

## LAB 14: CẤU HÌNH NAT TĨNH VÀ NAT ĐỘNG TRONG SERVICE VPN 11 CỦA SD-WAN

I. Sơ đồ



## II. Yêu cầu kỹ thuật

- Viết Template cho cổng Ge0/0 của hai thiết bị vEdge1-Site2 và vEdge2-Site2 dùng Dynamic Nat cho Service VPN11 ra ngoài Internet.
- Viết Template cho cổng Ge0/0 của thiết bị vEdge1-Site1 dùng Static Nat cho Service VPN11 ra ngoài Internet.
- Các thiết bị bên trong từng site có thể truy cập ra ngoài Internet.

#### III. Các bước thực hiện

3.1. Viết template cho cổng ge0/0 của 2 thiết bị vEdge1-Site2 và vEdge2-Site2 dùng Dynamic Nat cho Service VPN11 ra ngoài Internet.

Trong giao diện vManage ta chọn **Configuration > Template > Feature.** 



### Tiếp theo chọn Template: vEdge\_VPN0\_Ge0/0\_Internet và chọn Copy

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	Name	Description	Туре	Device Model	Device Templates	Resource Group	Devices Attached	Updated By	Last Updated
	vEdge_VPN11	vEdge_VPN11_Ge0/2_VR	WAN Edge Inter	vEdge Cloud	1	global	2	admin	07 Jul 2023 12:0 •••
	vEdge_VPN512	vEdge_VPN512	WAN Edge VPN	vEdge Cloud	2	global	3	admin	05 Jul 2023 4:17 •••
	vSmart_VPN51	vSmart_VPN512_eth1	vSmart Interface	vSmart	1	global	1	admin	05 Jul 2023 4:17 •••
	vEdge_VPN512	vEdge_VPN512_eth0	WAN Edge Inter	vEdge Cloud	2	global	3	admin	05 View Edit
	vEdge_VPN11	vEdge_VPN11	WAN Edge VPN	vEdge Cloud	2	global	3	admin	05 Change Device Models Change Resource Group
	vSmart_VPN512	vSmart_VPN512	vSmart VPN	vSmart	1	global	1	admin	05 Delete
	vEdge_VPN0_G	vEdge_VPN0_Ge0/0_Inte	WAN Edge Inter	vEdge Cloud	2	global	3	admin	05 Jul 2023 4:17 •••
	vEdge_VPN0	vEdge_VPN0	WAN Edge VPN	vEdge Cloud	2	global	3	admin	05 Jul 2023 4:17 •••
	vEdge_VPN0_G	vEdge_VPN0_Ge0/1_MPLS	WAN Edge Inter	vEdge Cloud	2	global	3	admin	05 Jul 2023 4:17 •••
	vEdge_VPN11	vEdge_VPN11_Ge0/2	WAN Edge Inter	vEdge Cloud	1	global	1	admin	05 Jul 2023 4:17 •••
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Ta sửa name template lại thành vEdge\_VPN0\_Ge0/0\_Internet\_Site2



Tiếp đến chọn Edit template

Trong phần Edit, chọn mục NAT và cấu hình các thông số sau:

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		ES								
	Device Feature									
	Feature Template > VPN Interface	Ethernet								
*	Basic Configuration 1	Tunnel NAT	VRRP	ACL/QoS	ARP	802.1X	Advand	ed		
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*	NAI									
				IPv4 IPv	5					
	NAT			<b>A A</b>	_	0.64				
					n (	0 01				
	Refresh Mode			🕀 👻 bi-direct	ional	-				
	Log NAT flow creations or o	deletions			n	Off				
	UDP Timeout			<b>⊘ -</b> 1						
	TCP Timeout			<b>Ø •</b> 60						Ŧ
				Update	Cancel					

NAT > Global > On



Refresh Mode > Global > bi-directional Block ICMP > Global > Off Respond to Ping > Global > On NAT Pool Range start > Device Specific > nat\_range\_start NAT Pool Range end > Device Specific > nat\_range\_end

Cisco SD-WAN 📀 Select Res	ource Group <del>•</del>		Templates			0
	Conf	iguration Groups Feature F	rofiles Device Templates	Feature Templates		
ture Template > VPN Interface Ethernet > vEdge_VP	N0_Ge0/0_Internet_Site2					
ΝΔΤ						
		IP	<b>/4</b> IPv6			
ΝΔΤ		<b>\</b> #				
Refresh Mode		_				
Los NAT flow creations or delations		•				
LDD Timpent		511				
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	<b>0</b>					
Block ICMP		TH				
Respond to Ming		TH				
NAT Pool Range Start		[nat_range_start]				
NAT Pool Range End		[nat_range_end]				
PORT FORWARD STATIC NAT						

Tiếp theo chọn Update để thay đổi cấu hình.

Qua tab Device Template chon copy template vEdge\_VPN11\_Ge0/2\_VRRP

CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYÊN VIỆT TRUNG TÂM TIN HỌC VNPRO ĐC: 276 - 278 Ung Văn Khiêm, P.25, Q.Bình Thạnh, Tp Hồ Chí Minh DT: (028) 35124257 | Hotline: 0933427079 Email: vnpro@vnpro.org ~ - 0 × 🐝 Configuration - Templates Cisco 🛛 🗙 🕇 ← → C ▲ Not secure | https://192.168.1.1:8443/#/app/config/template/device 🖻 🖈 🔲 😩 : ≡ Cisco SD-WAN Select Resource Group• Templates  $\bigcirc \equiv \odot \bigcirc$ Configuration Groups Feature Profiles Device Templates Feature Templates Q Search Create Template  $\sim$ Template Type Non-Default V Total Rows: 3 🔀 🔅 Name ... Description Type ... Device Mode... Device Role ... Resource Group Feature Templates Draft Mode Devices Attached Updated By L vEdge... vEdge\_Site1 Feature vEdge Cloud SDWAN Edge global 16 Disabled 1 admin ( ... ( ... vEdge... vEdge\_VPN11\_Ge0/2\_VRRP Feature vEdge Cloud SDWAN Edge global 14 Disabled 2 admin Edit admi vSmar... vSmart\_Template Feature vSmart SDWAN Edge global 9 Disabled View Delete Сору Attach Devices Change Resource Group Detach Devices Export CSV Change Device Values 🔳 🔎 🛱 💽 🚍 龄 🧿 📼 ^ @ ∰ ₫∎

Ta sửa name template thành vEdge Site2 Dynamic NAT

Template Copy		
Template Name		
VEdge_Site2_Dynamic_NAI		
vEdge_Site2_Dynamic_NAT		
	Сору	Cancel
au đó chon <b>Edit</b> template		

nPro							<b>Đ</b> C: 276 - 278 Ung <b>ĐT</b> : (028) 3512425	<b>TRUNG</b> Văn Khiêm, P.25, Q 7   <b>Hotline:</b> 093342	<b>TÂM</b> ).Binh <sup>*</sup> 7079 E	TIN F Thạnh, T mail: vr	IN HỌC VNH ạnh, Tp Hồ Chí l ail: vnpro@vnpr			
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Name Description	Туре	Device Mode	. Device Role	Resource Group	Feature Templates	Draft Mode	Devices Attached	Updated By	L					
/Edge vEdge_Site1	Feature	vEdge Cloud	SDWAN Edge	global	16	Disabled	1	admin	(					
vEdge vEdge_VPN11_Ge0/2_VF	RP Feature	vEdge Cloud	SDWAN Edge	global	14	Disabled	2	admin	( •••					
/Smar vSmart_Template	Feature	vSmart	SDWAN Edge	global	9	Disabled	1	admin	(					
/Edge vEdge_Site2_Dynamic_N	AT Feature	vEdge Cloud	SDWAN Edge	global	14	Disabled	0	admin	( ••					
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								Delete						
								Сору						
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								Change	e Resoi	urce Gro	oup			

Trong phần Transport & Management VPN sửa VPN Interface VPN 0 thành vEdge\_VPN0\_Ge0/0\_Internet\_Site2, sau đó chọn Update

→ C A Not secure btt	+	eature/edit?templateId=/7/07a58-99e2-///aa_hffa_c/3696dc	8a478/attached=false	
■ Cisco SD-WAN	⑦ Select Resource Group ▼	Templates		
	Configuration Groups	Feature Profiles Device Templates Feature Temp	lates	
ransport & Management	VPN			
VPN 0 * VPN Interface VPN Interface	vEdge_VPN0  vEdge_VPN0_Ge0/0_Internet_Site2 vEdge_VPN0_Ge0/1_MPLS vEdge_VPN0_Ge0/1_MPLS vEdge_VPN0_Ge0/1_MPLS		Additional VPN 0 Templates BGP OSPF Secure Internet Gateway VPN Interface Cellular VPN Interface GRE VPN Interface IPsec VPN Interface PPP	
VPN 512 * VPN Interface	vEdge_VPN512  vEdge_VPN512_eth0  vEdge_VPN512_VPN512_eth0  vEdge_VPN512_VPN512_eth0  vEdge_VPN512_		Additional VPN 512 Templates	
ervice VPN				

Sau đó chọn Attach Devices template, chọn vEdge1-Site2, vEdge2-Site2, chọn Attach



Ở thiết bị vEdge1-Site2



nat\_range\_end: 200.200.2.150



Variable List (Hover over each field for more information) IPv4 Address(vpn11\_ge0/2\_if\_ipv4\_address) 192.168.1.1/24

IPv4 Address(vpn11_ge0/2_if_ipv4_address)	192.168.1.1/24	•
Group ID(vpn_if_vrrp_grpid)	100	
Priority(vpn_if_vrrp_priority)	120	
IP Address(vpn_if_vrrp_vrrp_ipaddress)	192.168.1.254	- 1
Router ID(ospf_router_id)	3.1.1.1	- 1
Address(vpn0_Internet_next_hop_ip_address_1)	200.200.2.1	- 1
IPv4 Address(vpn0_ge0/1_MPLS_if_ipv4_address)	172.16.1.2/24	- 1
IPv4 Address(vpn0_ge0/0_Internet_if_ipv4_address)	200.200.2.2/30	- 1
NAT Pool Range Start(nat_range_start)	200.200.2.130	- 1
NAT Pool Range End(nat_range_end)	200.200.2.150	- 1
Hostname	vEdge1_Site2	- 1
System IP	3.1.1.1	- 1
Site ID	2	- 1
		-
Generate Password	Update Cano	cel

Chọn Update để thay đổi cấu hình. Ở thiết bị vEdge2-Site2 nat\_range\_start: 200.200.3.150 nat range end: 200.200.3.170



\*

Variable List (Hover over each field for more information	)
IPv4 Address(vpn11_ge0/2_if_ipv4_address)	192.168.1.1/24

Group ID(vpn_if_vrrp_grpid)	100
Priority(vpn_if_vrrp_priority)	150
IP Address(vpn_if_vrrp_vrrp_ipaddress)	192.168.1.254
Router ID(ospf_router_id)	4.1.1.1
Address(vpn0_Internet_next_hop_ip_address_1)	200.200.3.1
IPv4 Address(vpn0_ge0/1_MPLS_if_ipv4_address)	172.16.1.3/24
IPv4 Address(vpn0_ge0/0_Internet_if_ipv4_address)	200.200.3.2/30
NAT Pool Range Start(nat_range_start)	200.200.3.150
NAT Pool Range End(nat_range_end)	200.200.3.170
Hostname	vEdge2_Site2
System IP	4.1.1.1
Site ID	2
Generate Password	Undate Cancel
Generale Password	

Chọn Update để thay đổi cấu hình.

Chọn **Configure Devices** để đẩy cấu hình xuống các thiết bị vEdge1-Site2, vEdge2-Site2

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≡ Cisco SD-WAN	⑦ Select Resource Group▼	Templates			3
Device Template     Total       vEdge_Site2_Dynamic     1       Device list (Total: 2 devices)     1       Filter/Search     5       S316bef9-7742-d0c9-1048- df6288bb4e56     4       vEdge2_Site2[4.1.1     168a2add-2c4f-fcb1-6139- 1099df86e22e       vEdge1_Site2[3.1.1]     5		Please select a device from the device list			
Configure Device Rollback Timer					
		Back Configure Devices	Cancel		
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## 3.2. Viết template cổng ge0/0 của 2 thiết bị vEdge1 dùng Static Nat cho Service VPN11 ra ngoài Internet.

Trong giao diện vManage ta chọn **Configuration > Template > Feature.** 

**M**Pro

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 ĐT: (028) 35124257 | Hotline: 0933427079 Email: vnpro@vnpro.org

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Name Description	Туре	Device Model	Device Template	s Resource Group	Devices Attache	d Updated By	Last Updated			- 1
vEdge_VPN0_G vEdge_VPN0_	Ge0/0_Site WAN Edge Inte	r vEdge Cloud	1	global	2	admin	11 Jul 2023 3:51			
vEdge_VPN11 vEdge_VPN11_	_Ge0/2_VR WAN Edge Inte	r vEdge Cloud	2	global	2	admin	11 Jul 2023 2:33	••••		
vEdge_VPN512 vEdge_VPN512	2 WAN Edge VPN	VEdge Cloud	3	global	3	admin	11 Jul 2023 2:33			
vSmart_VPN51 vSmart_VPN51	12_eth1 vSmart Interfac	e vSmart	0	global	0	admin	11 Jul 2023 2:33	••••		
vEdge_VPN512 vEdge_VPN512	2_eth0 WAN Edge Inte	r vEdge Cloud	3	global	3	admin	11 Jul 2023 2:33	•••		
vEdge_VPN11 vEdge_VPN11	WAN Edge VPN	vEdge Cloud	3	global	3	admin	11 Jul 2023 3:57		1	
vSmart_VPN512 vSmart_VPN51	12 vSmart VPN	vSmart	0	global	0	admin	11 Jul 2023 2:33	••••		
vEdge_VPN0_G vEdge_VPN0	Ge0/0_Inte WAN Edge Inte	r vEdge Cloud	2	global	1	admin	11 Jul 2023 2:33			
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Tiếp theo chọn Template: vEdge\_VPN0\_Ge0/0\_Internet và chọn Copy

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vEdge_VPN0_G	vEdge_VPN0_Ge0/0_Site	WAN Edge Inter	vEdge Cloud	1	global	2	admin	11 Jul 2	.023 3:51	•••		
vEdge_VPN11	vEdge_VPN11_Ge0/2_VR	WAN Edge Inter	vEdge Cloud	2	global	2	admin	11 Jul 2	023 2:33	•••	L	
vEdge_VPN512	vEdge_VPN512	WAN Edge VPN	vEdge Cloud	3	global	3	admin	11 Jul 2	023 2:33	•••		
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vEdge_VPN0	vEdge_VPN0	WAN Edge VPN	vEdge Cloud	3	global	3	admin	11 Jul 2	023 2:33			

**V**nPro

Sửa lại name Template thành vEdge\_Site1\_VPN0\_Ge0/0\_Internet, sau đó chọn Copy

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vEdge_VPN11 vEdge_VPN11 V	WAN Edge VF						admin	11 Jul 2023 3:57			
vSmart_VPN512 vSmart_VPN512 v	Smart VPN	vSmart	0	global	0		admin	11 Jul 2023 2:33			
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Trong phần Edit, chọn mục NAT và cấu hình các thông số sau:

CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYÊN VIỆT

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Name	Description	Туре	Device Model	Device Templates	Resource Group	Devices Attached	Updated By	Last Updated			
vEdge_Site1_V	vEdge_Site1_VPN0_Ge0/	WAN Edge Inter	vEdge Cloud	0	global	0	admin	11 Jul 2023 4:1	2		
vEdge_VPN0_G	vEdge_VPN0_Ge0/0_Site	WAN Edge Inter	vEdge Cloud	1	global	2	admin	11 View Edit		ſ	'n
vEdge_VPN11	vEdge_VPN11_Ge0/2_VR	WAN Edge Inter	vEdge Cloud	2	global	2	admin	11 Change Change	Device Resou	Models	qu
vEdge_VPN512	vEdge_VPN512	WAN Edge VPN	vEdge Cloud	3	global	3	admin	11 Delete Copy			
vSmart_VPN51	vSmart_VPN512_eth1	vSmart Interface	vSmart	0	global	0	admin	11 Jul 2023 2:3	3 •••		
vEdge_VPN512	vEdge_VPN512_eth0	WAN Edge Inter	vEdge Cloud	3	global	3	admin	11 Jul 2023 2:3	3 •••		
vEdge_VPN11	vEdge_VPN11	WAN Edge VPN	vEdge Cloud	3	global	3	admin	11 Jul 2023 3:5	7 •••		
vSmart_VPN512	vSmart_VPN512	vSmart VPN	vSmart	0	global	0	admin	11 Jul 2023 2:3	3 •••		

NAT > Global > On **Refresh** Mode > Global > bi-directional Block ICMP > Global > Off Respond to Ping > Global > On NAT Pool Range start > Device Specific > nat\_range\_start NAT Pool Range end > Device Specific > nat\_range\_end

CÔNG TY TNHH	TƯ VÂN VÀ	DICH VŲ	CHUYÊN VIỆT
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TRUNG TÂM TIN HỌC VNPRO

**ĐC**: 276 - 278 Ung Văn Khiêm, P.25, Q.Bình Thạnh, Tp Hồ Chí Minh **ĐT**: (028) 35124257 | **Hotline**: 0933427079 **Email**: vnpro@vnpro.org

C A Not secure https://192.168.1.1:8443/#/app/c Cisco SD-WAN Select Resource ure Template > VPN Interface Ethernet > vEdge_Site1_VP NAT	e Group  Configuration Groups NO_Ge0/0_Internet	ay=edit&template	Id=d99e5393-06a8-4a66- Templates Device Templates	a24d-076435838376&templateType=	-vpn-vedge-interface	¢	☆	• ⑦
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Ở mục Static Nat, chọn New Static Nat để tạo thư mục mới:

V.Pro

nPro			CÔNG TY TNHH TƯ VẦN V TR ĐC: 276 - 278 Ung Văn Khiêm, I ĐT: (028) 35124257   Hotline: 0	VÀ DỊCH VỤ UNG TÂM TI P.25, Q.Binh Thạ 933427079 Ema	CHUYÊN IN HỌC VI nh, Tp Hồ Cl il: vnpro@vn
Configuration - Templates Cisco 🛛 🗙 🕇				~ -	o ×
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	Configuration Groups	Feature Profiles Device Templates Feature Templa	tes		
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NAT Pool Range End		[nat_range_end]			
PORT FORWARD STATIC NAT	г				
New Static NAT	-				-
Optional Source IP	Translate IP Source VPN ID	Static NAT Direction Protocol	Source Port Translate Port	Action	
		No data available			
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Trong mục Staic NAT, ta cấu hình các thông số sau:

Source IP Address > Device Specific > vpn\_static\_nat\_source\_ip Translated Source IP Address > Device Specific > vpn\_static\_nat\_translated\_ip Source VPN ID > Device Specific > vpn\_static\_nat\_source\_vpn Static NAT Direction > Global > Inside

CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYÊN VIỆT

^ @ € ⊄ <sup>9≤20 PM</sup> 7/10/2023

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VRRP

New VRRP

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<b>Pro</b>		<b>DC</b> : 276 - 278 Ung Văn Khiêm, P.25, Q.	Binh	Thạ	Thạnh, Tp Hồ (							
		<b>DT</b> : (028) 35124257   <b>Hotline</b> : 0933427	079 E	Smai	I: vnj	mo(a						
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Translated Source IP Address	[vpn_static_nat_translate_ip]											
Source VPN ID	[vpn_static_nat_source_vpn]											
Static NAT Direction	⊕ ▼ Inside ▼											
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Tiếp theo chọn Update để lưu đổi cấu hình.

Cancel

IPv4 IPv6



Ở giao diện vManage, Configuration > Templates (tab Device).

Chọn Template *vEdge\_Site1* rồi chọn **Copy**, sửa tên Template thành *vEdge\_Site1\_Static\_NAT* rồi chọn **Copy** 





Ở phần Transport & Management VPN chọn template đã tạo ở trên (Template vEdge Site1 VPN0 Ge0/0 Internet)

→ C ▲ Not secure	https://192.168.1.1:8443/#/app/config/template/dev	vice/feature/edit?templateId=7445ba30-266f-487d	d-b9aa-2f323b10d312&attached=false	Ê	☆	• (
≡ Cisco SD-WA	N 💮 Select Resource Group+	Templat	tes	$\bigcirc$	=	0
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ansport & Managem	ent VPN					
/PN 0 *	vEdge_VPN0 -		Additional VPN 0 Templates			
/PN Interface	vEdge_Site1_VPN0_Ge0/0_Internet +	0	BGP     OSPF			
/PN Interface	vEdge_VPN0_Ge0/1_MPLS		Secure Internet Gateway     VPN Interface			
			VPN Interface Cellular			
			VPN Interface GRE     VPN Interface IPsec			
			VPN Interface PPP			
/PN 512 *	vEdge_VPN512		Additional VPN 512 Templates			
/PN Interface	vEdge VPN512 eth0	e	VPN Interface			
	Thulyon					

Tiếp theo chọn Update để lưu đổi cấu hình.

Sau đó chọn Attach Devices template, chọn vEdge-Site1, chọn Attach

CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYỆN VIỆT

TRUNG TÂM TIN HỌC VNPRO

**Đ**C: 276 - 278 Ung Văn Khiêm, P.25, Q.Binh Thạnh, Tp Hồ Chí Minh **Đ**T: (028) 35124257 | **Hotline:** 0933427079 **Email:** vnpro@vnpro.org

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e Description	Type	Device Mode	Device Role	Resource Group	<ul> <li>Feature Templates</li> </ul>	Draft Mode	Devices Attached	Update	di Bv La	85		
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Ö thiết bị vEdge-Site1 nat\_range\_start: 200.200.1.3 nat\_range\_end: 200.200.1.30

V-Pro



# vpn\_static\_nat\_source\_ip: 192.168.10.2 vpn\_static\_nat\_translated\_ip: 200.200.1.10 vpn\_static\_nat\_source\_vpn: 11





Chọn Update để thay đổi cấu hình.

Chọn Configure Devices để đẩy cấu hình xuống thiết bị vEdge-Site1





## IV. Kiểm tra các thiết bị có thể truy cập ra được Internet.

**Ở** Site 1:



Host-1-2



Ở site 2

**R1** 



*R2* 

```
R2>ping 8.8.8.8
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 8.8.8.8, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 51/60/72 ms
R2>
```

Dùng lệnh show ip nat filter | tab để lọc các địa chỉ ip NAT.

**Ở vEdge-Site1** 



#### CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYÊN VIỆT

TRUNG TÂM TIN HỌC VNPRO

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vEdge_Site1# sh		filter   tab						
NAT NAT								INBOUND
VPN IFNAME VF OCTETS DIREC	N PROTOC							PACKETS
0 ge0/0 0								2626
								316
								298
								0
								596
								0
								595
								9
								4

#### **ÖvEdge2-Site2**

vEdge2_Site2	sho	w ip nat f	ilter   tab						
NAT NAT									INBOUND
VPN IFNAME OCTETS DIF	VPN RECTI								PACKETS
0 ge0/0									21811
0 ge0/0									5008
0 ge0/0									5189
0 ge0/0									0
0 ge0/0									9439
0 ge0/0									5
0 ge0/0 550 -									5
vEdge2_Site2									

