

# LAB - VIẾT CHÍNH SÁCH DỮ LIỆU DATA POLICY ĐỂ ẢNH HƯỞNG ĐẾN VIỆC LỰA CHỌN ĐƯỜNG DẪN ƯU TIÊN CHO CÁC ỨNG DỤNG.

I. Sơ đồ



## II. Yêu cầu kỹ thuật

- Viết Data Policy cho Site 1 để ứng dụng HTTPs đi qua đường MPLS tới Site 2.
- Kiểm tra traffic của HTTPs khi cổng ge0/1 mở và tắt.

### III. Các bước thực hiện

Kết nối tới Windows và truy cập vào vManage UI

Vào **Monitor > Network** và chọn vEdge-Site1. Trỏ xuống đến **Troubleshooting** và chọn công cụ **Simulate Flows**. Lần lượt chọn các thông số sau

VPN: VPN 11 Source/Interface for VPN – 11\*: ge0/2 – ip4 – 192.168.10.254 Source IP: 192.168.10.2 Destination IP: 192.168.1.100 Application: https

CÔNG TY TNHH TƯ VÁN VÀ DỊCH VỤ CHUYÊN VIỆT

TRUNG TÂM TIN HỌC VNPRO ĐC: 276 - 278 Ung Văn Khiêm, P.25, Q.Binh Thạnh, Tp Hồ Chí Minh

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Bạn sẽ thấy traffic đi từ vEdge-Site1 đến site 2 của ứng dụng https đang đi qua 2 đường là MPLS và biz-internet theo mặc định.

Vào giao diện vManage > Configuration > Policies > Centralized Policy > Add Policy

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

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Tạo Data Prefix, tên là R1 và thêm địa chỉ ip là 192.168.1.100/32

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DT: (028) 35124257 | Hotline: 0933427079 Email: vnpro@vnpro.org n - Policies Cisco SD × + ~ - 0 × dth Con ← → C ▲ Not secure | https://192.168.1.1:8443/#/app/config/policy?type=centralizedPolicy&action=add ର ଜ ☆ 🛛 😩 : ■ Cisco SD-WAN Select Resource Group Policies  $\bigcirc \equiv \oslash \Diamond$ tralized Policy > Add Policy 🔵 Create Groups of Interest \_\_\_\_\_ 🕘 Configure Topology and VPN Membership \_\_\_\_\_ 💿 Configure Traffic Rules \_\_\_\_\_ 💿 Apply Policies to Sites and VPN Select a list type on the left and start creating your groups of interest Application Over the second seco Color Name Entries Internet Protocol Reference Count Updated By Last Updated Action Data Prefix 12 Jul 2023 1:52:34 PM +07 🛛 🖉 🗊 AllSite 10.10.0.0/16 IPv4 1 admin Policer Prefix Host-1-1 192.168.10.2/32 IPv4 admin 12 Jul 2023 1:52:35 PM +07 🛛 🖉 🗓 Site Host-1-2 192.168.11.2/32 2 12 Jul 2023 1:52:35 PM +07 🧷 🖉 🗑 IPv4 admin App Probe Class 192.168.1.100/32 12 Jul 2023 1:52:35 PM +07 🛛 🖉 🛅 R1 IPv4 3 admin SLA Class TLOC R2 192.168.1.200/32 IPv4 3 admin 12 Jul 2023 1:52:35 PM +07 💋 🖉 🗓 VPN Region

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Tạo VPN list có tên là VPN11 và giá trị là 11

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Ta chọn Next và Next để qua bước tiếp theo

Trong phần **Configure Traffic Rules** chọn **Traffic Data > Add Policy > Create New** để tạo Policy mới.

414	Mo	onito	r - VPN Ci	sco SDWAN	×	+										~	-	٥	×
←	$\rightarrow$	(	C 🔺	Not secure	http	<del>s</del> :// <b>192.168.1.1</b> :8443/#/:	app/config/polic	cy?type=centra	alizedPolicy8	Blaction=ad	d				Q	ė	☆		÷
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	Cent	traliz	ed Policy	> Add Policy	·		•				-								*
					<b>v</b>	Create Groups of Interest	r 🥑 Cr	onfigure Topolog	gy and VPN M	1embership		<ul> <li>Configure Traffic Rules</li> </ul>	Apply Policie						
	Choo	ose a	a tab and	add Traffic rule	es unde	r the selected type													Î
	Ap	opiid	cation A	ware Routi	ng	Traffic Data Cflov	va												-11
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Name: : Traffic\_Engineering Description:Traffic\_Engineering



Thêm Sequence Rule và chọn Destination Data Prefix.

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Monitor - VPN Cisco SDWAN ×       +         → C ▲ Not secure   https://192.168.1.1:8443/#/app/config/policy?type=centralizedPolicy&action=add         ■ Cisco SD-WAN ④ Select Resource Group ● VPN         Add Data Policy         Name*       Traffic_Engineering         Description*       Traffic_Engineering         ● Sequence Type       ●: Sequence Rule         Description*       Drag and drop to re-arrange rules	v − c Q LA ★ □ ○ Ξ C Traffic Engineer	■ × ▲ : ) Q
C Cisco SD-WAN C Select Resource Group VPN  Add Data Policy Name* Traffic_Engineering  Sequence Type C Sequence Rule Drag and drop to re-arrange rules	<ul> <li>Q Let ★     <li>□     <li>□     <li>Ξ (0)     </li> <li>Traffic Engineer     </li> </li></li></li></ul>	* : )
E Cisco SD-WAN     Select Resource Group     VPN       Add Data Policy       Name*     Traffic_Engineering       Description*     Traffic_Engineering       Image: Sequence Type     Image: Sequence Rule       Image: Organ and drop to re-arrange rules     Image: Sequence Rule	○ Ξ C	ring
Add Data Policy       Name*     Traffic_Engineering       Oescription*     Traffic Engineering       Image: Sequence Type     Image: Sequence Rule       Image: Description to re-arrange rules	Traffic Enginee	ring
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Description*     Traffic_Engineering       Image: Sequence Type     Image: Sequence Rule       Image: Sequence Rule     Drag and drop to re-arrange rules	Traffic Enginee	ring
Sequence Type     Sequence Rule     Drag and drop to re-arrange rules	Traffic Enginee	ring
Protocol IPv4   Protocol IPv4  Protocol Source Data Prefix	Actions Prefix Source Port Destination Data Prefix Destination Port TCP	
fault Action Match Conditions	Actions	
Destination Data Prefix List	Accept Enabled	
R1 ×	Local TLOC List: Color X	
Destination: IP Example: 10.0.0.0/12 Prefix	mpis ×	
	Local TLOC List: Encapsulation	
	IPSEC ×	
Cancel Save Match A	tch And Actions Restrict	

Chọn Action > Local TLOC. Chọn mpls cho phần color và IPSEC cho phần Encapsulation. Chọn Save Match And Actions.

	ps://192.168.1.1:8443/#/app/config/policy?type=centralizedPolicy&action	=add	९ 🖻 ☆ 🔲 😩
E Cisco SD-WAN	⑦ Select Resource Group▼		
Add Data Policy		VPN	$\bigcirc \equiv \odot$
Name* Traffic_Engine	ering		
Description* Traffic_Engline	ering		
	🔍 Traffic Engineering		Traffic Engineering
(+) Sequence Type	Sequence Rule Drag and drop to re-arrange rules		
↑↓ Drag & drop to reorder		Match Actions	
Traffic Engineering	Protocol IPv4   Accept DropCounter Local	LOG Next Hop TLOC VPN	
fault Action	Match Conditions	Actions	
	Destination Data Prefix List	Accept Enabled	
	R1 ×	Local TLOC List: Color	×
	Destination: IP Example: 10.0.0.0/12	mpts ×	-
	Prenx	Local TLOC List	
		Encapsulation	
		IPSEC ×	-
	Can	Save Match And Actions	
	Save Data Policy	Cancel	

Phần Default Action chọn Accept. Chọn Save Data Policy.



 TRUNG TÂM TIN HỌC VNPRO

 ĐC: 276 - 278 Ung Văn Khiêm, P.25, Q.Bình Thạnh, Tp Hồ Chí Minh



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E unit trajvening were Action Were Trained Concert Chopen Next d'É qua buróc cuối. Mota secure Hetper/192.168.1.18.443/#/app/config/policy/type=centralizedPolicy8action=add Chopen Next d'É qua buróc cuối. Mota secure Hetper/192.168.1.18.443/#/app/config/policy/type=centralizedPolicy8action=add Cisco SDWAN × +	0
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Monitor - VPN Cisco SDWAN       *       *       •<	
Note: VPL Case Survival       ▲         → C       ▲ Not secure       https://192.168.1.18443/#/app/config/policy?type=centralizedPolicy&action=add       Q       P       P       I         Image: Cisco SD-WAN       ③ Select Resource Group ▼       VPN       △       I       C         Centralized Policy > Add Policy       ④ Create Groups of Interest       ④ Configure Topology and VPN Membership       ④ Configure Traffic Rules       ● Apply Policies to Sites and VPNs	a v
E Cisco SD-WAN       () Select Resource Group>       VPN       () = ()         Centralized Policy > Add Policy       () Create Groups of Interest       () Configure Topology and VPN Membership       () Configure Traffic Rules       () Apply Policies to Sites and VPNs         Add policies to sites and VPNs       ()       () Configure Topology and VPN Membership       () Configure Traffic Rules       () Apply Policies to Sites and VPNs	
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Centralized voicy > Add voicy	y ç
Add policies to sites and VPNs	
Add policies to sites and VPNs	
Policy Name* Traffic_Engineering	
Policy Description* Traffic_Engineering	
Topology Application-Aware Routing Traffic Data Cflowd Role Mapping for Regions	
Traffic_Engineering	
New Site/Region List and VPN List	

Điền tên Policy: *Traffic\_Engineering*, chọn tiếp phần **Traffic Data > New Site/Region List** and VPN List và điền lượt chọn như sau:

Direction

Save Policy Cancel

Action

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From Service: Site1

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Region ID

Site/Region List

Back

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VPN List



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 Chi Minh

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

**VPN List Corporate: VPN11** 

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E Cisco SD-WAN () Select Resource Group• VPN	
Centralized Policy > Add Policy Create Groups of Interest O Configure Topology and VPN Membership O Configure Traffic Rules Apply Policies to Sites and VPNs	
Add policies to sites and VPNs	
Policy Name* Traffic_Engineering	
Policy Description* Traffic_Engineering	
Topology Application-Aware Routing Traffic Data Cflowd Role Mapping for Regions	
Traffic_Engineering	^
New Site/Region List and VPN List     From Service      From Tunnel     All	
Site List () Region	
Select Ste Let Sto 1 ×	
Select VPN List	
VPN11 ×	·
	Add Cancel
Back Preview Save Policy Cancel	
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Chọn Save Policy Changes và Activate để áp dụng chính sách

(Lưu ý: đã cấu hình Template cho thiết bị vSmart trước đó)

🗰 Monitor - VPN Cisco SDWAN 🗙 🕂					~ - Ø ×
← → C ▲ Not secure   https://192.168.1.1:844	13/#/app/config/policy/centrali	edPolicy/policies			९ 🖻 🖈 🔲 😩 :
■ Cisco SD-WAN ② Select Resol	urce Group▼		VPN		$\bigcirc \equiv \odot \Diamond$
					ງເກຼັ Custom Options 🗸
		Centralized Policy	Localized Policy		
Q Search					$\nabla$
Add Policy Add Default AAR & QoS					Total Rows: 4 📿 🔅
Name Description	Туре	Activated	Updated By	Policy Version	Last Updated
VPN11_NAT_POLICY VPN11_NAT_POLICY	UI Policy Builder	false	admin	07122023T065245908	12 Jul 2023 1:52:45 PM +07 ••••
Hub_and_Spoke Hub_and_Spoke	UI Policy Builder	false	admin	07122023T065247124	12 Jul 2023 1:52:47 PM +07 ••••
User_Guest_VPN12 User_Guest_VPN12	UI Policy Builder	false	admin	07122023T06524803	12 Jul 2023 1:52:48 PM +07 ***
Traffic_Engineering Traffic_Engineering	Ul Policy Builder	falso	admin	07122023T115552272	12 Jul 2023 6:55:52 PM +07  Test View Proview Copy Edit Delete Activate Im
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nPro				<b>DC</b> : 276 - 278 0	TRU Ung Văn Khiêm, P.: 4257   Hotline: 093	NG TA 25, Q.Bi	M T	IN HO	Hồ
onitor - VPN Cisco SDWAN	× +			D1. (020) 5512	4257   Hounte, 69.	~	-	0	, ,
C A Not secure	https://192.168.1.1:8443/#/app/device/	'status?activity=vsmart_polic	:y_config&pid=vsmart_policy_config	-bca4d2d6-d322-43d4-90b8-96256a5a3460	Q	¢ 1	\$		;
Cisco SD-WAN	Select Resource Group•					0	=	0	Q
sh vSmart Policy   Ø Validation al Task: 1   Success : 1	n Success				Initiated By: admi	n From:	192.16	8.1.200	
Search								$\nabla$	
Status	Message	Hostname	System IP	Site ID	Toti vManage IP	al Rows: 1	Ŕ	ð 🕸	
<ul> <li>Success</li> </ul>	Done - Push vSmart Policy	vSmart	1.1.1.3	1000	1.1.1.1				

Vào CLI của vSmart, dùng lệnh **show running-config policy** để kiểm tra chính sách đã được đẩy xuống vSmart.



```
vSmart# show running-config policy
policy
data-policy VPN11 Traffic Engineering
 vpn-list VPN11
  sequence 1
   match
    destination-data-prefix-list R1
   action accept
     set
     local-tloc-list
      color mpls
      encap ipsec
  default-action accept
lists
 vpn-list VPN11
  vpn 11
 data-prefix-list R1
  ip-prefix 192.168.1.100/32
 site-list Site1
  site-id 1
vSmart#
```



Vào CLI của vEdge4, dùng lệnh **show policy from-vsmart** để kiểm tra chính sách đã đẩy xuống cho vEdge-Site1.

```
vEdge-Site1# show policy from-vsmart
from-vsmart data-policy VPN11 Traffic Engineering
direction from-service
vpn-list VPN11
 sequence 1
  match
   destination-data-prefix-list R1
  action accept
   set
    local-tloc-list
     color mpls
     encap ipsec
 default-action accept
from-vsmart lists vpn-list VPN11
vpn 11
from-vsmart lists data-prefix-list R1
ip-prefix 192.168.1.100/32
vEdge-Site1#
```

Vào giao diện vManage, **Monitor > Network** và chọn vEdge-Site1. Trở xuống đến **Troubleshooting** và chọn công cụ **Simulate Flows**. Lần lượt chọn các thông số sau:

VPN: VPN 11 Source/Interface for VPN – 11\*: ge0/2 – ip4 – 192.168.10.254 Source IP: 192.168.10.2 Destination IP: 192.168.1.100 Application: https

mPro		CÔNG ĐC: 2' ĐT: (0	FY TNHH TƯ VÂN VÀ DỊCH VỤ CHUYÊN TRUNG TÂM TIN HỌC V 76 - 278 Ung Văn Khiêm, P.25, Q.Binh Thạnh, Tp Hồ C 128) 35124257   Hotline: 0933427079 Email: vnpro@vr
Monitor - Devices Cisco SDWAN × +			~ - o ×
C A Not secure   https://192.168.1.1:8443/#/app/monitor/devices/dashi	board/troubleshooting/simulate_flows?personalit	ty=vedge&systemIp=2.1.1.1&localS	iystemIp=2.1.1.1&devic 🍳 🖻 🛧 🔲 😩 🗄
E Cisco SD-WAN	Devices Device 360		$\bigcirc \equiv \oslash \Diamond$
w/ces > Troubleshooting > Troubleshooting Select Device vEdge-Site1   2.1.1.1 Site ID: 1 Device Model: vEdge Cl	loud 🕕		Troubleshooting 🗸
Source/Interface for VPN - 11         Source IP           PN - 11         v         ge0/2 - ipv4 - 192.168.10.254         v         192.168.10.2           ranced Options         >           192.168.10.2         192.168.10.2	Destination IP 192.168.1,100	Application https	or Custom Application (created in CLI)
			Simulate
	2.1.1.1 → mpls Remote ← mpls Encapsu	System IP 3.1.1.1 Jlation IPSec	
	→ mpls Remote ← mpls Encapsu	System IP 4.1.1.1 ulation IPSec	

Bạn sẽ thấy traffic của ứng dụng https chỉ đi qua MPLS nhờ vào Traffic Engineering Policy. Chọn **Configuration > Devices** và chọn **Change Mode > CLI Mode**.

-											
🎎 Configuration - Devices Cisco SD	× +								~ -	٥	×
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Cisco SD-WAN					De	vices				0	$\bigcirc$
				WAN Edge Li	st Controll	ers					
🗠 Monitor											
ိုပ္ပို Configuration	>	TLS/SSL Proxy								$\nabla$	
		Certificates	ivnc Smar	t Account	Add PAYG W	AN Edges					
💥 Tools		Network Design	ĺ.					Total P	our: 10 C		
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		Policies	ID R	tegion ID	Mode	Device Status	Assigned Config Group	Assigned Template	Device Mode		
2 Administration		Security	-		vManage	In Sync	-	vEdge_Site1	vEdge Cloud •		
🖓 Workflows		Network Hierarchy	-		vManage	In Sync	-	vEdge_Site2_VRRP_O	vEdge Cloud •		
E Reports		Unified Communications			vManage	In Sync	-	vEdge_Site2_VRRP_O	vEdge Cloud •		
C Analytics		Cloud onRamp for SaaS	-		CLI		-	-	vEdge Cloud •		
		Cloud onRamp for laaS	-		CLI		-	-	vEdge Cloud •		
		Cloud onRamp for Multicloud			CLI		-		vEdge Cloud •		
		Cloud onRamp for Colocation			CLI		-	-	vEdge Cloud •		
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← → C ▲ Not secure   https://192.168.1.1	:8443/#/app/config/devices/v	edge					0	2 @ \$		) :	
■ Cisco SD-WAN ③ Select Re	esource Group•			De	vices				0	Q	
			WAN Edge Lis	st Control	ers						
Q Search									$\nabla$		
Change Mode V Upload WAN Edge List E	xport Bootstrap Configuration	Sync Sr	nart Account A	Add PAYG W	AN Edges		Total F	ows: 10	∄ ≭ĝ	r	
Chassis Number Tags	Hostname	Site ID	Region ID	Mode	Device Status	Assigned Config Group	Assigned Template	Device Mode			
0b0f3c75-47c5-5e73-a557-9cf97c Add Tag -	vEdge-Site1	1	-	vManage	In Sync	-	vEdge_Site1	vEdge Cloud			
168a2add-2c4f-fcb1-6139-1d99df8 Add Tag -	vEdge1-Site2	2	-	vManage	In Sync	-	vEdge_Site2_VRRP_O	vEdge Cloud			
5316bef9-7742-d0c9-1048-df6288 Add Tag	vEdge2-Site2	2	-	vManage	In Sync	-	vEdge_Site2_VRRP_O	vEdge Cloud			
57569bb0-0758-89a6-37e7-1f8e62 Add Tag -	-	-	-	CLI		-	-	vEdge Cloud			
80060207-b2bd-a5fa-691f-723869 Add Tag	-	-	-	CLI		-	-	vEdge Cloud			
84c6527e-45e6-c5a8-c33c-fff9d8a Add Tag -	-	-	-	CLI		-	-	vEdge Cloud			
a95df91b-578a-e6a2-8da8-589f11f Add Tag -	-	-	-	CLI		-	-	vEdge Cloud			
be5ba729-6684-943c-1e91-7d6ff2 Add Tag -	-	-		CLI		-	-	vEdge Cloud			
ecf8966f-55f0-b701-b9df-717fe3ca Add Tag	-	-	-	CLI		-	-	vEdge Cloud			
f121e275-5c29-cbce-71c1-783ee2 Add Tag	-	-	-	CLI		-	-	vEdge Cloud			

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Chọn vEdge-Site1 và di chuyển nó sang phải CLI Mode. Chọn Update để CLI Mode áp dụng vào thiết bị vEdge-Site1.

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Ciner CD MAN	0.000	0			Destaura			<u> </u>
CISCO SD-WAIN	U Select Reso	ource Group♥			Devices			
			WAN Edd	e List	Controllers			
Q Search	Change M <sup>,</sup>	ode - CLI					>	< \[     \]     \[     \]
hange Mode ∽ U	Change mode to CLI from	m the list below					1 Items Selected	vs: 10 🖓 ↓ (ö)
	vManage Mode		Select All		CLI Mode		Select All	
horser5-47c5-5e73-a	Q Search		V		Q Search		$\nabla$	vEdge Cloud ***
	Name	Device IP			Name	Device IP		
58a2add-2c4f-fcb1-61	vEdge1-Site2	3.1.1.1			vEdge-Site1	2.1.1.1		vEdge Cloud ***
316bef9-7742-d0c9-1	Veogos onos							vEdge Cloud •••
7569bb0-0758-89a6-3								vEdge Cloud •••
0060207-b2bd-a5fa-6								vEdge Cloud ····
4c6527e-45e6-c5a8-c								vEdge Cloud •••
95df91b-578a-e6a2-8c								vEdge Cloud •••
e5ba729-6684-943c-1						Unders To CI I Mode	Canaal	vEdge Cloud ····
cf8966f-55f0-b701-b9						Update to CLI Mode	Cancer	vEdge Cloud •••
21e275-5c29-cbce-71c1-7	83ee2 Add Tag 🚽	-		CL	.1			vEdge Cloud •••

Vào CLI của vEdge-Site1 và tiến hành Shutdown Port ge0/1



vEdge-Site1# config terminal Entering configuration mode terminal vEdge-Site1(config)# vpn 0 vEdge-Site1(config-vpn-0)# interface ge0/1 vEdge-Site1(config-interface-ge0/1)# shutdown vEdge-Site1(config-interface-ge0/1)# commit and-quit Commit complete. vEdge-Site1#

Quay lại giao diện vManage và kiểm tra.

Monitor - Devices Cisco SDWAN 🗙	+				∨ – ∂ ×
← → C ▲ Not secure   h	ttps://192.168.1.1:8443/#/app/monit	or/devices/dashboard/troublesho	oting/simulate_flows?personality=veo	dge&systemIp=2.1.1.1&localSystem	lp=2.1.1.1&devic Q 🖻 🛧 🔲 😩 🗄
≡ Cisco SD-WAN	Select Resource Group•		Devices Device 360		
Devices > Troubleshooting > Tr	ubleshooting vEdge-Site1   2.1.1.1 Site ID: 1 Dev	ice Model: vEdge Cloud (			Troubleshooting 🗸
VPN VPN - 11	Source/Interface for VPN - 11 ge0/2 - Ipv4 - 192.168.10.254 🗸	Source IP 192.168.10.2	Destination IP 192.168.1.100	Application https	or Custom Application (created in CLI)
Advanced Options >					
					Simulate
Output:	•	> 🔀 2.1.1.1			Total next hops: 2   IPSec : 2
			→ biz-Internet Remote System ← biz-Internet Encapsulation	n IP 4.1.1.1 IPSec	
		>	→ biz-Internet Remote System ← biz-Internet Encapsulation	n IP 3.1.1.1 IPSec	
🚛 🔎 🛱 🔍 📑	📦 💽 🔤 🛃				∧ @ € 4 <mark>8</mark> 7/13/2022 🖏

Bạn sẽ thấy traffic sẽ được định tuyến lại và đi qua đường biz-internet

