

# é... ç½®å^°Azureçš,,ASA IPsec VTIé€£ç·š

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9.8.1 ä¿¼CEIPsec  
VTIåŠÿèf½å²æ””å±•ç,°å½ç””IKEv2i¼CEä½†æ¬—i¼CEå®fä»¶ç,,¶èç«é™è£½ç,°é€šéŽIPv4çš,,sVTI  
IPv4ã€æœé... ç½®æCE†å—æ¬—ä½ç”” ASA  
CLIä»«éçå’CEAzureé—æè¶Ÿç”Ÿæ^çš,,ã€,Azureé—æè¶Ÿçš,,é... ç½®ä¹ÿä¬ä»¶ç±PowerShellæ¬—API

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- Azureå,æ^¶

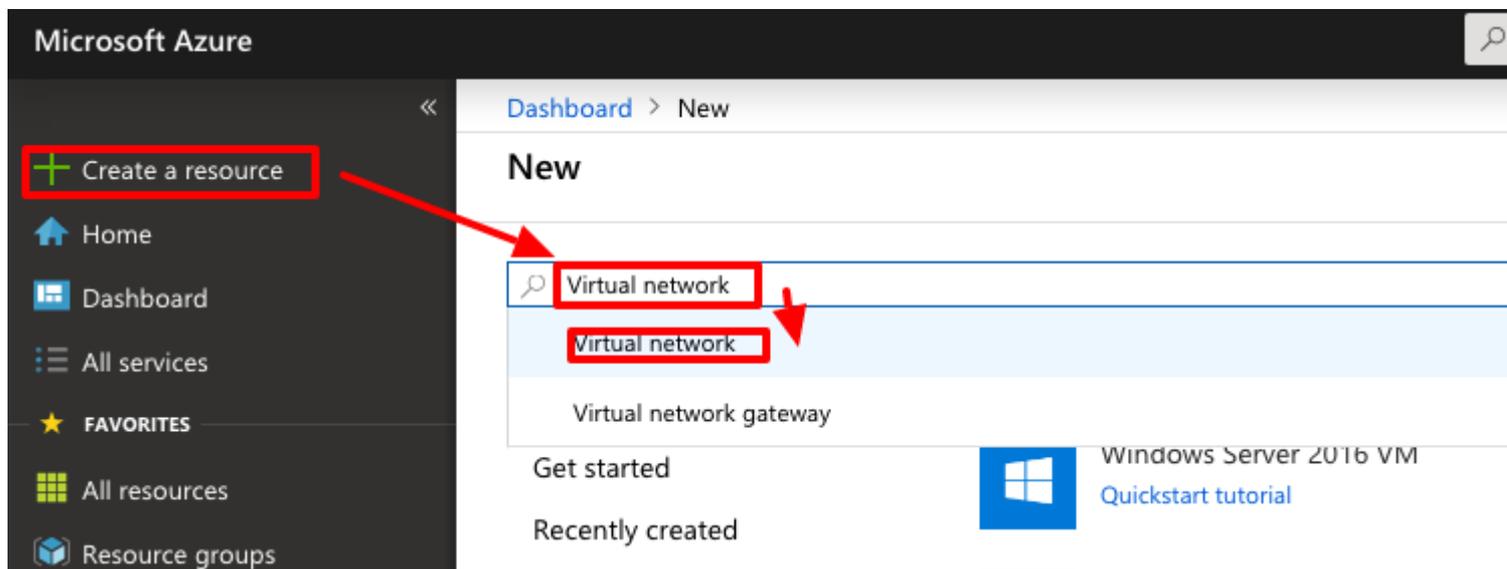
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### Create virtual network

**Name**  
 ✓

**Address space** ⓘ  
 ✓  
 10.1.0.0 - 10.1.255.255 (65536 addresses)

**Subscription**  
 ▼

**Resource group**  
 ▼  
[Create new](#)

**Location**  
 ▼

**Subnet**

**Name**

**Address range** ⓘ  
 ✓  
 10.1.0.0 - 10.1.0.255 (256 addresses)

**DDoS protection** ⓘ  
 Basic  Standard

**Service endpoints** ⓘ

**Firewall**

10.1.0.0/24	10.1.0.0 - 10.1.0.255 (256 addresses)
10.1.0.0/16	10.1.0.0 - 10.1.255.255 (65536 addresses)
10.1.0.0/24	10.1.0.0 - 10.1.0.255 (256 addresses)
10.1.0.0/24	10.1.0.0 - 10.1.0.255 (256 addresses)

10.1.0.0/24

10.1.0.0/24

**AzureNetworks - Subnets**  
Virtual network

Search (Ctrl+/)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Settings
  - Address space
  - Connected devices
  - Subnets**
  - DDoS protection

+ Subnet **+ Gateway subnet**

Search subnets

NAME
default

**Add subnet**  
AzureNetworks

- Name: GatewaySubnet
- Address range (CIDR block): 10.1.1.0/24  
10.1.1.0 - 10.1.1.255 (251 + 5)
- Route table: None
- Service endpoints: 0 selected
- Subnet delegation: None

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é€™æ~åœ“é²ä,è—ç@jçš,,VPNç«“é»žã€,é€™æ~ASAç””ä¼†æ§«å»°°IPsecéšš“çš,,è£ç½@ã€,æ¥æ¥é©ÿé,,

**New**

virtual network gat

virtual network gat

**Virtual network gateway**

Get started

## Create virtual network gateway

Azure has provided a planning and design guide to help you configure the various VPN gateway options. [Learn more.](#)

Name

Gateway type  
 VPN  ExpressRoute

VPN type  
 Route-based  Policy-based

\* SKU

Enable active active mode

\* Virtual network

\* Public IP address  
 Create new  Use existing

### Configure public IP address

SKU

Basic

\* Assignment

Dynamic  Static

Configure BGP ASN

\* Autonomous system number (ASN)

\* Subscription

Resource group

## Choose virtual network

To associate a virtual network with a VPN gateway, the virtual network must contain a valid gateway subnet. [Learn more](#)

These are the virtual networks in the selected subscription and location 'Central US'.

AzureNetworks-CX-SecurityTls-Res

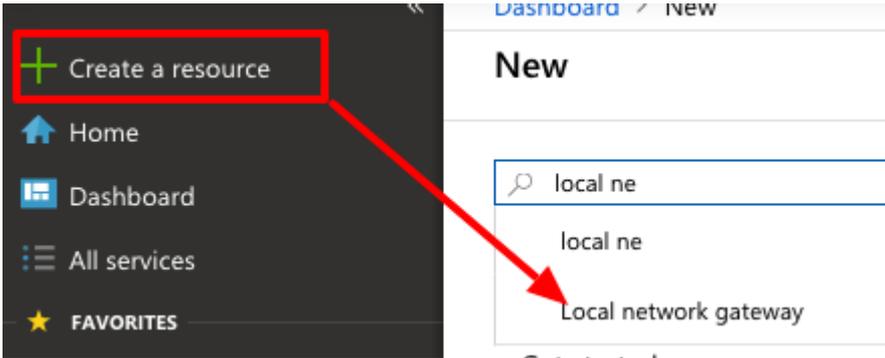


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ç”é—œž&^Ÿ	é„æ“#VPNi¼Œâ> ç,°é™æ~IPsec VPN
VPNâž&^Ÿ	é„æ“#âŸ°æ-¼è¬ç”±i¼Œâ> ç,°é™æ~VTIã€„âš â¬tâ°æ~VPNâ@Œæ^
SKU	éœœè„æ 1æ“šæ%œœœœçš,,æµ„é†é†é†é„æ“#VpnGw1æ^—æ>é«~ç%œ

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â...-æœ%IPâœ°â	â»°ç«æ-°çš,,IPâœ°â€ä, ç,°è³†æ°â^té...âç”±
è·â@šBGP ASN	é,ä,æææjâ-âœ°éè·ä,šâ·ÿç” BGP
ASN	â°†ææé ...ä;ç·™ç,°éè”65515é...ã€é€™æ~ASN Azureâ°†è†â·±éj”ç

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### Create local network gate... □ ×

\* Name  
 ✓

\* IP address ⓘ  
 ✓

Address space ⓘ  
 ...  
 ...

Configure BGP settings

\* Autonomous system number (ASN) ⓘ  
 ✓

\* BGP peer IP address  
 ✓

\* Subscription  
 ▾

\* Resource group ⓘ  
 ▾  
[Create new](#)

\* Location  
 ▾

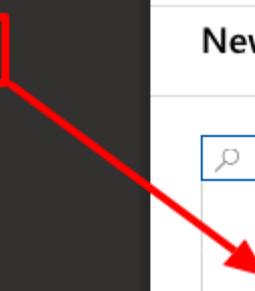
asa	ASAçš,,âçç±
IP 1/2ââ€	ASAâ-éf"â»«éççš,,â...-ç""IPâœ°
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ASN	æâASNæ~âœ°ASAä,Šé...ç½®çš,,
BGPâ°ç%oIPâœ°ââ€	âœ°ASA VTIä»«éççä,Šé...ç½®IPâœ°ââ€

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- + Create a resource
- ↑ Home
- ⌘ Dashboard
- ☰ All services
- ★ FAVORITES

### New

- Connec
- Connection



## Create connection

- 1** Basics  
Configure basic settings >
- 2 Settings  
Configure connection settings >
- 3 Summary  
Review and create >

## Basics

- \* Connection type ⓘ  
Site-to-site (IPsec) ▾
- \* Subscription  
Microsoft Azure Enterprise ▾
- \* Resource group ⓘ  
CX-SecurityTLs-ResourceGroup ▾  
[Create new](#)
- \* Location  
Central US ▾

## Create connection

- 1 Basics  
Configure basic settings ✓
- 2** Settings  
Configure connection settings >
- 3 Summary  
Review and create >

## Settings

- \* Virtual network gateway ⓘ  
VNGW1 >
- \* Local network gateway ⓘ  
ASA >
- \* Connection name  
VNGW1-ASA ✓
- \* Shared key (PSK) ⓘ  
ChooseSomeSecretPassword ✓
- Enable BGP ⓘ

**i** To enable BGP, the SKU has to be Standard or higher.

### Create connection



### Summary

1 Basics  
Configure basic settings ✓

2 Settings  
Configure connection settings ✓

3 Summary  
Review and create >

#### Basics

Connection type Site-to-site (IPsec)  
Subscription Microsoft Azure Enterprise  
Resource Group CX-SecurityTls-ResourceGroup  
Location Central US

#### Settings

Virtual network gateway VNGW1  
Local network gateway ASA  
Connection name VNGW1-ASA  
Shared key (PSK) ChooseSomeSecretPassword

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```
crypto ikev2 policy 10
  encryption aes-gcm-256 aes-gcm-192 aes-gcm
  integrity null
  group 14 5 2
  prf sha512 sha384 sha256 sha
  lifetime seconds 86400
crypto ikev2 policy 20
  encryption aes-256 aes-192 aes
  integrity sha512 sha384 sha256 sha
  group 14 5 2
  prf sha512 sha384 sha256 sha
  lifetime seconds 86400
crypto ikev2 enable outside
```

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```
crypto ipsec ikev2 ipsec-proposal AZURE-PROPOSAL
  protocol esp encryption aes-256
  protocol esp integrity sha-256
crypto ipsec profile AZURE-PROPOSAL
  set ikev2 ipsec-proposal AZURE-PROPOSAL
```

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# VNGW1

Virtual network gateway

Move Delete

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

### Settings

- Configuration
- Connections

Resource group (change)  
 CX-SecurityTLs-ResourceGroup

Location  
 Central US

Subscription (change)  
 Microsoft Azure Enterprise

Subscription ID  
 dc4d0d63-bcde-4e95-bd95-b44bfb1eb8fb

SKU  
 VpnG  
 Gatew  
 VPN  
 VPN t  
 Route  
 Virtua  
 Azure

Tags (change)  
[Click here to add tags](#)

Public  
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```
group-policy AZURE internal
group-policy AZURE attributes
  vpn-tunnel-protocol ikev2
tunnel-group A.A.A.A type ipsec-l2l
tunnel-group A.A.A.A general-attributes
  default-group-policy AZURE
tunnel-group A.A.A.A ipsec-attributes
  ikev2 remote-authentication pre-shared-key *****
  ikev2 local-authentication pre-shared-key *****
```

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```
interface Tunnel1
nameif AZURE
ip address 192.168.100.1 255.255.255.252
tunnel source interface outside
tunnel destination A.A.A.A
tunnel mode ipsec ipv4
tunnel protection ipsec profile AZURE-PROPOSAL
no shutdown
```

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åœ" ASAä, Ši¼CEé... ç½®â¾žVTIéššé"æCE†â'10.1.2.254çš,,éœæ...è-ç"±ã€„,åœ" æœ-çª°ä¾¾ä, i¼

```
route AZURE 10.1.2.254 255.255.255.255 192.168.100.2 1
```

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```
router bgp 65000
  bgp log-neighbor-changes
  bgp graceful-restart
  address-family ipv4 unicast
    neighbor 10.1.2.254 remote-as 65515
    neighbor 10.1.2.254 ebgp-multihop 255
    neighbor 10.1.2.254 activate
  network 192.168.2.0
  network 192.168.100.0 mask 255.255.255.252
  no auto-summary
  no synchronization
  exit-address-family
```

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```
route AZURE 10.1.0.0 255.255.0.0 192.168.100.2 1
```

```
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```

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```

```
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```

```
æ¥é©ÿ1. é©—è%œ~â|â²äl½ç”” show crypto ikev2 saâ»°ç««IKEv2æœfè©±ã€,
```

```
<#root>
```

```
ciscoasa# show crypto ikev2 sa
```

```
IKEv2 SAs:
```

```
Session-id:6, Status:UP-ACTIVE, IKE count:1, CHILD count:1
```

```
Tunnel-id Local Remote  
2006974029 B.B.B.B. /500 A.A.A.A/500
```

```
READY
```

```
INITIATOR
```

```
Encr: AES-CBC, keysize: 256, Hash: SHA96, DH Grp:2, Auth sign: PSK, Auth verify: PSK  
Life/Active Time: 86400/4640 sec
```

```
Child sa: local selector 0.0.0.0/0 - 255.255.255.255/65535  
remote selector 0.0.0.0/0 - 255.255.255.255/65535  
ESP spi in/out: 0x74e90416/0xba17723a
```

```
æ¥é©ÿ2. é©—è%œ~â|ä¹ÿä½ç”” show crypto ipsec saâ¹½ä»â”â¹IPsec SAã€,
```

```
<#root>
```

```
ciscoasa# show crypto ipsec sa
```

```
interface: AZURE
```

```
Crypto map tag: __vti-crypto-map-3-0-1, seq num: 65280, local addr: B.B.B.B
```

```
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: A.A.A.A
```

```
#pkts encaps: 240,
```

```
#pkts encrypt: 240, #pkts digest: 240
```

```
#pkts decaps: 377
```

```
, #pkts decrypt: 377, #pkts verify: 377
```

```
#pkts compressed: 0, #pkts decompressed: 0
```

```
#pkts not compressed: 240, #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.: B.B.B.B/500, remote crypto endpt.: A.A.A.A/500
path mtu 1500, ipsec overhead 78(44), media mtu 1500
PMTU time remaining (sec): 0, DF policy: copy-df
ICMP error validation: disabled, TFC packets: disabled
current outbound spi: BA17723A
current inbound spi : 74E90416
```

inbound esp sas:

**spi: 0x74E90416 (1961427990)**

**SA State: active**

```
transform: esp-aes-256 esp-sha-256-hmac no compression
in use settings ={L2L, Tunnel, IKEv2, VTI, }
slot: 0, conn_id: 1722, crypto-map: __vti-crypto-map-3-0-1
sa timing: remaining key lifetime (kB/sec): (3962863/24100)
IV size: 16 bytes
replay detection support: Y
Anti replay bitmap:
0xFFFFFFFF 0xFFFFFFFF
```

outbound esp sas:

**spi: 0xBA17723A (3122098746)**

**SA State: active**

```
transform: esp-aes-256 esp-sha-256-hmac no compression
in use settings ={L2L, Tunnel, IKEv2, VTI, }
slot: 0, conn_id: 1722, crypto-map: __vti-crypto-map-3-0-1
sa timing: remaining key lifetime (kB/sec): (4008947/24100)
IV size: 16 bytes
replay detection support: Y
Anti replay bitmap:
0x00000000 0x00000001
```

ciscoasa#

æ¥é©ÿ3. ä½ç””pingâ’Eping

tcpé©—è%œ€š€”è^†BGPé”ç«è·ç”±â™”çš,,é€ç·šï¼€ä»¥ä¾¼žâœ”ä½ç””éœæ...è·ç”±æ™,é©—è

<#root>

ciscoasa#

ping 10.1.2.254

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.1.2.254, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 40/42/50 ms

ciscoasa#

```
ping tcp 10.1.2.254 179
```

```
Type escape sequence to abort.
No source specified. Pinging from identity interface.
Sending 5 TCP SYN requests to 10.1.2.254 port 179
from 192.168.100.1, timeout is 2 seconds:
```

```
!!!!
```

```
Success rate is 100 percent (5/5), round-trip min/avg/max = 41/42/42 ms
ciscoasa#
```

```
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```

```
<#root>
```

```
ciscoasa#
```

```
show bgp summary
```

```
BGP router identifier 192.168.100.1, local AS number 65000
BGP table version is 6, main routing table version 6
4 network entries using 800 bytes of memory
5 path entries using 400 bytes of memory
2/2 BGP path/bestpath attribute entries using 416 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 1640 total bytes of memory
BGP activity 14/10 prefixes, 17/12 paths, scan interval 60 secs
```

Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	State/PfxRcd
10.1.2.254	4	65515	73	60	6	0	0		

```
01:02:26 3
```

```
ciscoasa#
```

```
show bgp neighbors 10.1.2.254 routes
```

```
BGP table version is 6, local router ID is 192.168.100.1
Status codes: s suppressed, d damped, h history, * valid, > best, i - internal,
r RIB-failure, S Stale, m multipath
Origin codes: i - IGP, e - EGP, ? - incomplete
```

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 10.1.0.0/16	10.1.2.254			0	65515 i <<< This is the virtual network defi
* 192.168.100.0/30	10.1.2.254			0	65515 i
r> 192.168.100.1/32	10.1.2.254			0	65515 i

```
Total number of prefixes 3
```

```
ciscoasa#
```

```
show bgp neighbors 10.1.2.254 advertised-routes
```

BGP table version is 6, local router ID is 192.168.100.1  
Status codes: s suppressed, d damped, h history, \* valid, > best, i - internal,  
r RIB-failure, S Stale, m multipath  
Origin codes: i - IGP, e - EGP, ? - incomplete

Network	Next Hop	Metric	LocPrf	Weight	Path
*> 192.168.2.0	0.0.0.0	0		32768	i <<< These are the routes being advert
*> 192.168.100.0/30	0.0.0.0	0		32768	i <<<

Total number of prefixes 2  
ciscoasa#  
ciscoasa#

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 10.1.251.33 to network 0.0.0.0

```
S* 0.0.0.0 0.0.0.0 [1/0] via B.B.B.C, outside
B 10.1.0.0 255.255.0.0 [20/0] via 10.1.1.254, 01:03:33

S 10.1.2.254 255.255.255.255 [1/0] via 192.168.100.2, AZURE
C B.B.B.A 255.255.255.224 is directly connected, outside
L B.B.B.B 255.255.255.255 is directly connected, outside
C 192.168.2.0 255.255.255.0 is directly connected, inside
L 192.168.2.2 255.255.255.255 is directly connected, inside
C 192.168.100.0 255.255.255.252 is directly connected, AZURE
L 192.168.100.1 255.255.255.255 is directly connected, AZURE
```

VMã€

<#root>

ciscoasa# p  
ing 10.1.0.4

Type escape sequence to abort.  
Sending 5, 100-byte ICMP Echos to 10.1.0.4, timeout is 2 seconds:

!!!!

Success rate is 100 percent (5/5), round-trip min/avg/max = 40/42/50 ms

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Dashboard > Resource groups > CX-SecurityTLs-ResourceGroup > jyoungta-ubuntu-azure - Diagnose and solve problems

## Effective routes

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Scope Virtual machine (jyoungta-ubuntu-azure)

Network interface jyoungta-ubuntu-azur956

## Effective routes

SOURCE	STATE	ADDRESS PREFIXES	NEXT HOP TYPE	NEXT HOP IP
Default	Active	10.1.0.0/16	Virtual network	-
Virtual network gateway	Active	192.168.100.0/30	Virtual network gateway	-
Virtual network gateway	Active	192.168.100.1/32	Virtual network gateway	-
Virtual network gateway	Active	192.168.2.0/24	Virtual network gateway	-
Default	Active	0.0.0.0/0	Internet	-
Default	Active	10.0.0.0/8	None	-
Default	Active	100.64.0.0/10	None	-
Default	Active	172.16.0.0/12	None	-
Default	Active	192.168.0.0/16	None	-

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## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。