

Obtener la configuración en ejecución de varias coberturas mediante una llamada API

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Introducción

Este documento describe cómo utilizar algunas de las llamadas de API disponibles en vManage y cómo puede adaptarlo para ejecutarlo mediante una secuencia de comandos.

Problema

La información que puede requerir de vManage no siempre es fácil de recopilar si la superposición contiene cientos o miles de routers periféricos de Cisco.

Ejemplo:

La forma más sencilla de obtener la configuración en ejecución de un único router de extremo de Cisco es navegar hasta Configuration > Devices > Wan Edge List, hacer clic en puntos suspensivos (...) y Running Configuration. Entonces usted tiene que seleccionar y copiar toda la configuración y guardar en otro archivo como formato .txt. Sin embargo, el problema surge cuando se desea obtener la configuración de varios routers periféricos de Cisco, lo que hace que esta tarea resulte agotadora y lleve mucho tiempo.

The screenshot shows the Catalyst SD-WAN vManage interface. The top navigation bar includes 'Monitor', 'Configuration', 'Analytics', 'Workflows', 'Tools', 'Reports', 'Maintenance', 'Administration', and 'Explore'. The 'Configuration' tab is active, and the 'WAN Edge List' sub-tab is selected. A table titled 'WAN Edge List (7/527)' displays a list of devices. The table has columns for Site Name, Hostname, Tags, Config Locked, Managed By, Device Status, Version, Reachability, Site ID, Mode, Config Group, and Assigned Template. A dropdown menu is open for the first row (SITE_101), showing options: 'Running Configuration', 'Local Configuration', 'Delete WAN Edge', 'Config Unlock', 'Change Device Values', 'Template Log', and 'Device Bring Up'. The 'Running Configuration' option is highlighted with a green box.

Site Name	Hostname	Tags	Config Locked	Managed By	Device Status	Version	Reachability	Site ID	Mode	Config Group	Assigned Template
SITE_101	cedge1	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	101	vmanage	-	CBk-Template-V1
SITE_202	cedge2	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	202	vmanage	-	CBk-Template-V1
SITE_203	cedge3	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	203	vmanage	-	CBk-Template-V1
SITE_204	cedge4	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	204	vmanage	-	CBk-Template-V1
SITE_205	cedge5	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	205	vmanage	-	CBk-Template-V1
SITE_206	cedge6	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	206	vmanage	-	CBk-Template-V1
SITE_207	cedge7	Add Tag	Yes	Template CBk-Template-V1	In Sync	17.14.01a.0.1470	↑	207	vmanage	-	CBk-Template-V1

Catalyst SD-WAN

The network is out of compliance due to licensing, please [click here](#) for more actions.

Devices

WAN Edge List

Control Components Unclaimed WAN Edges

WAN Edge List (7/527)

Q cedge

Export Bootstrap Configuration Sync Smart Account Add PAYG WAN Edges Upload WAN Edge List

Site Name	Hostname	Tags	Config Locked	Managed By	Device Status	Version	Reachability
SITE_101	cedge1	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_202	cedge2	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_203	cedge3	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_204	cedge4	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_205	cedge5	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_206	cedge6	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑
SITE_207	cedge7	Add Tag	Yes	Template C8k-Template-V1	In Sync	17.14.01a.0.1470	↑

Running Configuration

Host: 40.40.40.1
Site ID: 204
Device Model: C8000v

```

system
system-ip 40.40.40.1
overlay-id 1
site-id 204
no transport-gateway enable
port-offset 0
control-session-pps 300
admin-tech-on-failure
sp-organization-name CISCONTPLAB
organization-name CISCONTPLAB
port-hop
track-transport
track-default-gateway
console-baud-rate 9600
no on-demand enable
on-demand idle-timeout 10
vbond 192.168.51.117 port 12346
!
banner login \x03Un authorised Logins tracked\x03
banner motd \x03Restricted Use\x03
service timestamps debug datetime msec
service timestamps log datetime msec
service tcp-keepalives-in
service tcp-keepalives-out
no service tcp-small-servers
no service udp-small-servers
hostname cedge4
username admin privilege 15 secret 9
$9$3V6L3V6L2VU2K$ysPhX0dg8RLj9KgmMmHdShkdaMmhtzGaUpqHtPTo
vrf definition 10
description Corporate
  
```

[Feedback](#)

[Close](#)

Descripción general de la llamada API

Este procedimiento es un ejemplo de cómo puede utilizar una llamada API simple para obtener toda la información necesaria.

Paso 1.

Inicie sesión en vManage de la forma habitual mediante la dirección URL o IP.

Catalyst SD-WAN

The network is out of compliance due to licensing, please [click here](#) for more actions.

Monitor

All Sites

Overview

Devices Applications Security Multicloud Tunnels Logs

Control Components: 1 Validator, 2 Controller, 1 Manager

WAN Edges: 7 Reachable, 1 Unreachable

Certificate Status: 1 Warning, 3 Invalid

Licensing: 0 Assigned, 8 Unassigned

Reboot: 0 Last 24 hrs

24 Hours

Site Health

Poor Performing Sites

9 Sites

Site name	Usage (GB)
SITE_202	0
SITE_203	0
SITE_10	0
SITE_207	0
SITE_206	0

Legend: Good (Green), Fair (Yellow), Poor (Red)

Current (Red), Previous 24 hrs (Grey)

Tunnel Health

Latency (ms) Fair Tunnels

72 Tunnels

Tunnel	Latency (ms)
cedge3.mpls-cedge4.m...	38.60
cedge3.biz-internet-ced...	32.89
cedge2.biz-internet-ced...	32.88
cedge4.biz-internet-ced...	28.02
cedge1.mpls-cedge5.mpls	27.22

Legend: Good (Green), Fair (Yellow), Poor (Red)

Current (Yellow), Previous 24 hrs (Grey)

Paso 2.

Abra un nuevo explorador de pestañas y, a continuación, copie y pegue la URL de vManage y agregue el sufijo /apidocs (<https://172.18.121.103:15256/apidocs/>).

Not Secure https://172.18.121.103:15256/apidocs/

id Work Sche... Csonc debu Login

CISCO vmanageapi.json Explore

Cisco SD-WAN vManage API 2.0.0 OAS3

vmanageapi.json

The vManage API exposes the functionality of operations maintaining devices and the overlay network

[Contact the developer](#)
[Commercial License](#)

Servers
/dataservice

Filter by tag

- Administration - Audit Log >
- Administration - User and Group >
- Certificate Management - Device >
- Certificate Management - vManage >
- Client - Security >
- Client - UI >
- Cluster Management >

Paso 3.

En el cuadro de búsqueda, escriba Supervisión - Detalles del dispositivo.

Monitoring - Device Details

Monitoring - Device Details

- GET /data/device/state/{state_data_type}
- GET /data/device/state/{state_data_type}/fields
- GET /data/device/state/{state_data_type}/query
- GET /device
- POST /device/blockSync
- GET /device/config

Paso 4.

Para obtener la configuración de un dispositivo, debe probar la llamada API /device/config.

GET /device/config

Get device running configuration

Parameters

Try it out

Name	Description
deviceId required array[string] (query)	Device Id list

Paso 5.

Ingresa el System-IP de un Cisco Edge Router y ejecute la llamada API.

GET /device/config

Get device running configuration

Parameters

Cancel

Name	Description
deviceId required array[string] (query)	Device Id list

10.10.10.1

Add Item

Execute

Responses

Curl

This curl can be used to run scripts

curl -X GET "https://172.18.121.103:15256/dataservice/device/config?deviceId=10.10.10.1" -H "accept: text/plain" -H "X-XSRF-TOKEN: A7BBCBCFA4F0D32644D071247F7C087556F8EE0C7BEF9B434C4CF4EE2D708005B9EABC14354244085A305008E4680B3BC010"

Request URL

https://172.18.121.103:15256/dataservice/device/config?deviceId=10.10.10.1

Server response

Code

Details

200

Response body

In this section you can see the configuration of device.

system
system-ip 10.10.10.1
overlay-id 1
site-id 101
no transport-gateway enable
port-offset 0
control-session-pps 300
admin-tech-on-failure
sp-organization-name CISCORTPLAB
organization-name CISCORTPLAB
port-hop
track-transport
track-default-gateway
console-baud-rate 9600
no on-demand enable
on-demand idle-timeout 10
vbond 192.168.51.117 port 12346
!
banner login \x03Un authorised Logins tracked\x03
banner motd \x03Restricted Use\x03
service timestamps debug datetime msec
service timestamps log datetime msec
service tcp-keepalives-in
service tcp-keepalives-out
no service tcp-small-servers
no service udp-small-servers
hostname cedgel
username admin privilege 15 secret 9 \$9\$3V6L3V6L2VUI2k\$ysPnX0dg8RLj9KgMdmfHdSHkdaMniHzGaUpqH6pfTo

This option downloads html file with the configuration.

Download

Uso de rizo en script

Una mejor opción es utilizar una llamada API en un script para generar archivos de configuración

de los routers periféricos de Cisco.

Paso 1.

En primer lugar, en la línea de comandos de shell o CLI, cree una carpeta donde se almacenen todos los archivos de copia de seguridad.

```
lufrias@LUFRIAS-M-P9Q2 Desktop % mkdir Backup_cedges
lufrias@LUFRIAS-M-P9Q2 Desktop % cd Backup_cedges
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % pwd
/Users/lufrias/Desktop/Backup_cedges
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
```

Paso 2.

Cree un archivo .txt con todas las direcciones IP del sistema de los routers periféricos de Cisco cuya copia de seguridad sea necesaria. Lista de direcciones IP del sistema que puede obtener de vManage y exportar el archivo CSV.

Es necesario nombrar el archivo como System-IPs.txt y guardarlo en el mismo directorio que se creó anteriormente (Backup_cedges).

Catalyst SD-WAN

Monitor

Configuration

Analytics

Workflows

Tools

Reports

Maintenance

Administration

Explore

The network is out of compliance due to licensing, please [click here](#) for more actions.

Snooze

Devices

WAN Edge List

Control Components

Unclaimed WAN Edges

WAN Edge List (7/527)

Export

Export Bootstrap Configuration

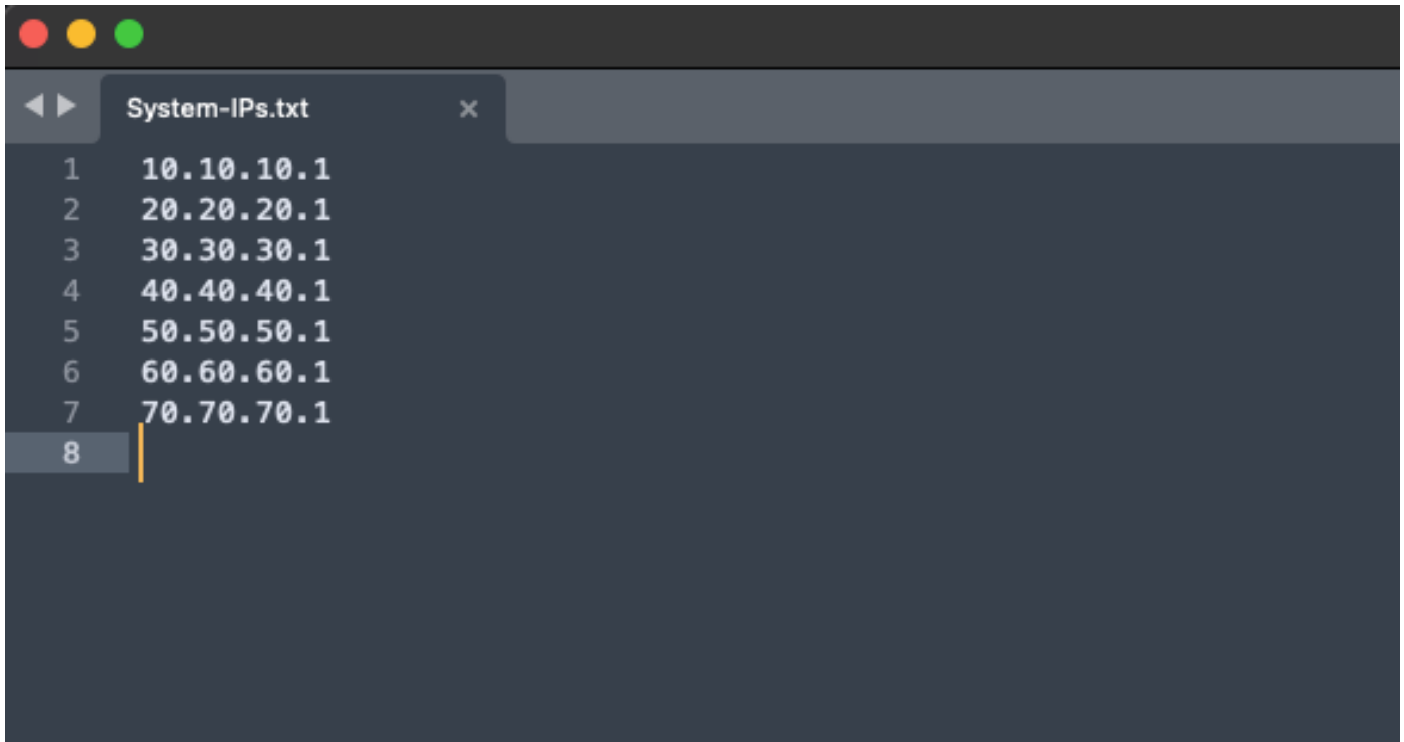
Sync Smart Account

Add PAYG WAN Edges

Upload WAN Edge List

As of: Aug 27, 2025 11:40 AM

Chassis Number	Site Name	Hostname	Tags	Config Locked	Managed By	Device Status	Version	Reachability	Site ID	Mode	Actions
CBK-D4105C39-2EAE-2B27-122A-F6C0F72EE1B4	SITE_201	cedge1	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	101	vmanage	
CBK-121CA2D0-41E6-2217-C121-0EE1B4D0A8AE	SITE_202	cedge2	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	202	vmanage	
CBK-02E80530-267B-DC53-F8B4-24AF3D4D29D4	SITE_203	cedge3	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	203	vmanage	
CBK-EE98CF9C-18E7-4714-A579-2DEB43E2DF86	SITE_204	cedge4	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	204	vmanage	
CBK-62F690FE-0226-F996-485A-EA81A91C2B2	SITE_205	cedge5	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	205	vmanage	
CBK-76AFD19D-9AFB-1348-E556-F100B79GA48A	SITE_206	cedge6	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	206	vmanage	
CBK-964D392C-E19D-14F7-8E4C-F138BA650C0B	SITE_207	cedge7	Add Tag	Yes	Template CBK-Template-V1	In Sync	1714.01a.0.1470	↑	207	vmanage	



Paso 3.

Confirme que el archivo se ha guardado.

```
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % ls -l
total 8
-rw-r--r--@ 1 lufrias  staff  77 Aug 27 12:20 System-IPs.txt
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
```

Paso 4.

Proceda a crear el script. Es posible utilizar vi o cualquier bloc de notas, solo tenga cuidado de guardarlo con formato .sh.

```
#!/bin/bash

#Define your variables

echo "Please type vManage URL in following format"
echo "https://172.18.121.103:15256 or https://vmanage.cisco.com"

read VMANAGE

echo "Please enter username to access vmanage"

read USER

echo "Password:"

read PASSWORD
```

```
#DEFINING THE API CALLS TO LOGIN AND BODY
```

```
security_url="$VMANAGE/j_security_check"
```

```
credentials="j_username=$USER&j_password=$PASSWORD"
```

```
#EXECUTE THE API CALL TO LOGIN TO THE VMANAGE.
```

```
curl --request POST --silent --insecure -c cookies.txt --url $security_url --data $credentials
```

```
#EXECUTE THE API CALL TO GET A TOKEN
```

```
TOKEN=$(curl "$VMANAGE/dataservice/client/token" -X GET -b cookies.txt -s --insecure)
```

```
arr_csv=()
```

```
while IFS= read -r line
```

```
do
```

```
    arr_csv+=("$line")
```

```
    curl --insecure -b cookies.txt -H "accept: text/plain" -H "X-XSRF-TOKEN: $TOKEN" -X GET "$VMANAGE/
```

```
    echo $line
```

```
done < System-IPs.txt
```

```
echo "Running config was collected from following System_IPs:"
```

```
index=0
```

```
for record in "${arr_csv[@]}"
```

```
do
```

```
    echo "Record at index-${index} : $record"
```

```
    ((index++))
```

```
done
```

```
curl "$VMANAGE/logout" -b cookies.txt --silent --insecure -H "X-XSRF-TOKEN: $TOKEN"
```

```
echo "Check files, if they are empty or with message "Bad request" check user and password"
```

Paso 5.

Cambie el privilegio del archivo para que se pueda ejecutar.

```
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % ls -l
total 16
-rw-r--r--@ 1 lufrias  staff    77 Aug 27 12:20 System-IPs.txt
-rw-r--r--  1 lufrias  staff  1174 Aug 27 12:47 config_backup_script.sh
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % chmod +x config_backup_script.sh
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % ls -l
total 16
-rw-r--r--@ 1 lufrias  staff    77 Aug 27 12:20 System-IPs.txt
-rwxr-xr-x  1 lufrias  staff  1174 Aug 27 12:47 config_backup_script.sh
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
```

Paso 6.

Ejecute la secuencia de comandos mediante el comando `./config_backup_script.sh`. Tenga en cuenta que, en función de la cantidad de dispositivos, tardará algún tiempo en completarse.

```
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % ./config_backup_script.sh
Please type vManage URL in following format
https://172.18.121.103:15256 or https://vmanage.cisco.com
https://172.18.121.103:15256
Please enter username to access vmanage
admin
Password:
qwerty1234Q
```

% Total	% Received	% Xferd	Average	Speed	Time	Time	Time	Current
			Dload	Upload	Total	Spent	Left	Speed
100	7238	0	7238	0	0	1133	0	--:--:-- 0:00:06 --:--:-- 1761
10.10.10.1	% Total	% Received	% Xferd	Average	Speed	Time	Time	Time
				Dload	Upload	Total	Spent	Left
100	7218	0	7218	0	0	1799	0	--:--:-- 0:00:04 --:--:-- 1800
20.20.20.1	% Total	% Received	% Xferd	Average	Speed	Time	Time	Time
				Dload	Upload	Total	Spent	Left
100	7225	0	7225	0	0	1978	0	--:--:-- 0:00:03 --:--:-- 1978
30.30.30.1	% Total	% Received	% Xferd	Average	Speed	Time	Time	Time
				Dload	Upload	Total	Spent	Left
100	7225	0	7225	0	0	1491	0	--:--:-- 0:00:04 --:--:-- 2031
40.40.40.1	% Total	% Received	% Xferd	Average	Speed	Time	Time	Time
				Dload	Upload	Total	Spent	Left
100	7225	0	7225	0	0	2717	0	--:--:-- 0:00:02 --:--:-- 2718
50.50.50.1	% Total	% Received	% Xferd	Average	Speed	Time	Time	Time
				Dload	Upload	Total	Spent	Left
100	7225	0	7225	0	0	1610	0	--:--:-- 0:00:04 --:--:-- 1641

```

60.60.60.1
  % Total  % Received % Xferd  Average Speed   Time    Time     Time  Current
             Dload  Upload   Total     Spent    Left     Speed
100  7225    0  7225    0    0   1668      0 --:--:--   0:00:04 --:--:--   1668
70.70.70.1
  % Total  % Received % Xferd  Average Speed   Time    Time     Time  Current
             Dload  Upload   Total     Spent    Left     Speed
100   40    0   40    0    0   108      0 --:--:-- --:--:-- --:--:--   107
80.80.80.1

```

Running config was collected from following System_IPs:

```

Record at index-0 : 10.10.10.1
Record at index-1 : 20.20.20.1
Record at index-2 : 30.30.30.1
Record at index-3 : 40.40.40.1
Record at index-4 : 50.50.50.1
Record at index-5 : 60.60.60.1
Record at index-6 : 70.70.70.1
Record at index-7 : 80.80.80.1

```

Method Not AllowedCheck files, if they are empty or with message Bad request check user and password
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %

Paso 7.

Finalmente, verifique que los archivos estén allí con el comando ls -l.

```

lufrias@LUFRIAS-M-P9Q2 Backup_cedges % ls -l
total 152
-rw-r--r-- 1 lufrias staff 7238 Sep 11 10:06 10.10.10.1.txt
-rw-r--r-- 1 lufrias staff 7218 Sep 11 10:06 20.20.20.1.txt
-rw-r--r-- 1 lufrias staff 7225 Sep 11 10:06 30.30.30.1.txt
-rw-r--r-- 1 lufrias staff 7225 Sep 11 10:06 40.40.40.1.txt
-rw-r--r-- 1 lufrias staff 7225 Sep 11 10:06 50.50.50.1.txt
-rw-r--r-- 1 lufrias staff 7225 Sep 11 10:06 60.60.60.1.txt
-rw-r--r-- 1 lufrias staff 7225 Sep 11 10:07 70.70.70.1.txt
-rw-r--r-- 1 lufrias staff 40 Sep 11 10:07 80.80.80.1.txt
-rw-r--r--@ 1 lufrias staff 88 Sep 10 11:48 System-IPs.txt
-rwxr-xr-x 1 lufrias staff 1352 Sep 11 09:49 config_backup_script.sh
-rw-r--r-- 1 lufrias staff 288 Sep 11 10:06 cookies.txt
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %

```

Verifique el archivo de configuración.

```

lufrias@LUFRIAS-M-P9Q2 Backup_cedges % more 10.10.10.1.txt
system
system-ip          10.10.10.1
overlay-id         1
site-id            101
no transport-gateway enable
port-offset        0

```

```
control-session-pps      300
admin-tech-on-failure
sp-organization-name     CISCORTPLAB
organization-name        CISCORTPLAB
port-hop
track-transport
track-default-gateway
console-baud-rate        9600
no on-demand enable
on-demand idle-timeout 10
vbond 192.168.51.117 port 12346
```

Si los archivos están vacíos o con un mensaje de error "Solicitud incorrecta", verifique el nombre de usuario y la contraseña de autenticación.

```
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % more 30.30.30.1.txt
Bad Request
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
```

Si el archivo muestra "No se ha encontrado ningún dispositivo para la IP del sistema", significa que la IP del sistema no existe en vManage. Debe corregir el archivo System-IPs.txt y eliminar el archivo System-IP incorrecto.

```
lufrias@LUFRIAS-M-P9Q2 Backup_cedges % more 80.80.80.1.txt
No device found for system IP 80.80.80.1
lufrias@LUFRIAS-M-P9Q2 Backup_cedges %
```

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