





Workspaces More

GET https://10.10.20.48/restconf/

Send

Headers (10)

Key	Value	Description
Connection	keep-alive	
Accept	application/yang-data...	
Content-Type	application/yang-data...	

Body

200 OK 477 ms 677 B

Save as example

Pretty Raw Preview Visualize XML

```
1 <restconf xmlns="urn:ietf:params:xml:ns:yang:ietf-restconf">
2   <data/>
3   <operations/>
4   <yang-library-version:2019-01-04/>
5 </restconf>
```

Console

Postbot Runner

17°C Lluvia mañana

Búsqueda

08:59 p. m. 02/12/2023

Workspaces More

GET https://10.10.20.48/restconf/data/ietf-interfaces

Send

Body

200 OK 315 ms 3.45 KB

Save as example

Pretty Raw Preview Visualize XML

```
1 <interfaces xmlns="urn:ietf:params:xml:ns:yang:ietf-interfaces"
2   xmlns:if="urn:ietf:params:xml:ns:yang:ietf-interfaces">
3   <interface>
4     <name>GigabitEthernet1</name>
5     <description>MANAGEMENT INTERFACE - DON'T TOUCH ME</description>
6     <type
7       xmlns:ianaif="urn:ietf:params:xml:ns:yang:iana-if-type">ianaif:ethernetCsmacd</type>
8     <enabled>true</enabled>
9     <ipv4 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
10       <address>
11         <ip>10.10.20.48</ip>
12         <netmask>255.255.255.0</netmask>
13       </address>
14     </ipv4>
15     <ipv6 xmlns="urn:ietf:params:xml:ns:yang:ietf-ip">
16       </ipv6>
17   </interface>
18 </interfaces>
```

Console

Postbot Runner

17°C Mayorm, nublado

Búsqueda

09:02 p. m. 02/12/2023

Lab - RESTCONF with Postman

b. In the URL for the API endpoint, enter after the host and port portion: `/restconf/data/ietf-interfaces:interfaces` to retrieve data defined in the `ietf-interfaces` YANG model in the `interfaces` container.

c. Click **Send** to send the RESTCONF API request. With unchecked **Accept** header or the **Accept** header set to `application/yang-data+xml`, the result YANG data are returned in XML encoding.

d. Check the **Accept** header and set it to `application/yang-data+json` to receive YANG data formatted in JSON encoding.

Step 2: Retrieve information about a single interface

a. In the URL for the API endpoint, enter after the host and port portion: `/restconf/data/ietf-interfaces:interfaces/interface=Loopback1` to retrieve data for the `Loopback1` interface only.

b. Click **Send**...

Step 3: Retrieve operation data

a. Change the RESTCONF API Endpoint to retrieve operation and statistical data about the interfaces. You can use the "yang" tool to discover what container in the `ietf-interfaces` YANG model includes the operational and stats data.

b. What is the new URL?

2.4 Lab - RESTCONF with Postman

GET `https://10.10.20.48/restconf/data/ietf-interfaces`

200 OK 251 ms 2.66 KB

```
{
  "ietf-interfaces:interfaces": {
    "interface": [
      {
        "name": "GigabitEthernet1",
        "description": "MANAGEMENT INTERFACE - DON'T TOUCH ME",
        "type": "iana-if-type:ethernetCsmacd",
        "enabled": true,
        "ietf-ip:ipv4": {
          "address": [
            {
              "ip": "10.10.20.48",
              "netmask": "255.255.255.0"
            }
          ]
        },
        "ietf-ip:ipv6": {}
      }
    ]
  }
}
```

bryanbarra959@gmail.com

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GET `https://10.10.20.48/restconf/data/ietf-interfaces`

200 OK 161 ms 892 B

```
{
  "ietf-interfaces:interface": [
    {
      "name": "Loopback1",
      "description": "WHATEVER",
      "type": "iana-if-type:softwareLoopback",
      "enabled": true,
      "ietf-ip:ipv4": {
        "address": [
          {
            "ip": "2.2.2.2",
            "netmask": "255.255.255.0"
          }
        ]
      }
    }
  ]
}
```

2.4 Lab - RESTCONF with Postman

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Pegar Fuente Estilos Edición Complementos

b. In the URL for the API endpoint, enter after the host and port portion: `/restconf/data/ietf-interfaces:interfaces` to retrieve data defined in the `ietf-interfaces` YANG model in the `interfaces` container.

c. Click **Send** to send the RESTCONF API request. With unchecked **Accept** header or the **Accept** header set to `application/yang-data+xml`, the result YANG data are returned in XML encoding.

d. Check the **Accept** header and set it to `application/yang-data+json` to receive YANG data formatted in JSON encoding.

Step 2: Retrieve information about a single interface

a. In the URL for the API endpoint, enter after the host and port portion: `/restconf/data/ietf-interfaces:interfaces/interface=Loopback1` to retrieve data for the `Loopback1` interface only.

b. Click **Send**...

Step 3: Retrieve operation data

a. Change the RESTCONF API Endpoint to retrieve operation and statistical data about the interfaces. You can use the `pyang` tool to discover what container in the `ietf-interfaces` YANG model includes the operational and stats data.

b. What is the new URL?

Part 3: Update Interface Configuration

a. Duplicate the existing REST API request in Postman by right clicking on the request and selecting **Duplicate** Tab to create a new request with prefilled existing Headers.

b. In the URL for the API endpoint, change the method from **GET** to **PUT** and enter after the host and port portion: `/restconf/data/ietf-interfaces:interfaces/interface=Loopback99` to create a new interface `Loopback99`.

c. In the Body part of the request, enter the YANG data you want to apply to the device's configuration (copy, paste and customize the JSON data from the previous GET request on `Loopback1` - change the

Página 3 de 4 881 palabras

16°C Mayorm, nublado

Workspaces More

GET https://10.10.20.48/ GET https://10.10.20.48/ No Environment

https://10.10.20.48/restconf/data/ietf-interf... Save

GET https://10.10.20.48/restconf/data/ietf-interfacesin... Send

Params Auth Headers (10) Body Pre-req. Tests Settings

Accept-Encoding gzip, deflate, br

Connection keep-alive

Accept application/yang-data...

Body 200 OK 465 ms 705 KB Save as example

Pretty Raw Preview Visualize JSON

```
1 {
2   "ietf-interfaces:interfaces-state": {
3     "interface": [
4       {
5         "name": "GigabitEthernet1",
6         "type": "iana-if-type:ethernetCsmacd",
7         "admin-status": "up",
8         "oper-status": "up",
9         "last-change": "2023-12-03T02:16:41.699+00:00",
10        "if-index": 1,
11        "phys-address": "08:50:56:bf:ff:68",
12        "speed": "1000000000",
13        "statistics": {
```

Console Postbot Runner

09:16 p. m. 02/12/2023

(28) 2 DH-Pl Your C N x +

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Gmail Imágenes

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Platafo

Gn.

Workspaces More

GET https://10.10.20.48/ GET https://10.10.20.48/ PUT https://10.10.20.48/ No Environment

https://10.10.20.48/restconf/data/ietf-interf... Save

PUT https://10.10.20.48/restconf/data/ietf-interfacesin... Send

Params Auth Headers (12) Body Pre-req. Tests Settings

raw JSON Beautify

```
1 {
2   "ietf-interfaces:interface": [
3     {
4       "name": "Loopback99",
5       "description": "N/A",
6       "type": "iana-if-type:softwareLoopback",
7       "enabled": true,
8       "ietf-ip:ipv4": {
9         "address": [
10          {
11            "address": "10.10.20.48",
12            "prefix-length": 24
```

Body 201 Created 1023 ms 681 B Save as example

Pretty Raw Preview Visualize

Console Postbot Runner

09:37 p. m. 02/12/2023

Google Chrome browser window showing the Google homepage and a terminal window running a RESTCONF API.

Google Chrome Browser:

- Address bar: `Buscar en Google o escribir una URL`
- Search bar: `Busca en Google o escribe una URL`
- Extensions: Plataforma E..., SUBES, Extensiones
- Bottom bar: Gmail, Perplexity, Agregar a, Personalizar Chrome

Terminal Window (PuTTY):

Workspace: `https://10.10.20.48/restconf/data/ietf-interfaces`

Environment: `No Environment`

Terminal Output:

```
Welcome to the DevNet Sandbox for Cat8000V and IOS XE

The following programmability features are already enabled:
- NETCONF
- RESTCONF

Thanks for stopping by.

cat8000v#ena
cat8000v#sh ip int brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet1	10.10.20.48	YES	NVRAM	up	up
GigabitEthernet2	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet3	unassigned	YES	NVRAM	administratively down	down
Loopback0	10.0.0.1	YES	NVRAM	up	up
Loopback1	2.2.2.2	YES	manual	up	up
Loopback10	unassigned	YES	unset	up	up
Loopback99	99.99.99.99	YES	other	up	up
Loopback109	10.255.255.9	YES	NVRAM	up	up
VirtualPortGroup0	192.168.1.1	YES	NVRAM	up	up

cat8000v#

Console Output:

```
error-tag: invalid-value,
error-message: "uri keypath not found"
```

Bottom bar: 16°, Búsqueda, ENG, 09:39 p.m., 02/12/2023