="text" value="(required)"/> | Internal router ID (max length 72 characters) |

| Parameter | Value | Description | Parameter Type | Data Type |
|-----------|------------|------------------------------|----------------|---|
| body | (required) | Router configuration payload | body | <div style="display: flex; justify-content: space-between;"> Model Model Schema </div> <pre>{ "internal_tenant_id": "string", "internal_router_id": "string", "name": "string", "external_tenant_id": "string", "tenant_name": "string", "external_router_id": "string", "admin_state": true, "external_network": "string", "description": "string", "external_network_id": "string", "interface": [{ "internalAttachInterfaceId": "string", "routerName": "string", "subnetId": "string", "internal_router_id": "string", "router_id": "string", "subnet": "string", "port_id": "string", "event_type": "ATTACH_INTERFACE" }], "route": [{ "routerId": "string", "internalId": "string", "internal_router_id": "string", "destination": "string", "next_hop": "string", "route_name": "string", "event_type": "ATTACH_INTERFACE" }], "event_type": "CREATE_ROUTER", "snat_enable": true, "isdistributed": true }</pre> |

Click to set as parameter value

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|------------------|----------------|---------|
| 200 | Request accepted | | |
| 204 | No content | | |
| 400 | Invalid Request | | |
| 404 | Not Found | | |

Try it out!

SSL Management

PUT

/internal/ssl/reload

Reload ESC Truststore from file system

Implementation Notes

Reload ESC Truststore from file system

Response Messages

| HTTP Status Code | Reason | Response Model | Headers |
|------------------|--------------------------------------|----------------|---------|
| 204 | ESC Truststore reloaded successfully | | |
| 500 | Failed to reload ESC truststore | | |

Try it out!

[BASE URL: /ESCManger , API VERSION: 2.2.0]