

ةزيم بلاق مادختساب TLOC قحلم نيوكت vManage

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ةمدقملا

vManage ةزيم بلاق مادختساب TLOC قحلم نيوكت ةيفي ك دنتسملا اذه حضوي

ةيساسألاتابلطتملا

تابلطتملا

ةيلاتال عيضاوملاب ةفرعم كي دل نوكت ناب Cisco ي صوت

- vManage ةزيم بلاق مادختسا
- vManage ةينقت يلع حاجنب vEdge (2) ني زاهج بيكرت بجي

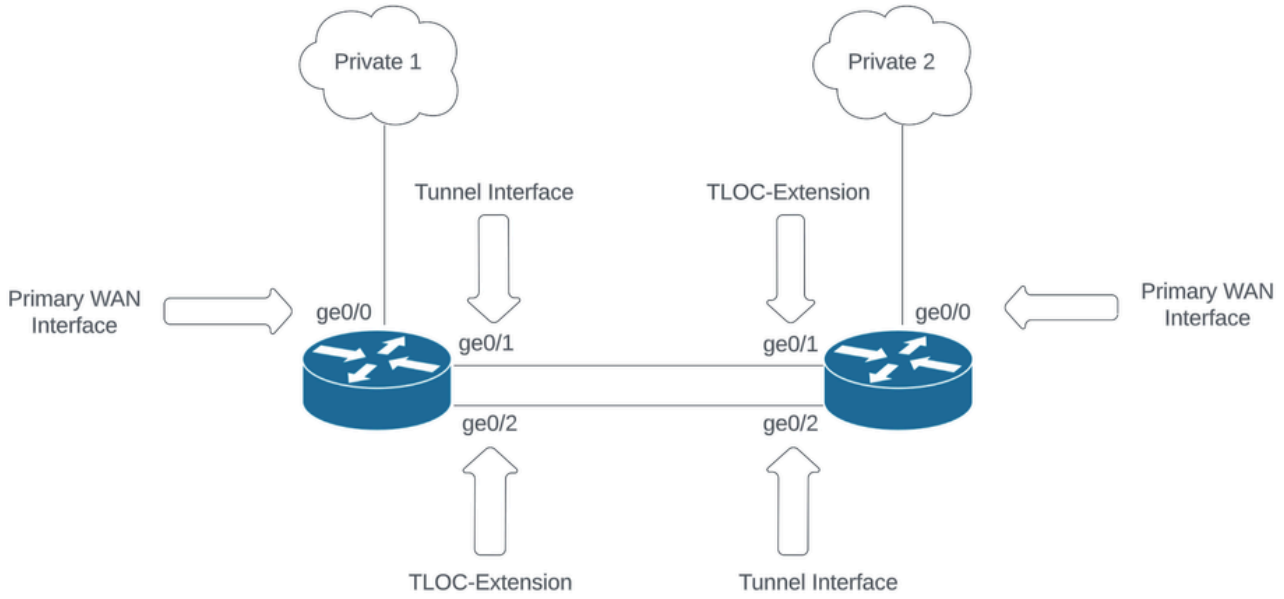
ةمدختسملا تانوكملا

ةيلاتال ةيداملا تانوكملا وجماربالا تارادصا يلا دنتسملا اذه ي ةدراولا تامولعملا دنتست

- Cisco vManage، رادصا 20.6.3
- vEdge 20.6.3

ةصاخ ةيلمعم ةئيبي ي ةدوجوملا ةزهجالا نم دنتسملا اذه ي ةدراولا تامولعملا عاشن ا مت تناك اذا. (يضا رتفا) حوسمم نيوكتب دنتسملا اذه ي ةمدختسملا ةزهجالا عيمج تادب رما يال لم تحملا ريثاتلل كم هف نم دكأتف، ليغشتلا دي قكتك بش

ةكبش لل يطي طختلا مسرلا



ةكبش لال ايج ولوبوط

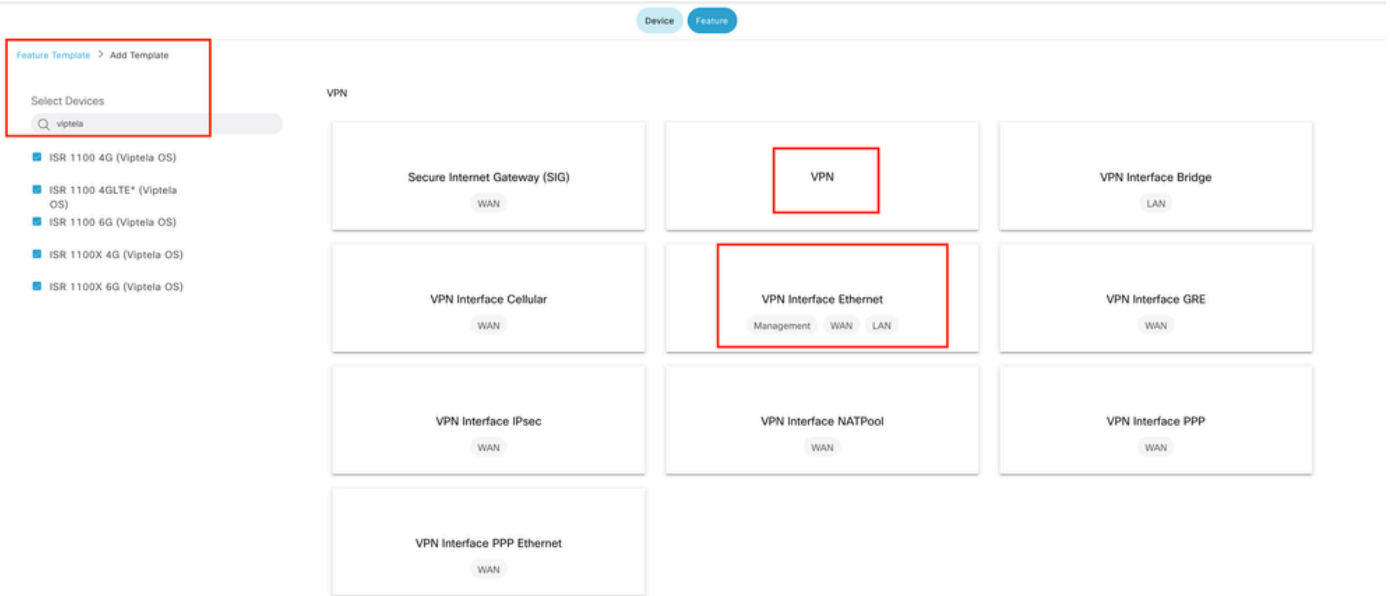
تاني وكنتلا

قبطني .اهني وكت مت ي تي لتلا تازي ملا بل او قة ي ق ب ل ع فل اب ك ي دل ن ا دن ت س م لا ا ذه ضر ت ف ي ق ب ط ن ي . Cisco IOS® XE SD-WAN ة ز ه ا ل ع س ف ن ة ز ي م لا بل اق ل م ع ر ي س

vEdge زا ه ج بل اق ي ل ع ا ه ق ي ب ط ت ل ت ا ز ي م بل او ق 4 ي ل ا م ج ا ء ا ش ن ا

VPN ة ز ي م بل اق

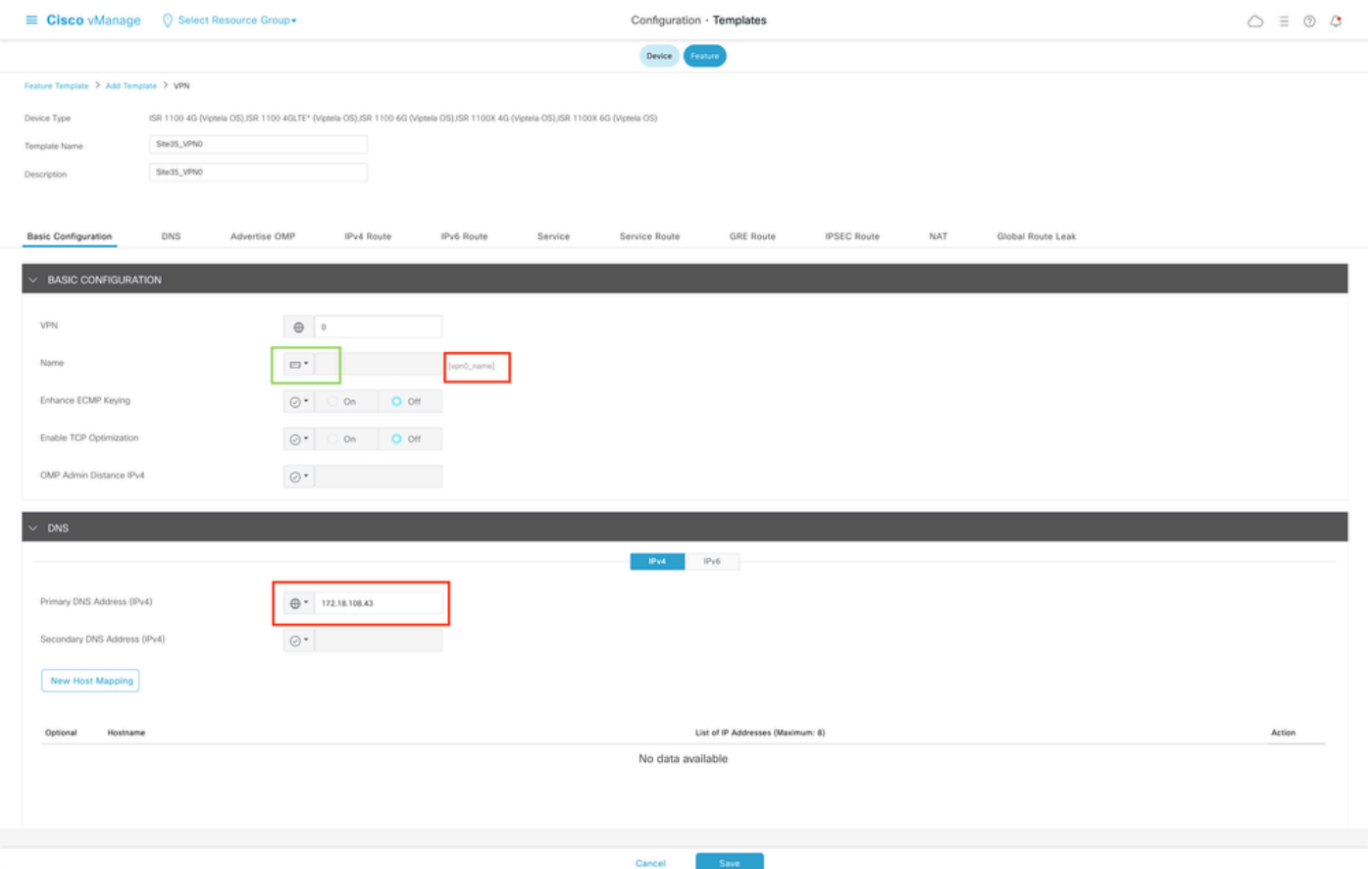
(يساس الال WAN لاصتال) VPN ة ه ج اول تنرثي ة ك ب ش و VPN 0 ة ك ب ش ا ذه ة ز ي م لا بل اق ن م ض ت ي VPN ة ه ج اول تنرثي ة ك ب ش و VPN (Tunnel/NoTlocExt) ة ه ج اول تنرثي ة ك ب ش و (TlocExt/NoTunnel):



VPN ةزيم بلوق

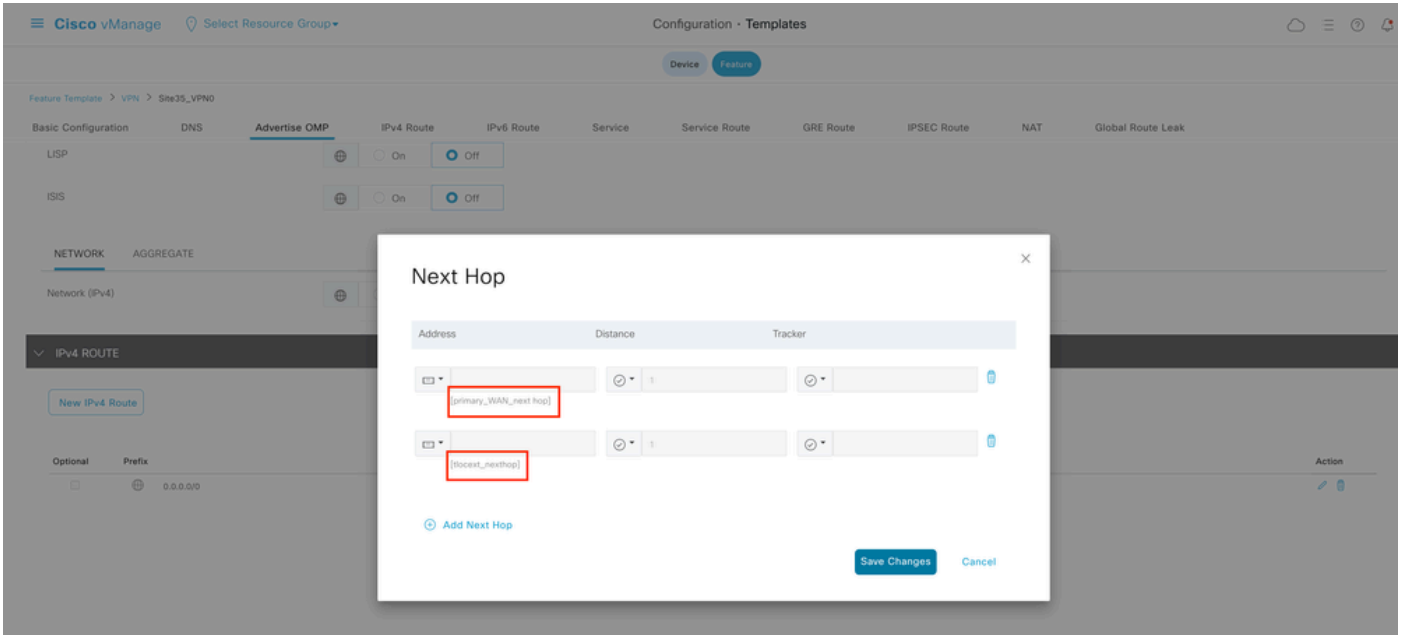
تازيم ل بلوق عاشن ا تاووخ

1. VPN 0: تفضاؤ يساسأل نيوكتل مسق ي في Transport VPN ل ددحم ل زاوجل ةميق ددح: DNS مسق ي في DNS م داخ ناوع



VPN 0 ةزيم بلوق يساسأل نيوكتل

مسق ي في (TLOC-EXT و يساسأل WAN) ةيلاتل ةووخ ل ناوع ل ددحم زاوج ميقيب ةئداب ةفاضل راسم IPv4:



VPN 0 ةزيم بلاق IPv4 هي جوت



IPv4 ةزيم بلاق VPN 0 ب صاخلا راسم لل ةيلاتلا ةوطخلا

فاقيا مدع ةلاح يف ةهجاولا نأ نم دكأت: (يساسألا WAN لاصتا) تنرثيإ VPN ةهجاو 2. IP: ناونعو فصولاو ةهجاولا مسالا ةنيعم ةزهجأ مي ق دح. ليغشتلا

Cisco vManage Configuration - Templates

Feature Template > Add Template > VPN Interface Ethernet

Template Name: Site35_VPN_Interface_Ethernet
Description: Primary WAN Circuit

Basic Configuration | Tunnel | NAT | VRRP | ACL/QoS | ARP | 802.1X | Advanced

BASIC CONFIGURATION

Shutdown: Yes No

Interface Name: [primary_wan_interface]

Description: [primary_wan_interface_description]

IPv4 IPv6

Dynamic Static

IPv4 Address: [primary_wan_interface_ip]

Secondary IP Address (Maximum: 4): [Add](#)

DHCP Helper:

Block Non Source IP: Yes No

Bandwidth Upstream:

Bandwidth Downstream:

Cancel Save

ةيساسأل WAN ةكبش ةهءاو ةزيم بلال ق ل يساسأل نيوكتل

يساسأل WAN نولل ةدءءملا زاهءلا ةميق دء. ON لىل ق فنللا ةهءاو نييعت نم دءا

Feature Template > VPN Interface Ethernet > Site35_VPN_Interface_Ethernet

Basic Configuration | **Tunnel** | NAT | VRRP | ACL/QoS | ARP | 802.1X | Advanced

TUNNEL

Tunnel Interface: On Off

Per-tunnel Qos: On Off

Color: [primary_WAN_color_value]

Restrict: On Off

Groups:

Border: On Off

Maximum Control Connections: 1

vBond As Stun Server: On Off

Exclude Controller Group List:

vManage Connection Preference: 8

Port Hop: On Off

Low-Bandwidth Link: On Off

VPN 0 ةزيم بلال ق فن ةهءاو

Feature Template > VPN Interface Ethernet > Site35_TLOC_Ext_NoTunnel

Device Type: ISR 1100 6G (Viptela OS),ISR 1100X 6G (Viptela OS),ISR 1100 4GLTE* (Viptela OS),ISR 1100 4G (Viptela OS),ISR 1100X 4G (Viptela OS)

Template Name: Site35_TLOC_Ext_NoTunnel

Description: Site 35 TLOC Extension Template without Tunnel Config

Basic Configuration | Tunnel | NAT | VRRP | ACL/QoS | ARP | 802.1X | Advanced

BASIC CONFIGURATION

Shutdown: Yes No

Interface Name: [TLOC_NoTunnel_Interface]

Description: [TLOC_NoTunnel_Interface_Description]

IPv4 | IPv6

Dynamic Static

IPv4 Address: [TLOC_NoTunnel_Interface_IP]

Secondary IP Address (Maximum: 4): [Add](#)

DHCP Helper:

Block Non Source IP: Yes No

Bandwidth Upstream:

Bandwidth Downstream:

TUNNEL

Tunnel Interface: On Off

Cancel Update

TLOC-ext/NO قف نل ءه ءول يس اسأل ن وكتل

مدقم مسق ف TLOC-Ext ءه ءو ءافاض:

Device Type: ISR 1100 4G (Viptela OS),ISR 1100 4GLTE* (Viptela OS),ISR 1100 6G (Viptela OS),ISR 1100X 4G (Viptela OS),ISR 1100X 6G (Viptela OS)
Template Name: Site35_Tunnel_NoTlocExt
Description: Site 35 TLOC Tunnel Configuration No TLOC-Ext

Basic Configuration | Tunnel | NAT | VRRP | ACL/QoS | ARP | 802.1X | Advanced

▼ BASIC CONFIGURATION

Shutdown: Yes No

Interface Name: [dropdown] [interface_tunn_notlocext]

Description: [dropdown] [interface_description_tunn_notlocext]

IPv4 | IPv6

Dynamic Static

IPv4 Address: [dropdown] [interface_ip_tunn_notlocext]

Secondary IP Address (Maximum: 4): [Add](#)

DHCP Helper: [dropdown]

TLOC-ext ل أساساً نيوكت مدع/قفلنلا هجاو

Tloc-Ext: نولل هددحمل زاهاجلا همي ق دح. ON ل قفلنلا هجاو نيكت نم دكأت

Device Feature

Feature Template > Add Template > VPN Interface Ethernet

Basic Configuration Tunnel NAT VRRP ACL/QoS ARP 802.1X Advanced

▼ TUNNEL

Tunnel Interface On Off

Per-tunnel Qos On Off

Color [flocext_color_value]

Restrict On Off

Groups

Border On Off

Maximum Control Connections

vBond As Stun Server On Off

Exclude Controller Group List

vManage Connection Preference 5

Port Hop On Off

Low-Bandwidth Link On Off

قفلنلا ةهجاو

زاهجال بلق

زاهجال بلق عاشنإ تاوطخ

1. ةزيملا بلق نم زاهجال بلق عاشنإ:

Cisco vManage Select Resource Group Configuration · Templates

Device Feature

Search

Create Template

From Feature Template

CLI Template

Total Rows: 0

Name	Description	Type	Device Model	Device Role	Resource Group	Feature Templates	Draft Mode	Devices Attached	Updated By	Last Updated	Template Status
No data available											

ةزيملا بلق نم زاهجال بلق

2. ةبولطملا تازيملا بلاوق ةفاك علم:

Device Feature

Device Model: ISR 1100 4G LTE* (Viptela OS)

Device Role: SDWAN Edge

Template Name: Site35_FeatureTemplate

Description: Template used for Site 35

Basic Information Transport & Management VPN Service VPN Cellular Additional Templates

Basic Information

System * Site35_System Additional System Templates

Logging* Site35_Logging

NTP Site35_NTP

AAA Site35_AAA BFD * Site35_BFD OMP * Site35_OMP

Security * Site35_Security

تازيمل بل او ق ل ي س اس ال ن ي و ك ت ل ع م ز ا ه ج ل ب ل ا ق ل ي ص ا ف ت

Cisco vManage Select Resource Group Configuration - Templates

Device Feature

Basic Information Transport & Management VPN Service VPN Cellular Additional Templates

Transport & Management VPN

VPN 0 * Site35_VPN0 Additional VPN 0 Templates

VPN Interface Site35_VPN_Interface_Ethernet

VPN Interface Site35_TLOC_Ext_NoTunnel

VPN Interface Site35_Tunnel_NoTlocExt

VPN 512 * Site35_VPN512 Additional VPN 512 Templates

تازيمل بل او ق ة ر ا د ا و ل ق ن ع م ز ا ه ج ل ب ل ا ق ل ي ص ا ف ت

3. زاهج ل بل ا ق ب ن ي ز ا ه ج ل ال ك ق ا ف ر ا :

Cisco vManage Select Resource Group Configuration - Templates

Device Feature

Q Search

Create Template Non-Default

Template Type Non-Default

Total Rows: 1

Name	Description	Type	Device Model	Device Role	Resource Group	Feature Templates	Draft Mode	Devices Attached	Updated By	Last Updated	Template Status
Site35_FeatureTemplate	Template used ...	Feature	ISR 1100 4G LTE* (Viptela OS)	SDWAN Edge	global	12	Disabled	0	admin	25 Jul 2022 12:2...	In Sync

- Edit
- View
- Delete
- Copy
- Attach Devices
- Change Resource Group
- Export CSV

بلاوقلاب ةزهجال قافرا

4. ةددملا ةزهجال بيوبتلا ةمالع ىلإ ةحاتملا ةزهجال نم نيزاهجال الك لقن:

Attach Devices

Attach device from the list below

Available Devices

All

Name	Device IP
------	-----------

Selected Devices Select All

All

Name	Device IP
vEdge	10.10.10.17
vEdge	10.10.10.19

Attach Cancel

ددملا ىلإ رفوتم نم ةزهجال لقن

5. نيزاهجال الك ةبولطملا لىصافتلا عيمج لخدأ:

Site35_vEdge1



Update Device Template

Variable List (Hover over each field for more information)

Status	complete
Chassis Number	ISR1100-4GLTEGB-FGL2347LHT6
System IP	10.10.10.17
Hostname	vEdge
Name(vpn0_name)	<input type="text" value="Transport"/>
Address(primary_WAN_next_hop)	<input type="text" value="10.201.237.1"/>
Address(tlocext_nexthop)	<input type="text" value="192.168.30.5"/>
Interface Name(interface_tunn_notlocext)	<input type="text" value="ge0/1"/>
Description(interface_description_tunn_notlocext)	<input type="text" value="TunnellInterface_NoTLOCExt"/>
IPv4 Address(interface_ip_tunn_notlocext)	<input type="text" value="192.168.30.4/24"/>
Color(tlocext_color_value)	<input type="text" value="private2"/>
Interface Name(TLOC_NoTunnel_Interface)	<input type="text" value="ge0/2"/>
Description(TLOC_NoTunnel_Interface_Description)	<input type="text" value="TLOC_NoTunnellInterface"/>
IPv4 Address(TLOC_NoTunnel_Interface_IP)	<input type="text" value="192.168.40.4/24"/>
Interface Name(primary_wan_interface)	<input type="text" value="ge0/0"/>
Description(primary_wan_interface_description)	<input type="text" value="Primary WAN connection"/>
IPv4 Address(primary_wan_interface_IP)	<input type="text" value="10.201.237.120/24"/>
Color(primary_WAN_color_value)	<input type="text" value="private1"/>
Hostname(system_host_name)	<input type="text" value="Site35_vEdge1"/>
System IP(system_system_ip)	<input type="text" value="10.10.10.17"/>
Site ID(system_site_id)	<input type="text" value="35"/>

Generate Password

Update

Cancel

1 ميقول اشي دحت

Site35_vEdge2

Update Device Template

Variable List (Hover over each field for more information)

Status	complete
Chassis Number	ISR1100-4GLTENA-FGL2347LJ1G
System IP	10.10.10.19
Hostname	vEdge
Name(vpn0_name)	Transport
Address(primary_WAN_next_hop)	10.201.237.1
Address(tlocext_nexthop)	192.168.40.4
Interface Name(interface_tunn_notlocext)	ge0/2
Description(interface_description_tunn_notlocext)	TunnelInterface_NoTLOCExt
IPv4 Address(interface_ip_tunn_notlocext)	192.168.40.5/24
Color(tlocext_color_value)	private1
Interface Name(TLOC_NoTunnel_Interface)	ge0/1
Description(TLOC_NoTunnel_Interface_Description)	TLOC_NoTunnelInterface
IPv4 Address(TLOC_NoTunnel_Interface_IP)	192.168.30.5/24
Interface Name(primary_wan_interface)	ge0/0
Description(primary_wan_interface_description)	Primary WAN connection
IPv4 Address(primary_wan_interface_IP)	10.201.237.66/24
Color(primary_WAN_color_value)	private2
Hostname(system_host_name)	Site35_vEdge2
System IP(system_system_ip)	10.10.10.19
Site ID(system_site_id)	35

Generate Password

Update

Cancel

2 ميقال شيدحت

6. ؤزهجال هذهل ؤصصخم ؤددمال ميقال نا نم ققحت:

Site35_vEdge1

Cisco vManage Configuration - Templates

Device Template	Total	76	allow-service sshd	78	allow-service sshd
Site35_FeatureTemplate	1	77	no allow-service netconf	79	no allow-service netconf
		78	no allow-service ntp	80	no allow-service ntp
		79	no allow-service ospf	81	no allow-service ospf
		80	no allow-service stun	82	no allow-service stun
		81	allow-service https	83	allow-service https
		82	:	84	:
		83	no shutdown	85	no shutdown
		84	:	86	:
				87	interface ge0/1
				88	description TunnelInterface_NoTLOCExt
				89	ip address 192.168.30.4/24
				90	tunnel-interface
				91	encapsulation ipsec
				92	color private2
				93	max-control-connections 1
				94	no allow-service bgp
				95	allow-service dhcp
				96	allow-service dns
				97	allow-service icmp
				98	no allow-service sshd
				99	no allow-service netconf
				100	no allow-service ntp
				101	no allow-service ospf
				102	no allow-service stun
				103	allow-service https
				104	:
				105	no shutdown
				106	:
				107	interface ge0/2
				108	description TLOC_NoTunnelInterface
				109	ip address 192.168.40.4/24
				110	no shutdown
				111	:
				112	ip route 0.0.0.0/0 10.201.237.1 1
				113	ip route 0.0.0.0/0 192.168.30.5 1
				114	:
				115	vpn 512
				116	:
				117	:
				118	:
				119	:

Back Configure Devices Cancel

1 نيوكتالتي اعلم

Site35_vEdge2

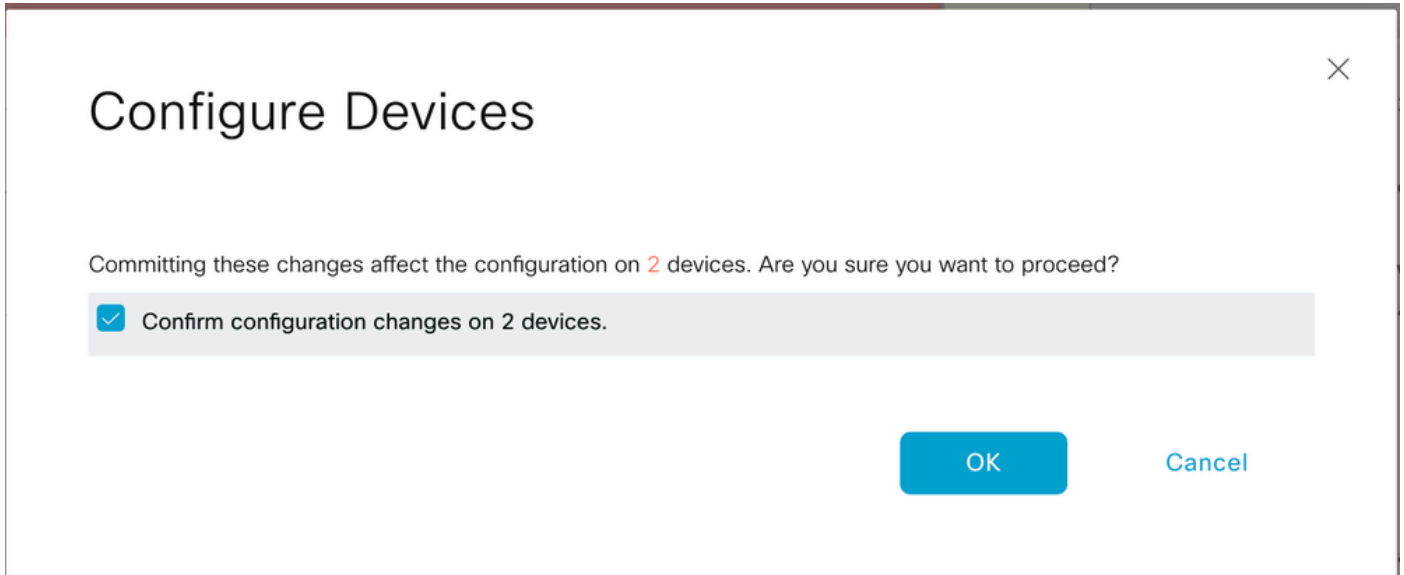
Cisco vManage Configuration - Templates

Device Template	Total	75	allow-service sshd	78	allow-service sshd
Site35_FeatureTemplate	1	76 <td>no allow-service netconf</td> <td>79 <td>no allow-service netconf</td> </td>	no allow-service netconf	79 <td>no allow-service netconf</td>	no allow-service netconf
		77 <td>no allow-service ntp</td> <td>80 <td>no allow-service ntp</td> </td>	no allow-service ntp	80 <td>no allow-service ntp</td>	no allow-service ntp
		78 <td>no allow-service ospf</td> <td>81 <td>no allow-service ospf</td> </td>	no allow-service ospf	81 <td>no allow-service ospf</td>	no allow-service ospf
		79 <td>no allow-service stun</td> <td>82 <td>no allow-service stun</td> </td>	no allow-service stun	82 <td>no allow-service stun</td>	no allow-service stun
		80 <td>allow-service https</td> <td>83 <td>allow-service https</td> </td>	allow-service https	83 <td>allow-service https</td>	allow-service https
		81 <td>:</td> <td>84 <td>:</td> </td>	:	84 <td>:</td>	:
		82 <td>no shutdown</td> <td>85 <td>no shutdown</td> </td>	no shutdown	85 <td>no shutdown</td>	no shutdown
		83 <td>:</td> <td>86 <td>:</td> </td>	:	86 <td>:</td>	:
				87 <td>interface ge0/1</td>	interface ge0/1
				88 <td>description TLOC_NoTunnelInterface</td>	description TLOC_NoTunnelInterface
				89 <td>ip address 192.168.30.5/24</td>	ip address 192.168.30.5/24
				90 <td>no shutdown</td>	no shutdown
				91 <td>:</td>	:
				92 <td>interface ge0/2</td>	interface ge0/2
				93 <td>description TunnelInterface_NoTLOCExt</td>	description TunnelInterface_NoTLOCExt
				94 <td>ip address 192.168.40.5/24</td>	ip address 192.168.40.5/24
				95	tunnel-interface
				96	encapsulation ipsec
				97	color private1
				98 <td>max-control-connections 1</td>	max-control-connections 1
				99 <td>no allow-service bgp</td>	no allow-service bgp
				100 <td>allow-service dhcp</td>	allow-service dhcp
				101 <td>allow-service dns</td>	allow-service dns
				102 <td>allow-service icmp</td>	allow-service icmp
				103 <td>no allow-service sshd</td>	no allow-service sshd
				104 <td>no allow-service netconf</td>	no allow-service netconf
				105 <td>no allow-service ntp</td>	no allow-service ntp
				106 <td>no allow-service ospf</td>	no allow-service ospf
				107 <td>no allow-service stun</td>	no allow-service stun
				108 <td>allow-service https</td>	allow-service https
				109 <td>:</td>	:
				110 <td>no shutdown</td>	no shutdown
				111 <td>:</td>	:
				112 <td>ip route 0.0.0.0/0 10.201.237.1 1</td>	ip route 0.0.0.0/0 10.201.237.1 1
				113 <td>ip route 0.0.0.0/0 192.168.40.4 1</td>	ip route 0.0.0.0/0 192.168.40.4 1
				114 <td>:</td>	:
				115 <td>vpn 512</td>	vpn 512
				116 <td>:</td>	:
				117 <td>:</td>	:
				118 <td>:</td>	:
				119 <td>:</td>	:

Back Configure Devices Cancel

2 نيوكتالتي اعلم

زاهلل تي هتال هذه لىل ع طغضا، اريخ او 6.



نيوكت ال نيوكت

حاجن ب بلال ع ف د م ن ا م VPN 0 ل ه ل ي غ ش ت ي ر ا ج ل ل نيوكت ال ي ل ل ا ل ج ر خ م ل ا ض ب ق ي ل ع

Site35_vEdge1

```
Site35_vEdge1# show run vpn 0
vpn 0
interface ge0/0
ip address 10.201.237.120/24
ipv6 dhcp-client
nat
!
tunnel-interface
encapsulation ipsec
color private1
max-control-connections 1
no allow-service bgp
allow-service dhcp
allow-service dns
allow-service icmp
allow-service sshd
no allow-service netconf
no allow-service ntp
no allow-service ospf
no allow-service stun
allow-service https
!
no shutdown
!
interface ge0/1
description TunnelInterface_NoTLOExt
ip address 192.168.30.4/24
tunnel-interface
encapsulation ipsec
color private2
max-control-connections 1
no allow-service bgp
allow-service dhcp
allow-service dns
```



```
allow-service icmp
no allow-service sshd
no allow-service netconf
no allow-service ntp
no allow-service ospf
no allow-service stun
allow-service https
!
no shutdown
!
interface ge0/2
description TL0C_NoTunnelInterface
ip address 192.168.40.4/24
tloc-extension ge0/0
no shutdown
!

ip route 0.0.0.0/0 10.201.237.1
ip route 0.0.0.0/0 192.168.30.5
!
Site35_vEdge1#
```

Site35_vEdge2

```
Site35_vEdge2#
Site35_vEdge2#
Site35_vEdge2#
Site35_vEdge2# sh run vpn 0
vpn 0
interface ge0/0
ip address 10.201.237.66/24
ipv6 dhcp-client
nat
!
tunnel-interface
encapsulation ipsec
color private2
max-control-connections 1
no allow-service bgp
allow-service dhcp
allow-service dns
allow-service icmp
allow-service sshd
no allow-service netconf
no allow-service ntp
no allow-service ospf
no allow-service stun
allow-service https
!
no shutdown
!
interface ge0/1
description TL0C_NoTunnelInterface
ip address 192.168.30.5/24
tloc-extension ge0/0
no shutdown
!
interface ge0/2
```

```

description TunnelInterface_NoTLOExt
ip address 192.168.40.5/24
tunnel-interface
encapsulation ipsec
color private1
max-control-connections 1
no allow-service bgp
allow-service dhcp
allow-service dns
allow-service icmp
no allow-service sshd
no allow-service netconf
no allow-service ntp
no allow-service ospf
no allow-service stun
allow-service https
!
no shutdown
!
ip route 0.0.0.0/0 10.201.237.1
ip route 0.0.0.0/0 192.168.40.4
!
Site35_vEdge2#

```

ققحتلا

1. نيزاهجلا الكب حاجنب بلالقال قافرا مت:

Push Feature Template Configuration ● Validation Success Initiated By: admin From: 10.24.227.28

Total Task: 2 | Success: 2

Search Total Rows: 2

Status	Message	Chassis Number	Device Model	Hostname	System IP	Site ID	vManage IP
● Success	Done - Push Feature Template Con...	ISR1100-4GLTEGB-FGL2347LHT6	ISR 1100 4GLTE* (Viptela OS)	vEdge	10.10.10.17	35	10.10.10.1
<p>[25-Jul-2022 18:16:20 UTC] Checking and creating device in vManage [25-Jul-2022 18:16:21 UTC] Generating configuration from template [25-Jul-2022 18:16:27 UTC] Device is online [25-Jul-2022 18:16:27 UTC] Updating device configuration in vManage [25-Jul-2022 18:16:27 UTC] Sending configuration to device [25-Jul-2022 18:16:40 UTC] Completed template push to device. [25-Jul-2022 18:16:41 UTC] Template successfully attached to device</p>							
● Success	Done - Push Feature Template Con...	ISR1100-4GLTENA-FGL2347LJ1G	ISR 1100 4GLTE* (Viptela OS)	vEdge	10.10.10.19	35	10.10.10.1
<p>[25-Jul-2022 18:16:20 UTC] Checking and creating device in vManage [25-Jul-2022 18:16:20 UTC] Generating configuration from template [25-Jul-2022 18:16:26 UTC] Device is online [25-Jul-2022 18:16:26 UTC] Updating device configuration in vManage [25-Jul-2022 18:16:27 UTC] Sending configuration to device [25-Jul-2022 18:16:38 UTC] Completed template push to device. [25-Jul-2022 18:16:41 UTC] Template successfully attached to device</p>							

بلالقال عفد حاجن

2. TLOC-Ext و ةيساسألا WAN ةهجاو ربع مكحتلا لاصتا لئغشت متي:

```
Site35_vEdge1# show control connections
```

PEER TYPE	PEER PROT	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIV PORT	PEER PUBLIC IP	PEER PUB PORT	ORGANIZATION	LOCAL COLOR	CONTROLLER GROUP	PROXY STATE	UPTIME	ID
vsmart	dtls	10.10.10.3	1	1	10.201.237.137	12446	10.201.237.137	12446	rcdn_sdwan_lab	private1	No	up	0:00:01:47	0
vsmart	dtls	10.10.10.3	1	1	10.201.237.137	12446	10.201.237.137	12446	rcdn_sdwan_lab	private2	No	up	0:00:01:42	0
vmanage	dtls	10.10.10.1	1	0	10.201.237.91	12446	10.201.237.91	12446	rcdn_sdwan_lab	private1	No	up	0:00:01:52	0

1 م كحتال لاصتا نم ققحتال

```
Site35_vEdge2# show control connections
```

PEER TYPE	PEER PROT	PEER SYSTEM IP	SITE ID	DOMAIN ID	PEER PRIVATE IP	PEER PRIV PORT	PEER PUBLIC IP	PEER PUB PORT	LOCAL COLOR	PROXY STATE	UPTIME	CONTROLLER GROUP ID	
vsmart	dtls	10.10.10.3	1	1	10.201.237.137	12446	10.201.237.137	12446	private2	No	up	0:00:00:25	0
vsmart	dtls	10.10.10.3	1	1	10.201.237.137	12446	10.201.237.137	12446	private1	No	up	0:00:00:15	0
vmanage	dtls	10.10.10.1	1	0	10.201.237.91	12446	10.201.237.91	12446	private2	No	up	0:00:00:20	0

2 م كحتال لاصتا نم ققحتال

مادختسالاتالاح

نم TLOC دادتما مادختساب TLOC قحللم ذيفنت اضياً نكمي، يلحلم لعقومللم ميمصت بسح ثلاتل يوتسملل وأ يثلاثل يوتسملل.

1. ف وأسفن ثبلا لاجم يف ةدوجوم تاقحللملله هذه: يثلاثل يوتسملل نم TLOC قحللم.

2. لوكوتورب يألغشت نأ نكمي و L3 زاهج ةطساوب تاقحللملله هذه لصف متي: L3 TLOC دادتما (Cisco IOSXE SD-WAN) ةزهجأ يلعل طقف موعدم) هيچوت

Cisco [مېمصت لېلد](#) نم WAN ةفاح رشن لصف يف TLOC دادتما مسق عجار: ةظحالم [SD-WAN](#).

دويقلا

- ال ثلاثلا يوتسمل نم ةهجوملا تاهاولا ىلع طقف ةموعدم TLOC و TLOC دادتما تاهاجاو نكمي الو WAN/Tunnel تاهاجوك يثلاثلا يوتسمل نم SVIs/لديدت ذفانم مادختسا نكمي ةمدخل بناج ىلع ال امدختسا.
- WAN Edge تاهجوم نبي TLOC دادتما ةهجاوك اضيا ةمدختسا متي ال LTE.
- ريغ يهو Cisco IOSXE SD-WAN تاهجوم ىلع طقف موعدم ثلاثلا يوتسمل نم TLOC قحلم ال vEdge تاهجوم ىلع ةموعدم.
- عاجرتسال قفن تاهجاوب ةطبترملا لقنلا تاهجاو ىلع TLOC قحلم لمعي ال.

ةلص تاذا تامولعم

- [Cisco نم تاليزنتلا او ينفلما معدلا](#)

ةمچرتل هذه ل و ح

ةيلأل تاي نقتل ن م ة و مچ م ادخت س اب دن ت س م ل ا اذ ه Cisco ت مچرت م ل ا ع ل ا اء ن ا ع مچ ي ف ن ي م د خ ت س م ل ل م ع د ي و ت ح م م ي د ق ت ل ة ي ر ش ب ل و ا م ك ة ق ي ق د ن و ك ت ن ل ة ي ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ا ل م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه ي ل ا ا م اء ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن ت س م ل ا