# 配置ASA IPsec VTI連線Amazon Web Services

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## 簡介

本文說明如何設定調適型安全裝置(ASA)IPsec虛擬通道介面(VTI)連線。在ASA 9.7.1中,引入了 IPsec VTI。 在此版本中,它限於使用IKEv1透過IPv4進行sVTI IPv4。 這是ASA連線到Amazon Web Services(AWS)的配置示例。

**附註**:目前,僅在單情景路由模式下支援VTI。

## 配置AWS

#### 步驟1.

登入到AWS控制檯並導航到VPC面板。



導航到VPC控制面板

確認已建立虛擬私有雲(VPC)。 預設情況下,會建立具有172.31.0.0/16的VPC。這就是虛擬機器 (VM)的附加位置。

🎁 AWS 🗸 Servie	es 🖌 Edit 🗸							Jay AWS 🗸	Oregon *
VPC Dashboard	Create VPC Actions V								C
None	QSearch VPCs and their prope	×							« < 1 to 1 o
Virtual Private Cloud	Name • VPC	ID - State -	VPC CIDR	DHCP options set      ·	Route table ~	Network ACL	· Tenancy	· Default VPC	•
Your VPCs	Vpc-	e1e00786 available	172.31.0.0/16	dopt-58d5b13c	rtb-3a3f9e5d	acl-f6844591	Default	Yes	
Subnets			1						
Route Tables	vpc-e1e00786 (172.31.0.0/16)								
Internet Gateways	Summary Flow Logs	Tags							
DHCP Options Sets	VPC IE	: vpc-e1e00786		Network AC	CL: acl-f6844591				
Elastic IPs	State	available		Tenan	cy: Default				
Endpoints	DHCP options se	t: dopt-58d5b13c		DNS resolution	es: yes				
NAT Gateways	Route table	rtb-3a3f9e5d		ClassicLink DNS Suppo	ort: no				
Peering Connections									
Security									
Network ACLs									
Security Groups									
VPN Connections		De	fault VPC alre	eady created					
Customer Gateways									
Virtual Private Gateways									
VPN Connections									

#### 步驟3.

建立「客戶網關」。 這是一個表示ASA的端點。

#### 欄位 價值

名稱標籤 這是一個用於識別ASA的可讀名稱。

路由 動態 — 這表示將使用邊界閘道通訊協定(BGP)來交換路由資訊。

IP 位址 這是ASA外部介面的公共IP地址。

BGP ASN 在ASA上運行的BGP進程的自治系統(AS)編號。除非您的組織具有公共AS編號,否則使用6500

🔰 AWS 🗸 Servi	ces 🗸 Edit 🗸
VPC Dashboard	Create Customer Gateway Delete Customer Gateway
None	QSearch Customer Gateways a X
Virtual Private Cloud	Name  ID  VPC VPC
Your VPCs	Create Customer Gateway ×
Route Tables	Specify the Internet-routable IP address for your gateway's external interface; the address must be
Internet Gateways DHCP Options Sets	static and may be behind a device performing network address translation (NAT). For dynamic routing, also specify your gateway's Border Gateway Protocol (BGP) Autonomous System Number (ASN); this can be either a public or private ASN (such as those in the 64512-65534 range).
Elastic IPs	Name tag ASAVTI 0
NAT Gateways	Routing     Dynamic     Image: Constraint of the second se
Peering Connections	Cancel Yes, Create
Security	
Security Groups	
VPN Connections	
Customer Gateways	cgw-b778a1a9 (64.100.251.37)
Virtual Private Gateways	Summary Tags
VPN Connections	ID: cgw-b778a1a9 (64.100.251.37) State: deleted
	Type: ipsec.1 IP address: 64.100.251.37
	BGP ASN: 65000 VPC:

## 步驟4.

建立虛擬私人閘道(VPG)。 這是由AWS託管的終止IPsec隧道的模擬路由器。

## 欄位 價值

名稱標籤 用於識別VPG的可讀名稱。

🎁 AWS 🗸 Servi	ces 🗸 Edit 🗸
VPC Dashboard Filter by VPC:	Create Virtual Private Gateway Delete Virtual Private Gateway Attach to VPC Detach fro
Virtual Private Cloud	Name ID · State · Type · VPC
Your VPCs Subnets	Create Virtual Private Gateway ×
Route Tables Internet Gateways DHCP Options Sets Elastic IPs	A virtual private gateway is the router on the Amazon side of the VPN tunnel.          Name tag       VPG1         Cancel       Yes, Create
Endpoints NAT Gateways Peering Connections	
Security Network ACLs Security Groups	
VPN Connections Customer Gateways Virtual Private Gateways VPN Connections	Select a virtual private gateway above

## 步驟5.

將VPG連線到VPC。

選擇Virtual Private Gateway,按一下**Attach to VPC**,從VPC下拉選單中選擇VPC,然後按一下 **Yes, Attach**。

AWS Y Servic	283 Y Edit Y
VPC Dashboard	Create Virtual Private Gateway Delete Virtual Private Gateway Attach to VPC Detach from VPC
None	QSearch Virtual Private Gatewa 🗙
Virtual Private Cloud	Name ID · State · Type · VPC ·
Your VPCs	PG1 vgw-18954d06 detached ipsec.1
Subnets	
Route Tables	Attach to VPC ×
Internet Gateways	
DHCP Options Sets	Select the VPC to attach to the virtual private gateway
Elastic IPs	VPC vpc-e1e00786 (172.31.0.0/16) 🔽 🕥
Endpoints	
NAT Gateways	Cancer Tes, Attach
Peering Connections	
Security	
Network ACLs	
Security Groups	
VPN Connections	
Customer Gateways	vgw-18954d06   VPG1
Virtual Private Gateways	Summany
VPN Connections	
VEN CONTRECTIONS	State: detached
	Type: ipsec.1
	VPC:

## 步驟6.

建立VPN連線。



名稱標籤

虛擬私人閘道 選擇剛建立的VPG。

按一下Existing單選按鈕,然後選擇ASA的網關。 客戶閘道

按一下「Dynamic(requires BGP)」單選按鈕。 路由選項

AWS - Service	s 🗸 Edit 🗸	
VPC Dashboard	Create VPN Connection Delete Download Configuration	
None	QSearch VPN Connections and X	
Virtual Private Cloud	Name   VPN ID   Virtual Private Gateway  Customer Gateway	
Your VPCs	You do not ha	ave
Subnets		
Route Tables	Create VPN Connection ×	
Internet Gateways		
DHCP Options Sets	Select the virtual private gateway and customer gateway that you would like to connect via a VPN connection. You must have entered the virtual private gateway and your customer gateway information already.	
Elastic IPs		
Endpoints	Virtual Private Gateway vow-18954d06   VPG1	
NAT Gateways	Customer Gateway Existing New	
Peering Connections	cgw-837fa69d (64.100.251.37)   ASAVTI	
	Specify the routing for the VPN Connection (Help me choose)	
Security	Routing Options Opnamic (requires BGP) Static	
Network ACLs	VPN connection charges apply once this step is complete. View Rates	
Security Groups		
	Cancel Yes, Create	
VPN Connections		
Customer Gateways		
Virtual Private Gateways		
VPN Connections		

## 步驟7.

配置路由表以將從VPG(通過BGP)獲知的路由傳播到VPC。



### 步驟8.

下載建議的配置。 選擇以下值,以生成VTI樣式配置的配置。

#### 欄位 價值

供應商 Cisco Systems, Inc. 平台 ISR系列路由器 軟體 IOS 12.4+

MWS V Services V Edit V	
VPC Dashboard Filter by VPC: None  Create VPN Connection Delete Download Configuration QSearch VPN Connections and X	
Virtual Private Cloud Name - VPN ID - State - Virtual Private Gateway - Customer	Gateway
Your VPCs VPNtoASA vpn-7c79606e available vgw-18954d06   VPG1 cgw-837fa6	9d (64.1
Subnets	
Route Tables	ך
Internet Gateways Download Configuration	
DHCP Options Sets	
Elastic IPs	
Endpoints Pick Platform ISR Series Routers 🔽 🛈	
NAT Gateways IOS Software IOS 12.4+	
Peering Connections	
Security	
Network ACLs	
Security Groups	
VPN Connections	
Customer Gateways	
Virtual Private Gateways	
VPN Connections	



下載組態後,需要進行某些轉換。

```
步驟1.
```

crypto isakmp policy to crypto ikev1 policy。 只需要一個策略,因為策略200和策略201是相同的。

### 建議的配置

crypto isakmp policy 200 aes 128 2

```
lifetime 28800
hash sha
exit
crypto isakmp policy 201
aes 128
```

#### 成長至

crypto ikev1 enable outside crypto ikev110 aes hash sha 2

lifetime 28800

#### 2 lifetime 28800

hash sha exit

#### 步驟2.

crypto ipsec transform-set到crypto ipsec ikev1 transform-set。 只需要一個轉換集,因為兩個轉換 集是相同的。

#### 建議的配置

crypto ipsec transform-set ipsec-prop-vpn-7c79606e-0 esp-aes 128 esp-sha-hmac

exit crypto ipsec transform-set ipsec-prop-vpn-7c79606e-1 esp-aes 128 esp-sha-hmac crypto ipsec ikev1 transform AWS esp-aes esp-sha-hmac

成長至

成長至

#### exit

#### 步驟3.

crypto ipsec profile to crypto ipsec profile。由於兩個配置檔案相同,因此只需要一個配置檔案。

建議的配置	成長至
crypto ipsec profile ipsec-vpn-7c79606e-0	
set pfs group2	
set security-association lifetime seconds	
3600	crupto insoc profile AWS
set transform-set ipsec-prop-vpn-7c79606e-0	set ikew1 transform-set AWS
exit	set nfs group?
crypto ipsec profile ipsec-vpn-7c79606e-1	set security-association life
set pfs group2	seconds 3600
set security-association lifetime seconds	Seconds 5000
3600	
set transform-set ipsec-prop-vpn-7c79606e-1	
exit	

#### 步驟4.

需要將每個通道的加密金鑰環和加密isakmp配置檔案轉換為隧道組配置檔案。

#### 建議的配置

crypto keyring keyring-vpn-7c79606e-0	tunnel-group
local-address 64.100.251.37	52.34.205.227 type
52.34.205.227QZhh90Bjf	ipsec-121
exit	tunnel-group
!	52.34.205.227 ipsec
crypto isakmp profile isakmp-vpn-7c79606e-0	attributes
local-address 64.100.251.37	ikev1QZhh90Bjf
match identity address 52.34.205.227	isakmp keepalive10
keyring keyring-vpn-7c79606e-0	tunnel-group
exit	52.37.194.219 type
!	ipsec-121
crypto keyring keyring-vpn-7c79606e-1	tunnel-group
local-address 64.100.251.37	52.37.194.219 ipsec

```
52.37.194.219JjxCWy4Ae
exit
!
crypto isakmp profile isakmp-vpn-7c79606e-1
local-address 64.100.251.37
match identity address 52.37.194.219
keyring keyring-vpn-7c79606e-1
exit
```

```
attributes
ikev1JjxCWy4Ae
isakmp keepalive10
```

#### 步驟5.

通道組態幾乎完全相同。ASA不支援ip tcp adjust-mss或ip virtual-reassembly命令。

#### 建議的配置

interface Tunnel1	
ip address 169.254.13.190 255.255.255.252	interface Tunnel1
ip virtual-reassembly	nameif AWS1
64.100.251.37	ip address 169.254.13.190
52.34.205.227	255.255.255.252
ipsec ipv4	
ipsecipsec-vpn-7c79606e-0	52.34.205.227
ip tcp adjust-mss 1387	ipsec ipv4
no shutdown	tunnel protection ipsec prof
exit	AWS
!	!
2	2
ip address 169.254.12.86 255.255.255.252	nameif AWS2
ip virtual-reassembly	ip address 169.254.12.86
64.100.251.37	255.255.255.252
52.37.194.219	
ipsec ipv4	52.37.194.219
ipsecipsec-vpn-7c79606e-1	ipsec ipv4
ip tcp adjust-mss 1387	tunnel protection ipsec prof
no shutdown	AWS
exit	

#### 步驟6.

在本示例中,ASA將僅通告內部子網(192.168.1.0/24)並在AWS(172.31.0.0/16)內接收該子網。

#### 建議的配置

```
router bgp 65000
neighbor 169.254.13.189 remote-as 7224
neighbor 169.254.13.189 activate
neighbor 169.254.13.189 timers 10 30 30
address-family ipv4 unicast
neighbor 169.254.13.189 remote-as 7224
neighbor 169.254.13.189 timers 10 30 30
neighbor 169.254.13.189 default-originate
neighbor 169.254.13.189 activate
neighbor 169.254.13.189 soft-reconfiguration
inbound
0.0.0.0
exit
```

#### 成長至

成長至

router bgp 65000
bgp log-neighbor-changes
timers bgp 10 30 0
address-family ipv4 unica
neighbor 169.254.12.85
remote-as 7224
neighbor 169.254.13.189
remote-as 7224
neighbor 169.254.13.189
activate
192.168.1.0

```
exit
router bgp 65000
 neighbor 169.254.12.85 remote-as 7224
 neighbor 169.254.12.85 activate
 neighbor 169.254.12.85 timers 10 30 30
 address-family ipv4 unicast
  neighbor 169.254.12.85 remote-as 7224
                                                    no auto-summary
  neighbor 169.254.12.85 timers 10 30 30
  neighbor 169.254.12.85 default-originate
                                                   exit-address-family
  neighbor 169.254.12.85 activate
  neighbor 169.254.12.85 soft-reconfiguration
inbound
  0.0.0.0
  exit
exit
```

## 驗證和最佳化

#### 步驟1.

確認ASA與AWS的兩個終端建立IKEv1安全關聯。SA的狀態應為MM\_ACTIVE。

ASA# show crypto ikev1 sa

IKEv1 SAs:

```
Active SA: 2

Rekey SA: 0 (A tunnel will report 1 Active and 1 Rekey SA during rekey)

Total IKE SA: 2

1 IKE Peer: 52.37.194.219

Type : L2L Role : initiator

Rekey : no State : MM_ACTIVE

2 IKE Peer: 52.34.205.227

Type : L2L Role : initiator

Rekey : no State : MM_ACTIVE

ASA#
```

#### 步驟2.

確認ASA上安裝了IPsec SA。應該為每個對等裝置安裝入站和出站SPI,並且應該會增加一些 encaps和decaps計數器。

```
ASA# show crypto ipsec sa
interface: AWS1
Crypto map tag: __vti-crypto-map-5-0-1, seq num: 65280, local addr: 64.100.251.37
access-list __vti-def-acl-0 extended permit ip any any
local ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
current_peer: 52.34.205.227
```

```
#pkts decaps: 1234, #pkts decrypt: 1234, #pkts verify: 1234
      #pkts compressed: 0, #pkts decompressed: 0
      #pkts not compressed: 2234, #pkts comp failed: 0, #pkts decomp failed: 0
      #pre-frag successes: 0, #pre-frag failures: 0, #fragments created: 0
      #PMTUs sent: 0, #PMTUs rcvd: 0, #decapsulated frgs needing reassembly: 0
      #TFC rcvd: 0, #TFC sent: 0
      #Valid ICMP Errors rcvd: 0, #Invalid ICMP Errors rcvd: 0
      #send errors: 0, #recv errors: 0
      local crypto endpt.: 64.100.251.37/4500, remote crypto endpt.: 52.34.205.227/4500
      path mtu 1500, ipsec overhead 82(52), media mtu 1500
      PMTU time remaining (sec): 0, DF policy: copy-df
      ICMP error validation: disabled, TFC packets: disabled
      current outbound spi: 874FCCF3
      current inbound spi : 5E653906
    inbound esp sas:
      spi: 0x5E653906 (1583692038)
         transform: esp-aes esp-sha-hmac no compression
         in use settings ={L2L, Tunnel, NAT-T-Encaps, PFS Group 2, IKEv1, VTI, }
         slot: 0, conn_id: 73728, crypto-map: __vti-crypto-map-5-0-1
         sa timing: remaining key lifetime (kB/sec): (4373986/2384)
         IV size: 16 bytes
         replay detection support: Y
         Anti replay bitmap:
          Oxffffffff Oxfffffff
    outbound esp sas:
      spi: 0x874FCCF3 (2270153971)
         transform: esp-aes esp-sha-hmac no compression
         in use settings ={L2L, Tunnel, NAT-T-Encaps, PFS Group 2, IKEv1, VTI, }
         slot: 0, conn_id: 73728, crypto-map: __vti-crypto-map-5-0-1
         sa timing: remaining key lifetime (kB/sec): (4373986/2384)
         IV size: 16 bytes
         replay detection support: Y
         Anti replay bitmap:
          0x0000000 0x0000001
interface: AWS2
    Crypto map tag: __vti-crypto-map-6-0-2, seq num: 65280, local addr: 64.100.251.37
      access-list __vti-def-acl-0 extended permit ip any any
      local ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
      remote ident (addr/mask/prot/port): (0.0.0.0/0.0.0.0/0/0)
      current_peer: 52.37.194.219
      #pkts encaps: 1230, #pkts encrypt: 1230, #pkts digest: 1230
      #pkts decaps: 1230, #pkts decrypt: 1230, #pkts verify: 1230
      #pkts compressed: 0, #pkts decompressed: 0
      #pkts not compressed: 1230, #pkts comp failed: 0, #pkts decomp failed: 0
      #pre-frag successes: 0, #pre-frag failures: 0, #fragments created: 0
      \texttt{\#PMTUs}\ \texttt{sent:}\ \texttt{0},\ \texttt{\#PMTUs}\ \texttt{rcvd:}\ \texttt{0},\ \texttt{\#decapsulated}\ \texttt{frgs}\ \texttt{needing}\ \texttt{reassembly:}\ \texttt{0}
      #TFC rcvd: 0, #TFC sent: 0
      #Valid ICMP Errors rcvd: 0, #Invalid ICMP Errors rcvd: 0
      #send errors: 0, #recv errors: 0
      local crypto endpt.: 64.100.251.37/4500, remote crypto endpt.: 52.37.194.219/4500
      path mtu 1500, ipsec overhead 82(52), media mtu 1500
      PMTU time remaining (sec): 0, DF policy: copy-df
      ICMP error validation: disabled, TFC packets: disabled
      current outbound spi: DC5E3CA8
      current inbound spi : CB6647F6
```

```
spi: 0xCB6647F6 (3412477942)
    transform: esp-aes esp-sha-hmac no compression
    in use settings ={L2L, Tunnel, NAT-T-Encaps, PFS Group 2, IKEv1, VTI, }
    slot: 0, conn_id: 77824, crypto-map: __vti-crypto-map-6-0-2
    sa timing: remaining key lifetime (kB/sec): (4373971/1044)
    IV size: 16 bytes
    replay detection support: Y
    Anti replay bitmap:
     OxFFFFFFFF OxFFFFFFFF
outbound esp sas:
 spi: 0xDC5E3CA8 (3697163432)
    transform: esp-aes esp-sha-hmac no compression
     in use settings ={L2L, Tunnel, NAT-T-Encaps, PFS Group 2, IKEv1, VTI, }
    slot: 0, conn_id: 77824, crypto-map: __vti-crypto-map-6-0-2
     sa timing: remaining key lifetime (kB/sec): (4373971/1044)
    IV size: 16 bytes
    replay detection support: Y
    Anti replay bitmap:
     0x0000000 0x0000001
```

#### 步驟3.

#### 在ASA上,確認已與AWS建立BGP連線。 當AWS向ASA通告172.31.0.0/16子網時 ,State/PfxRcd計數器應為1。

ASA# show bgp summary BGP router identifier 192.168.1.55, local AS number 65000 BGP table version is 5, main routing table version 5 2 network entries using 400 bytes of memory 3 path entries using 240 bytes of memory 3/2 BGP path/bestpath attribute entries using 624 bytes of memory 1 BGP AS-PATH entries using 24 bytes of memory 0 BGP route-map cache entries using 0 bytes of memory 0 BGP filter-list cache entries using 0 bytes of memory BGP using 1288 total bytes of memory BGP activity 3/1 prefixes, 4/1 paths, scan interval 60 secs

Neighbor	V	AS	MsgRcvd	MsgSent	t TblVer	InQ	OutQ	Up/Down	State/PfxRcd
169.254.12.85	4	7224	1332	1161	5	0	0	03:41:31	1
169.254.13.189	4	7224	1335	1164	5	0	0	03:42:02	1

#### 步驟4.

在ASA上,驗證是否已通過隧道介面獲知到172.31.0.0/16的路由。 此輸出顯示,從對等點 169.254.12.85和169.254.13.189到172.31.0.0有兩條路徑。由於度量較低,通向169.254.13.189外 部隧道2(AWS2)的路徑是優先使用路徑。

ASA# show bgp

	Network	Next Hop	Metric	LocPrf	Weight	Path	
*	172.31.0.0	169.254.12.85	200		0	7224 i	
*>		169.254.13.189	100		0	7224 i	
*>	192.168.1.0	0.0.0.0	0		32768	i	

#### ASA# show route

```
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, V - VPN
       i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
       ia - IS-IS inter area, * - candidate default, U - per-user static route
       o - ODR, P - periodic downloaded static route, + - replicated route
Gateway of last resort is 64.100.251.33 to network 0.0.0.0
S*
         0.0.0.0 0.0.0.0 [1/0] via 64.100.251.33, outside
С
         64.100.251.32 255.255.255.224 is directly connected, outside
         64.100.251.37 255.255.255.255 is directly connected, outside
L
С
         169.254.12.84 255.255.255.252 is directly connected, AWS2
         169.254.12.86 255.255.255.255 is directly connected, AWS2
L
         169.254.13.188 255.255.255.252 is directly connected, AWS1
С
Τ.
        169.254.13.190 255.255.255.255 is directly connected, AWS1
         172.31.0.0 255.255.0.0 [20/100] via 169.254.13.189, 03:52:55
в
С
         192.168.1.0 255.255.255.0 is directly connected, inside
         192.168.1.55 255.255.255.255 is directly connected, inside
T.
```

#### 步驟5.

為確保從AWS返回的流量遵循對稱路徑,請配置route-map以匹配首選路徑,並調整BGP以更改通 告的路由。

```
route-map toAWS1 permit 10
set metric 100
exit
!
route-map toAWS2 permit 10
set metric 200
exit
!
router bgp 65000
address-family ipv4 unicast
neighbor 169.254.12.85 route-map toAWS2 out
neighbor 169.254.13.189 route-map toAWS1 out
步蹊6.
```

## 在ASA上,確認192.168.1.0/24已通告給AWS。

#### ASA# show bgp neighbors 169.254.12.85 advertised-routes

	Network	Next Hop	Metric	LocPrf	Weight	Path
*>	172.31.0.0	169.254.13.189	100		0	7224 i
*>	192.168.1.0	0.0.0.0	0		32768	i

Total number of prefixes 2 ASA# show bgp neighbors 169.254.13.189 advertised-routes

Total number of prefixes 1

### 步驟7.

在AWS中,確認VPN連線的隧道為UP,並且路由是從對等項獲知的。此外,檢查該路由是否已傳 播到路由表中。

🎁 AWS 🗸 Servic	Edit v	Jay AWS 👻								
VPC Dashboard	Create VPN Connection Delete Download Configuration									
None	QSearch VPN Connections and X									
Virtual Private Cloud	Name VPN ID · State · Virtual Private Gateway · Customer Gateway · Customer Gateway Address · Type · VPC ·	Routing								
Your VPCs	VPNtoASA vpr-7c79606e available vgw-18954d06   VPG1 cgw-837fa69d (64.100.251.37)   ASAVTI 64.100.251.37 ipsec.1 vpc-e1e00786 (172.31.0.0/16)	Dynamic								
Subnets										
Route Tables										
Internet Gateways										
DHCP Options Sets										
Elastic IPs										
Endpoints										
NAT Gateways										
Peering Connections	vpn-7c79606e   VPNtoASA									
Security	Summary Tunnel Details Static Routes Tags									
Network ACLs	VPN Tunnel IP Address Status Status Last Changed Details									
Security Groups	Tunnel 1 52.34.205.227 UP 2016-10-18 14:23 UTC 4 1 BGP ROUTES									
VPN Connections	Tunnel 2 52.37.194.219 UP 2016-10-18 14:23 UTC 1 BGP ROUTES									
Customer Gateways										
Virtual Private Gateways										
VPN Connections										

T AWS V Services V Edit V											
VPC Dashboard	Create Route Table Delete Route Table Set As Main Table										
None	QSearch Route Tables and their X										
Virtual Private Cloud	Name	<b>▲</b>	- Route Tab		ble ID - Explicitly As		Main 👻	VPC		-	
Your VPCs			rtb-3a3f9e5d 0		0 Subnets		Yes vpc-e1e00786 (172.3		.31.0.0/16)		
Subnets											
Route Tables											
Internet Gateways											
DHCP Options Sets											
Elastic IPs											
Endpoints											
NAT Gateways											
Peering Connections	rtb-3a3f9e5d										
Security	Summary	Route	s	Subnet Asso	ciations	Route P	ropagation	Tags			
Network ACLs	Edit										
Security Groups	Destination	Target	Status	Propagate	d						
VPN Connections	172.31.0.0/16	local	Active	No							
Customer Gateways	0.0.0/0	igw-e5ad1481	Active	No							
Virtual Private Gateways	192.168.1.0/24	vgw-18954d06	Active	Yes							
VPN Connections											