

# 在Azure中部署安全訪問資源聯結器

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## 簡介

本文檔介紹如何在Azure中逐步部署資源聯結器。

## 必要條件

收集所需資訊並瞭解

- 獲取聯結器影象。
  - 您可以下載映像一次，並將其用於任意聯結器組中的任意數量的聯結器。
  - 如果您使用先前下載的映像，請確保該映像是最新版本。
  - 有關詳細資訊，請參閱[獲取聯結器影象](#)。
- 複製為其部署聯結器的特定聯結器組的設定金鑰。  
請參閱[資源聯結器的調配金鑰](#)。

## 需求

思科建議您瞭解以下主題：

- Cisco Secure Access控制面板管理員訪問許可權
- Azure門戶訪問
- 思科安全使用者端
- 已註冊ZTA的Windows電腦

## 採用元件

本文中的資訊是根據在實驗室環境中使用下列元件執行的測試而得：

- ZTNA使用者端
- 安全訪問
- Azure
- 專用資源

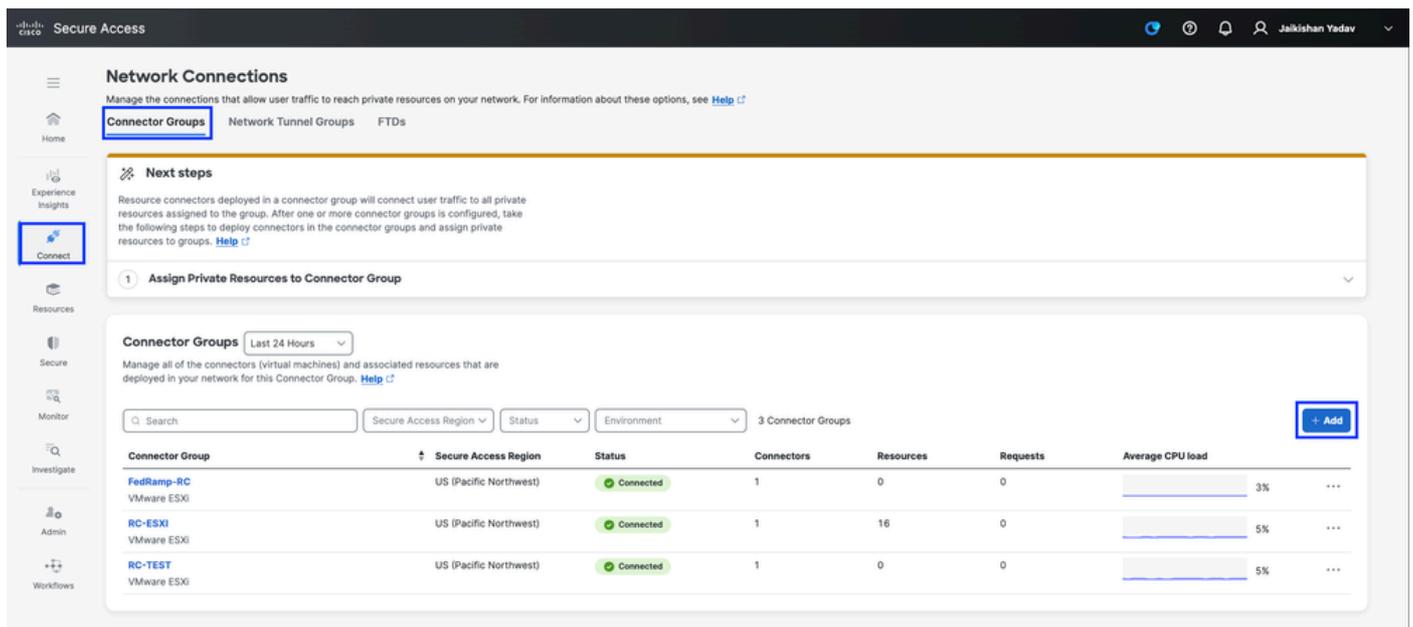
本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除（預設）的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

## 設定

### 安全訪問中的配置

登入到[Secure Access Dashboard](#)並導覽至 **Connect > Network Connections > Connector Groups**

- 按一下 `add`

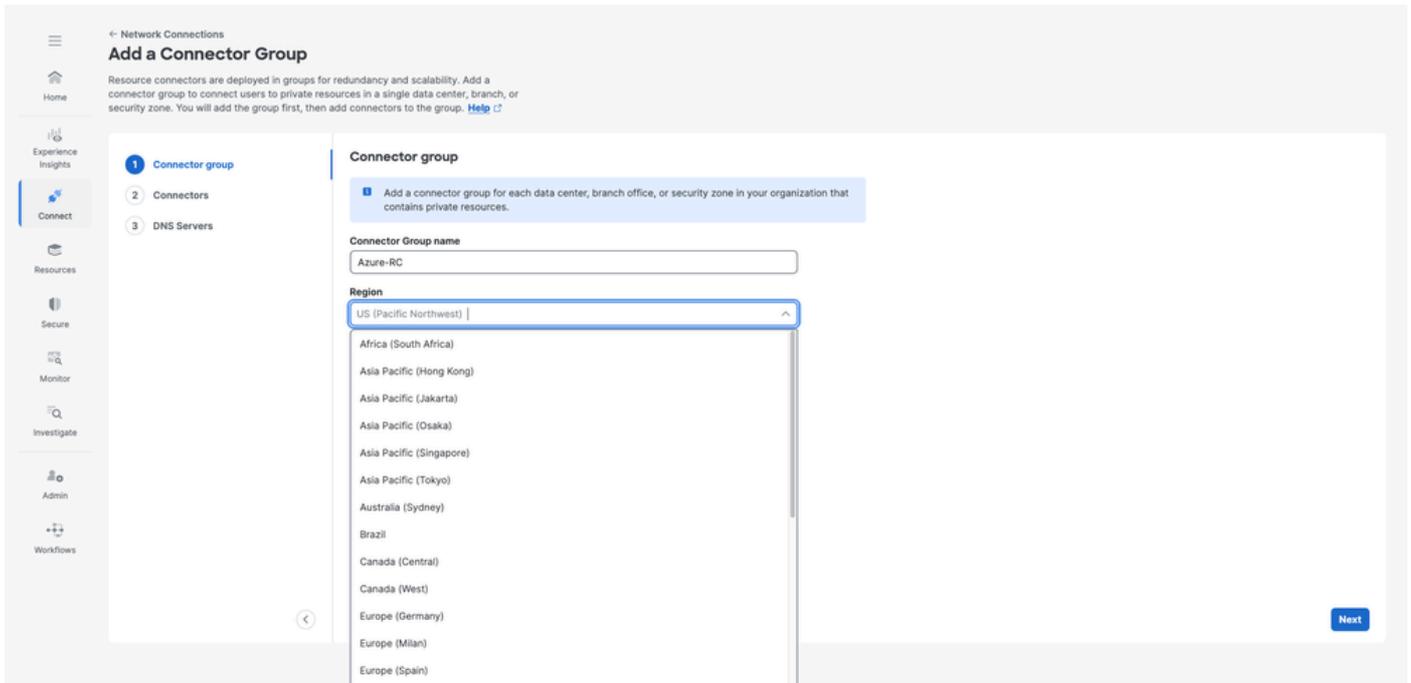


The screenshot shows the Cisco Secure Access dashboard. The main content area is titled "Network Connections" and "Connector Groups". A "Next steps" section provides instructions on assigning private resources to a connector group. Below this, there is a table of connector groups. The table has columns for Connector Group, Secure Access Region, Status, Connectors, Resources, Requests, and Average CPU load. Three connector groups are listed: FedRamp-RC, RC-ESXI, and RC-TEST, all with a "Connected" status. An "Add" button is visible in the top right corner of the table area.

Connector Group	Secure Access Region	Status	Connectors	Resources	Requests	Average CPU load
FedRamp-RC VMware ESXi	US (Pacific Northwest)	Connected	1	0	0	3%
RC-ESXI VMware ESXi	US (Pacific Northwest)	Connected	1	16	0	5%
RC-TEST VMware ESXi	US (Pacific Northwest)	Connected	1	0	0	5%

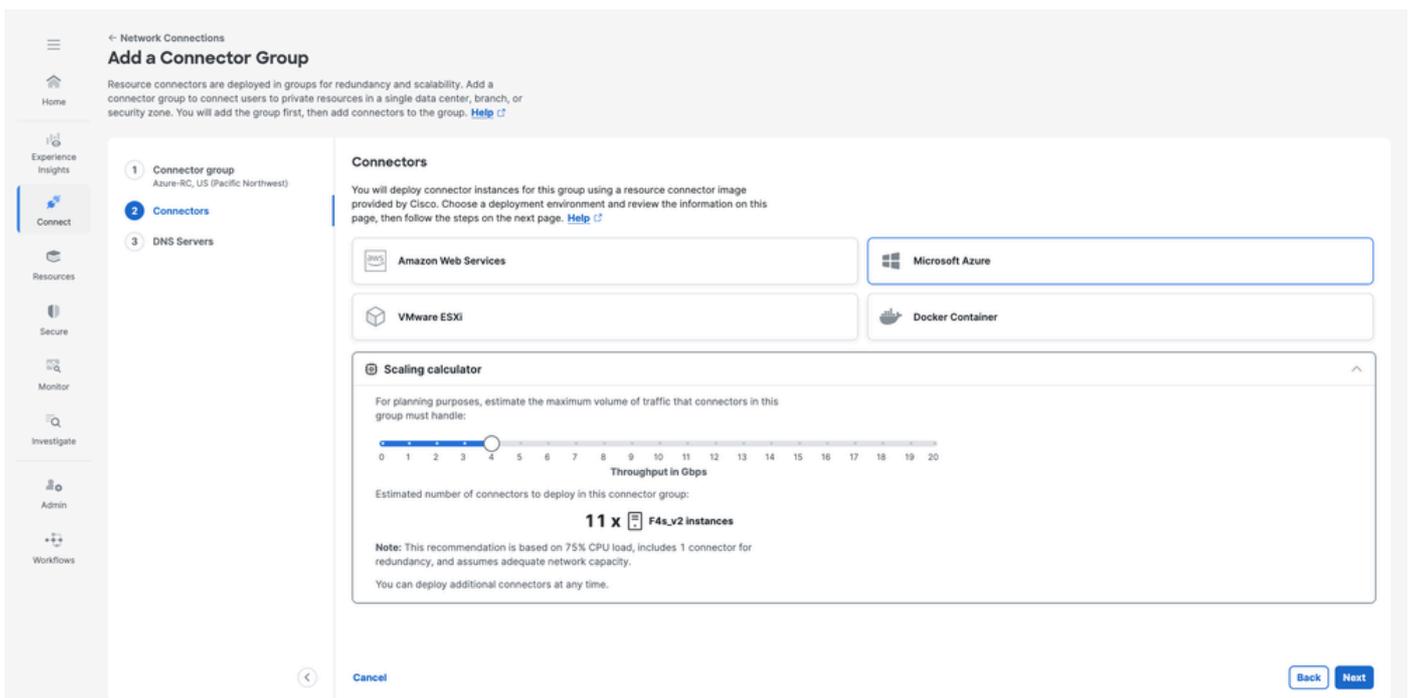
### 安全訪問 — 連結器組

- 指定 Connector Group Name 和 Region
- 按一下 `Next`



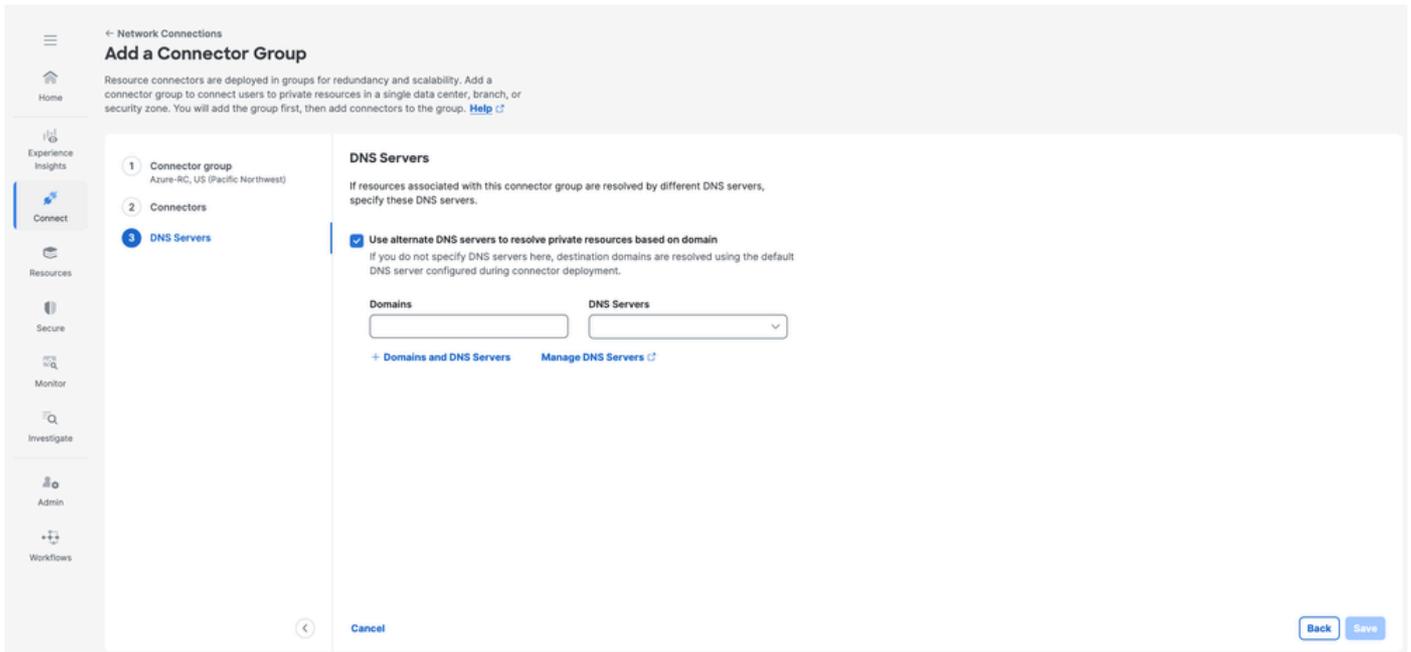
## 安全訪問 — 連結器組配置

- 選擇Microsoft Azure，然後使用Scaling Calculator，確定所需的資源



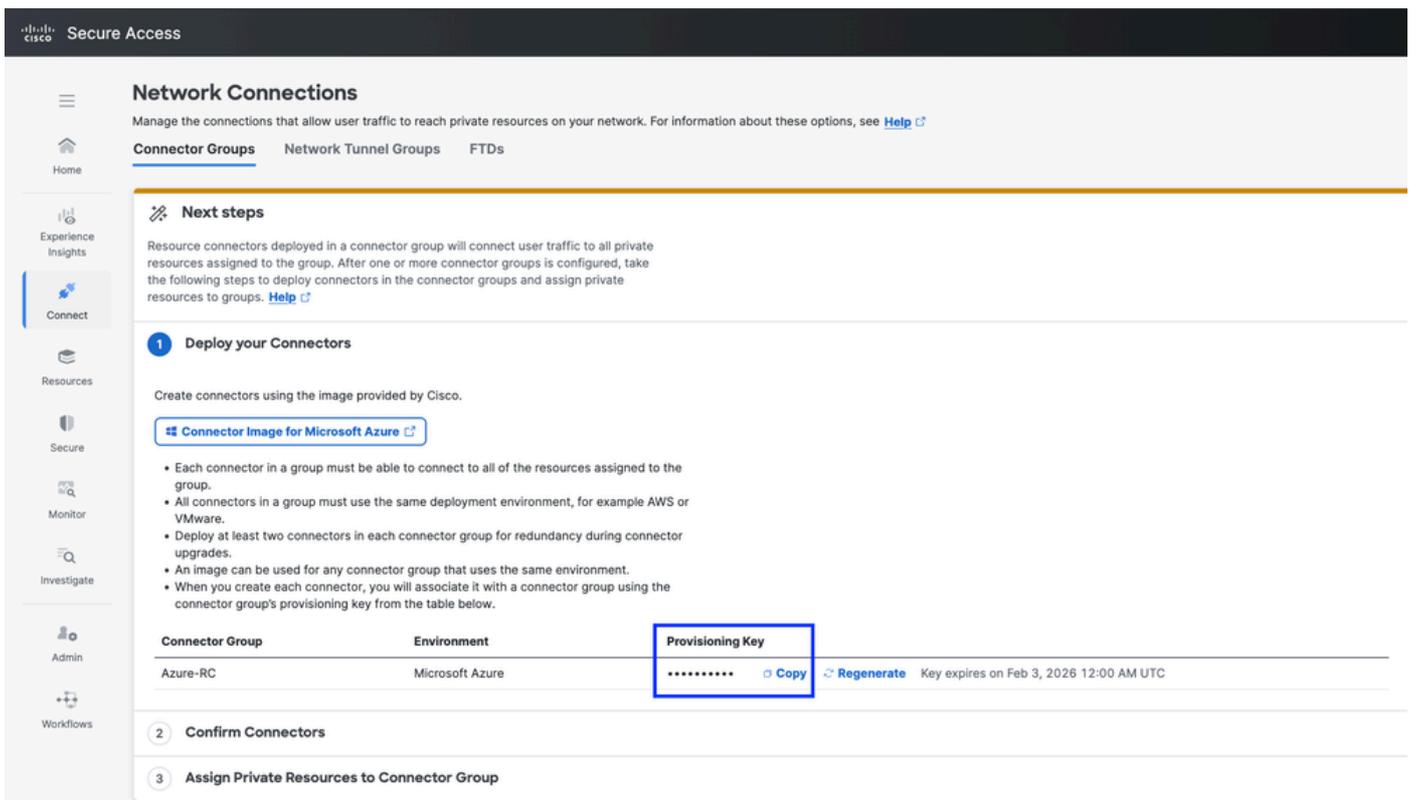
## 安全訪問 — 資源連結器配置檢查

- 利用此DNS Servers選項通過專用DNS伺服器解析特定域。對於具有多個內部域的組織，這被視為最佳實踐。
- 按一下 Save



## 安全訪問 — 資源連結器配置

- 在此階段，請確保複製 Provisioning Key。在資源連結器部署期間，你稍後需要在 Azure 中完成該設定，以便向你的安全訪問租戶進行註冊。



## 安全訪問 — 資源連結器配置

### Azure 中的配置

導航到 [Azure 門戶](#)，然後導航到 Microsoft Azure Marketplace 並搜尋 Cisco Secure Access Resource Connector 映像：

The screenshot shows the Microsoft Azure Marketplace interface. At the top, there's a search bar with 'Cisco Secure Access Resource Connector' entered. Below the search bar, there are filters for Publisher name, Product Type, Publisher Type, Operating System, and Pricing. A notification banner says 'New! Get AI-generated suggestions for 'cisco secure access resource connector'' with a 'View suggestions' button. The search results show one result for 'Cisco Secure Access Resource Connector' by Cisco Systems, Inc. The card includes the product name, publisher, a 'Virtual Machine' label, a description, and a 'Create' button. The page number is 1 of 1.

## 安全訪問 — Azure上的資源連結器建立

- 選擇適當的Subscription，然後Plan，點選 Create

The screenshot shows the product page for 'Cisco Secure Access Resource Connector' by Cisco Systems, Inc. The page includes the product name, a 'Virtual Machine' label, and a 'Create' button. Below the product name, there are sections for 'Overview', 'Plans + Pricing', 'Usage Information + Support', and 'Ratings + Reviews'. The 'Overview' section contains text about the product's purpose and provides links for more information and documentation.

## 安全訪問 — Azure上的資源連結器建立

- 檢視、和SSHDisks公Networking鑰的配置

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

Home > Marketplace > Cisco Secure Access Resource Connector >

## Create a virtual machine

Help me create a VM optimized for high availability | Help me choose the right VM size for my workload | Help me create a low cost VM

Basics | Disks | Networking | Management | Monitoring | Advanced | Tags | Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

### Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription \*

Resource group \*   
[Create new](#)

### Instance details

Virtual machine name \*

Region \*   
[Deploy to an Azure Extended Zone](#)

Availability options

Security type   
[Configure security features](#)

Image \*   
[See all images](#) | [Configure VM generation](#)

VM architecture  Arm64  x64  
**i** Arm64 is not supported with the selected image.

Run with Azure Spot discount

Size \*   
[See all sizes](#)

Enable Hibernation   
**i** Hibernation does not currently support Trusted launch and Confidential virtual machines. [Learn more](#)

< Previous | Next: Disks > | **Review + create**

## Create a virtual machine

Help me create a low cost VM Help me create a VM optimized for high availability Help me choose the right VM size for my workload

Run with Azure Spot discount

Size \*   
[See all sizes](#)

Enable Hibernation   
**i** Hibernate does not currently support Trusted launch and Confidential virtual machines for Linux images. [Learn more](#)

**Administrator account**

Authentication type  SSH public key  Password  
**i** Azure now automatically generates an SSH key pair for you and allows you to store it for future use. It is a fast, simple, and secure way to connect to your virtual machine.

Username \*

SSH public key source

SSH Key Type  RSA SSH Format  Ed25519 SSH Format  
**i** Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.

Key pair name \*

**Inbound port rules**  
Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports \*  None  Allow selected ports

Select inbound ports   
**i** All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

< Previous Next : Disks > Review + create



注意：請勿丟失私有SSH金鑰；否則，您將無法訪問RC CLI，必須重新部署它進行故障排除。

# Create a virtual machine

- Help me choose the right VM size for my workload
- Help me create a VM optimized for high availability
- Help me create a low cost VM

- Basics
- Disks**
- Networking
- Management
- Monitoring
- Advanced
- Tags
- Review + create

Azure VMs have one operating system disk and a temporary disk for short-term storage. You can attach additional data disks. The size of the VM determines the type of storage you can use and the number of data disks allowed. [Learn more](#)

There is a charge for the underlying storage resources consumed by your virtual machine. [Learn more](#)

### VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host

Encryption at host is not registered for the selected subscription. [Learn more](#)

### OS disk

OS disk size

OS disk type

Delete with VM

Key management

Enable Ultra Disk compatibility

### Data disks for Azure-RC

You can add and configure additional data disks for your virtual machine or attach existing disks. This VM also comes with a temporary disk.

LUN	Name	Size (GiB)	Disk type	Host caching	Delete with VM
-----	------	------------	-----------	--------------	----------------

- [Create and attach a new disk](#)
- [Attach an existing disk](#)

Advanced

## Create a virtual machine

Help me choose the right VM size for my workload Help me create a VM optimized for high availability Help me create a low cost VM

Basics Disks **Networking** Management Monitoring Advanced Tags Review + create

Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more](#)

### Network interface

When creating a virtual machine, a network interface will be created for you.

Virtual network  [Edit virtual network](#)

Subnet \*  [Edit subnet](#) 172.28.0.0 - 172.28.0.255 (256 addresses)

Public IP  [Create new](#)  
**i** Public IP addresses have a nominal charge. [Estimate price](#)

NIC network security group  None  Basic  Advanced

Public inbound ports \*  None  Allow selected ports

Select inbound ports   
**i** All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Delete public IP and NIC when VM is deleted

Enable accelerated networking  The selected image does not support accelerated networking.

### Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#)

Load balancing options  None

< Previous | Next : Management > | **Review + create**

## 安全訪問 — Azure上的資源連結器建立

- 將複製自Provisioning KeyCisco Secure Access的資訊貼上到字User data段

KEY=XXXXXXXXXXXXXXXXXXXXXX

## Create a virtual machine

Help me choose the right VM size for my workload Help me create a VM optimized for high availability Help me create a low cost VM

your VM after creation. Learn more >

Select a VM application to install

### Custom data

Pass a script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMs](#)

Custom data

**i** Your image must have a code to support consumption of custom data. If your image supports cloud-init, custom-data will be processed by cloud-init. [Learn more about custom data for VMs](#)

### User data

Pass a script, configuration file, or other data that will be accessible to your applications throughout the lifetime of the virtual machine. Don't use user data for storing your secrets or passwords. [Learn more about user data for VMs](#)

Enable user data

User data \*

KEY="xxxxxxxxxxxxxxxxxxxxxxxxxxxx"

### Performance (NVMe)

Enable capabilities to enhance the performance of your resources.

Higher remote disk storage performance with NVMe

**i** The selected image and size are not supported for NVMe. [See supported VM images and sizes](#)

### Host

Azure Dedicated Hosts allow you to provision and manage a physical server within our data centers that are dedicated to your Azure subscription. A dedicated host gives you assurance that only VMs from your subscription are on the host, flexibility to

< Previous Next : Tags > Review + create

## 安全訪問 — Azure上的資源連結器建立

- 檢視並單Create擊，以便繼續建立 Resource Connector

## Create a virtual machine

Help me create a VM optimized for high availability Help me choose the right VM size for my workload Help me create a low cost VM

Validation passed

Subscription	cx-iac-sspt-zu-azure (cxsecurity)
Resource group	(new) Jai-Azure-RG
Virtual machine name	Azure-RC
Region	West US
Availability options	No infrastructure redundancy required
Zone options	Self-selected zone
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Cisco Secure Access Resource Connector - Gen2
VM architecture	x64
Size	Standard F4s v2 (4 vcpus, 8 GiB memory)
Enable Hibernation	No
Authentication type	SSH public key
Username	azureuser
SSH Key format	Ed25519
Key pair name	Azure-RC_key
Public inbound ports	None
Azure Spot	No

### Disks

OS disk size	Image default
OS disk type	Premium SSD LRS
Use managed disks	Yes
Delete OS disk with VM	Enabled
Ephemeral OS disk	No

### Networking

Virtual network	vnet-westus
Subnet	snet-westus-1
Public IP	(new) Azure-RC-ip
Accelerated networking	Off

< Previous Next > Create

## 安全訪問 — Azure上的資源連結器建立

- 按一下Create後，系統會顯示一個下載私鑰的選項。按一下 Download private key and create resource

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > Marketplace > Cisco Secure Access Resource Connector >

## Create a virtual machine

Help me create a VM optimized for high availability | Help me choose the right VM size for my workload | Help me create a low cost VM

Validation passed

Subscription: cx-tac-sspt-zu-azure (cxsecurity)  
 Resource group: (new) Jai-Azure-RG  
 Virtual machine name: Azure-RC  
 Region: West US  
 Availability options: No infrastructure redundancy required  
 Zone options: Self-selected zone  
 Security type: Trusted launch virtual machines  
 Enable secure boot: Yes  
 Enable vTPM: Yes  
 Integrity monitoring: No  
 Image: Cisco Secure Access Resource Connector - Gen2  
 VM architecture: x64  
 Size: Standard F4s v2 (4 vcpus, 8 GiB memory)  
 Enable Hibernation: No  
 Authentication type: SSH public key  
 Username: azureuser  
 SSH Key format: Ed25519  
 Key pair name: Azure-RC\_key  
 Public inbound ports: None  
 Azure Spot: No

**Disks**

OS disk size: Image default  
 OS disk type: Premium SSD LRS  
 Use managed disks: Yes  
 Delete OS disk with VM: Enabled  
 Ephemeral OS disk: No

**Networking**

Virtual network: vnet-westus  
 Subnet: snet-westus-1  
 Public IP: (new) Azure-RC-ip

< Previous | Next > | **Create**

### Generate new key pair

**i** An SSH key pair contains both a public key and a private key. **Azure doesn't store the private key.** After the SSH key resource is created, you won't be able to download the private key again. [Learn more](#)

**Download private key and create resource**

Return to create a virtual machine

## 安全訪問 — Azure上的資源連結器建立



注意：請勿丟失私有SSH金鑰；否則，您將無法訪問RC CLI，必須重新部署它進行故障排除。

- 之後，您可以看到您的Resource Connector

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home >

### CreateVm-cisco.cisco-resource-connector-cisco-sec-20260119144612 | Overview

Deployment

Search | Delete | Cancel | Redeploy | Download | Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: CreateVm-cisco.cisco-resource-connector-cisco... Start time: 1/19/2026, 3:08:05 PM  
 Subscription: cx-tac-sspt-zu-azure (cxsecurity) Correlation ID: d6369344-515a-4f8b-ad8e-6f8dccc87418  
 Resource group: Jai-Azure-RG

Deployment details

Resource	Type	Status	Operation details
Azure-RC	Microsoft.Compute/virtualMachines	Created	<a href="#">Operation details</a>
azure-rc708	Microsoft.Network/networkInterfaces	OK	<a href="#">Operation details</a>
network-interface-associated-virtual-network-2026011915	Microsoft.Resources/deployments	OK	<a href="#">Operation details</a>
Azure-RC-ip	Microsoft.Network/publicIPAddresses	OK	<a href="#">Operation details</a>
Azure-RC-nsg	Microsoft.Network/networkSecurityGroups	OK	<a href="#">Operation details</a>

## 安全訪問 — Azure上的資源連結器部署

- 然後導航到 [Secure Access Dashboard](#)，以確認連線並在 Resource Connector Secure Access 租戶中成功部署
- 按一下 **Connect > Network Connections > Connector Groups**
- 在選項2「Confirm Connectors ( 確認連結器 )」下，Confirm Connectors 按一下以結束部署

**Next steps**

Resource connectors deployed in a connector group will connect user traffic to all private resources assigned to the group. After one or more connector groups is configured, take the following steps to deploy connectors in the connector groups and assign private resources to groups. [Help](#)

**1 Deploy your Connectors**

Create connectors using the image provided by Cisco.

[Connector Image for Microsoft Azure](#)

- Each connector in a group must be able to connect to all of the resources assigned to the group.
- All connectors in a group must use the same deployment environment, for example AWS or VMware.
- Deploy at least two connectors in each connector group for redundancy during connector upgrades.
- An image can be used for any connector group that uses the same environment.
- When you create each connector, you will associate it with a connector group using the connector group's provisioning key from the table below.

Connector Group	Environment	Provisioning Key
Azure-RC	Microsoft Azure	***** <a href="#">Copy</a> <a href="#">Regenerate</a> Key expires on Feb 3, 2026 12:00 AM UTC

**2 Confirm Connectors**

Deployed connectors will appear in this list when they contact Secure Access. You must confirm that each connector is expected before it can transmit traffic.

**Connectors to confirm**

#	Connector ID	Connector Group	Secure Access Region	Origin IP Address	Announced time	Enable	Revoke
1	*****	Azure-RC	US (Pacific Northwest)	*****	Jan 19, 2026 8:10 PM UTC	<input checked="" type="checkbox"/>	<a href="#">X Revoke</a>

[Confirm connectors](#)

## 安全訪問 — 資源連結器確認

現在，您可以看到您的新Resource Connector已部署並連線到您的Secure Access租戶：

**Next steps**

Resource connectors deployed in a connector group will connect user traffic to all private resources assigned to the group. After one or more connector groups is configured, take the following steps to deploy connectors in the connector groups and assign private resources to groups. [Help](#)

**1 Assign Private Resources to Connector Group**

**Connector Groups** Last 24 Hours

Manage all of the connectors (virtual machines) and associated resources that are deployed in your network for this Connector Group. [Help](#)

Search:  Secure Access Region:  Status:  Environment:  4 Connector Groups [+ Add](#)

Connector Group	Secure Access Region	Status	Connectors	Resources	Requests	Average CPU load
Azure-RC Microsoft Azure	US (Pacific Northwest)	Connected	1	0	0	0%
FedRamp-RC VMware ESXi	US (Pacific Northwest)	Connected	1	0	0	3%
RC-ESXI VMware ESXi	US (Pacific Northwest)	Connected	1	16	0	5%
RC-TEST VMware ESXi	US (Pacific Northwest)	Connected	1	0	0	5%

## 安全存取 — 資源連結器

# 驗證

## 從inbuild Bastion CLI訪問

在Azure中，訪問你的資源連結器，然後按一下Bastion:

- Authentication Type:選擇 SSH Private key from Local File
- Username:必須使用 acadmin
- Local File:選擇之前下載的private key

The screenshot displays the Azure portal interface for configuring Bastion access to a virtual machine. The breadcrumb path is: Home > CreateVm-cisco.cisco-resource-connector-cisco-sec-20260122113614 | Overview > Azure-RC. The page title is 'Azure-RC | Bastion' with a star icon and a menu icon. Below the title, it says 'Virtual machine'. A search bar is present. On the left, a navigation pane lists various options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Bastion (highlighted), Networking (Network settings, Load balancing, Application security groups, Network manager), Settings (Disks). The main content area shows: 'Azure Bastion protects your virtual machines by secure and seamless RDP & SSH connectivity without the need to expose them through public IP addresses. Deploying will automatically create a Bastion host on a subnet in your virtual network. [Learn more](#)'. It indicates 'Using Bastion: vnet-westus-bastion' and 'Provisioning State: Succeeded'. A message says 'Please enter username and password to your virtual machine to connect using Bastion.' The configuration fields are: 'Authentication Type' set to 'SSH Private Key from Local File', 'Username' set to 'acadmin', and 'Local File' set to 'Azure-RC\_key.pem'. There is an 'Advanced' section with a checked option 'Open in new browser tab'. A blue 'Connect' button is at the bottom.

```
cdn.bastionglobal.azure.com/2020-07-15/index.react.html?datapath=ee6d...
You have entered the Console Mode on this Resource Connector.
Type 'help' to get a list of supported commands.

Following is the list of commands available:
=====
Resource Connector Specific
=====
Command      || Description
-----
diagnostic   || Run a series of connectivity tests
help         || Provides the list of commands available
routeadd     || Allows (non-persistent) routes to be added with network and gateway
routedel     || Allows (non-persistent) added routes to be deleted with network
              and gateway. This will not permit deletion of system created routes
routeshow    || Shows all the routes in the system
sshkey       || Manages SSH public keys for acadmin user (add, list, delete, clean)
stats        || Displays a series of statistics
tcpdump      || Provides packet capture information on VM interface IP
techsupport  || Provides software version, VPN tunnel state, system monitoring
              metrics, snapshot info and software logs
version      || Shows the software version running in the VM
=====
Linux Native
=====
Command      || Description
-----
clear        || Clears screen
date         || Provides system time
df           || Provides disk and partition usage
free         || Shows memory that is free and used
history      || Provides the list of commands previously executed
iostat       || Shows cpu and disk utilization
mpstat       || Shows detailed CPU utilization
netstat      || Shows all open network connections
nslookup     || Finds all DNS records for website
ping         || Confirms network connectivity
reboot       || Reboots the VM
tcptracroute || Traceroutes pathway using TCP
traceroute   || Traceroutes pathway using ICMP packets
uptime       || Shows current time and how long the system has been up and running
vmstat       || Shows VM memory statistics
7:00 PM 07/15/2020 ~ $
```

## 安全訪問 — 訪問資源連結器命令列

### 從MAC-OS終端訪問RC

開啟終端機並使用ssh -i <private-key-file-path> [acadmin@x.x.x.x](#)連線到資源連結器。

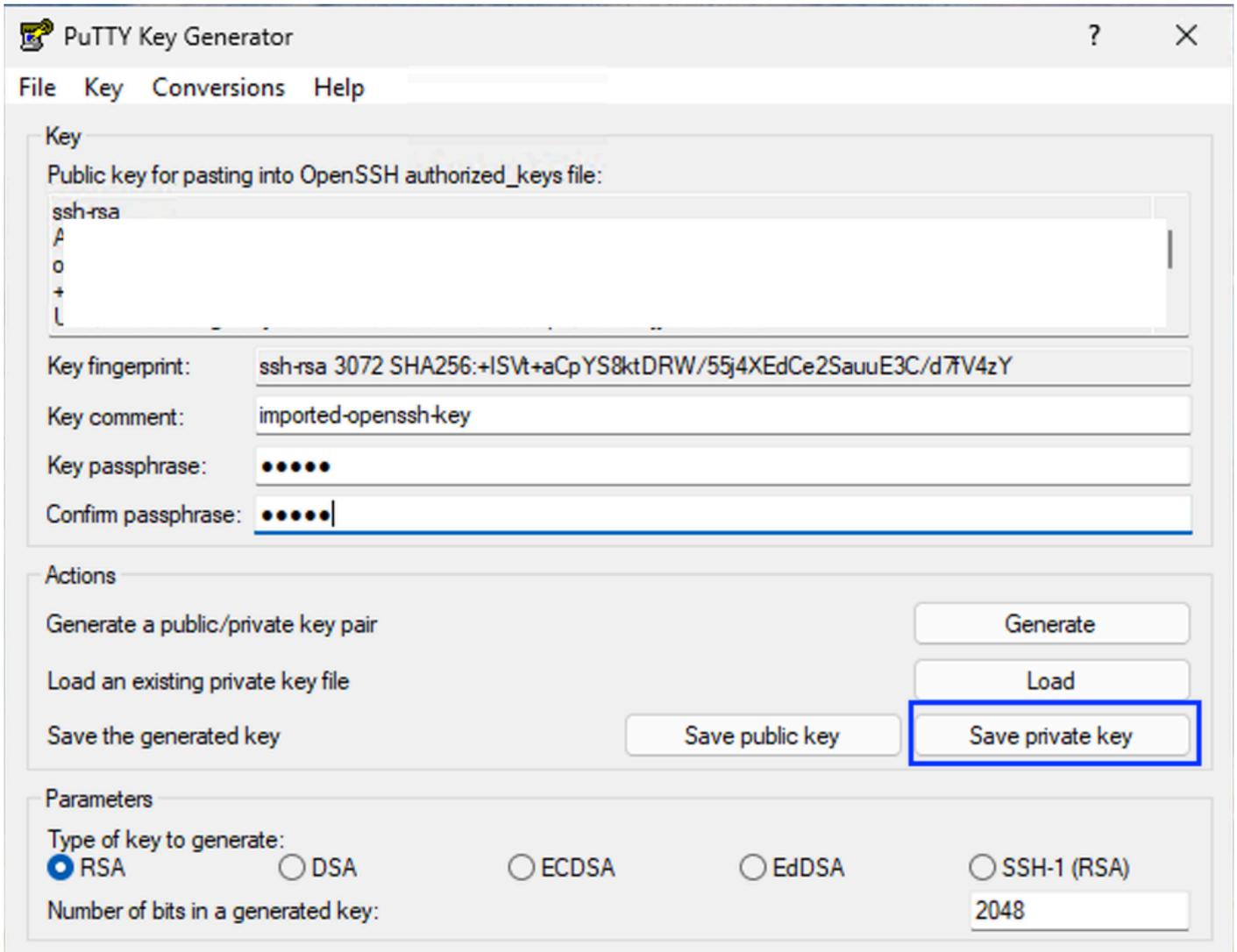
```
Downloads — ssh -i ~/Downloads/Azure-RC_key.pem acadmin@i-... 243x59
You have entered the Console Mode on this Resource Connector.
Type 'help' to get a list of supported commands.

Following is the list of commands available:
=====
Resource Connector Specific
=====
Command    || Description
-----
diagnostic || Run a series of connectivity tests
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           || and gateway. This will not permit deletion of system created routes
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Linux Native
=====
Command    || Description
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traceroute || Traceroutes pathway using ICMP packets
uptime     || Shows current time and how long the system has been up and running
vmstat     || Shows VM memory statistics
$
```

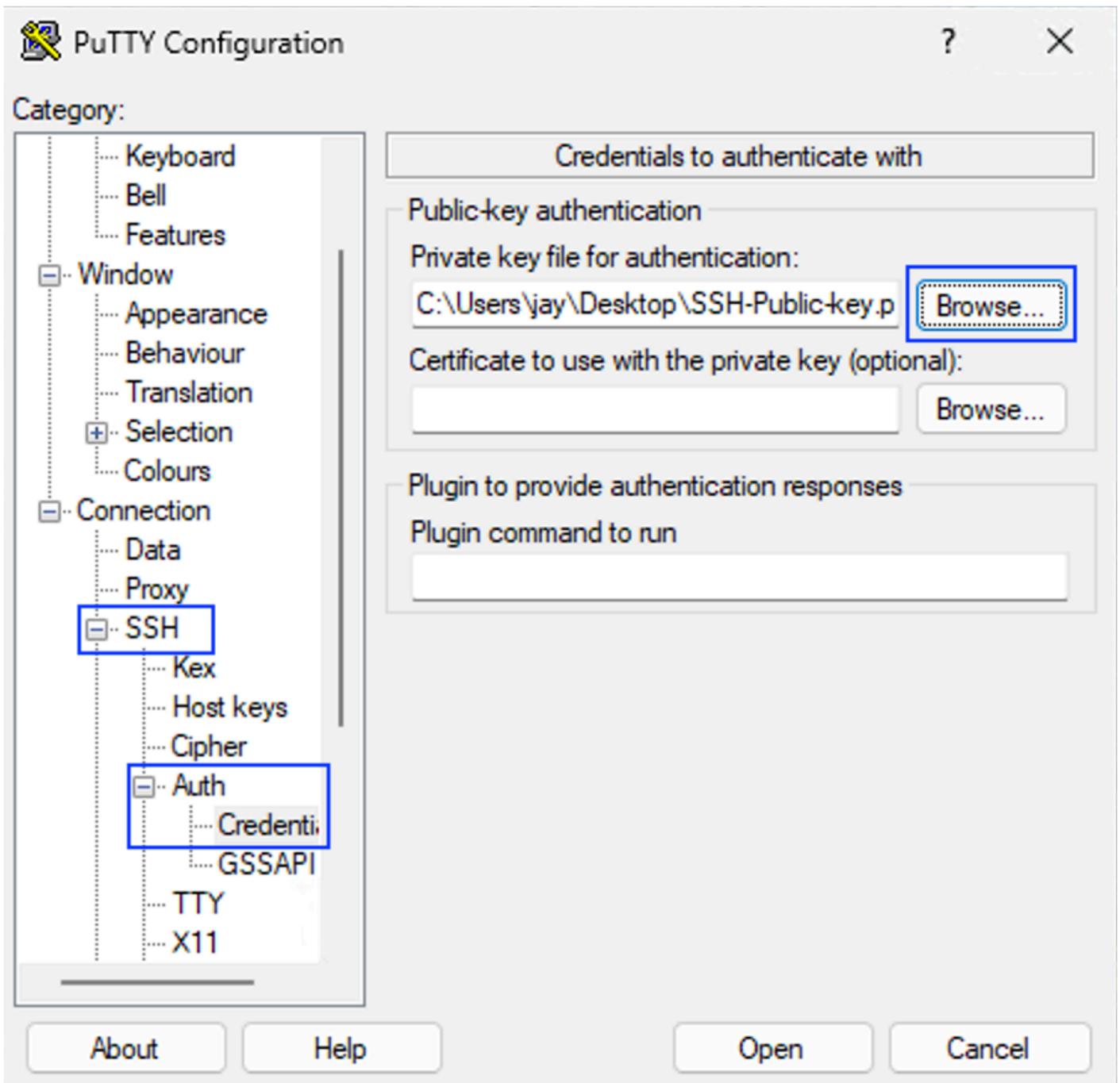
## 安全訪問 — 訪問資源連結器命令列

### 從Windows訪問 — Putty

若要使用私鑰，必須使用以下命令將SSH private key從.pem轉換為.ppk formatPuttygen:



- 以.ppk格式儲存私鑰
- 啟動putty應用程式，導航到SSH > Auth > Credentials，並在中瀏覽SSH private key。ppkformat



- 導航到Session並放置資源連結器的IP地址，然後按一下 Open



提示：使用者名稱:acadmin密碼短語：將私鑰從.pem轉換為.ppk格式時配置的密碼

```

routeadd    || Allows (non-persistent) routes to be added with network and gate
way
routedel    || Allows (non-persistent) added routes to be deleted with network
            and gateway. This will not permit deletion of system created rou
tes
routeshow   || Shows all the routes in the system
sshkey      || Manages SSH public keys for acadmin user (add, list, delete, cle
an)
stats       || Displays a series of statistics
tcpdump     || Provides packet capture information on VM interface IP
techsupport || Provides software version, VPN tunnel state, system monitoring
            metrics, snapshot info and software logs
version     || Shows the software version running in the VM
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Linux Native
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Command     || Description

clear       || Clears screen
date        || Provides system time
df          || Provides disk and partition usage
free        || Shows memory that is free and used
history     || Provides the list of commands previously executed
iostat     || Shows cpu and disk utilization
mpstat     || Shows detailed CPU utilization
netstat    || Shows all open network connections
nslookup   || Finds all DNS records for website
ping       || Confirms network connectivity
reboot     || Reboots the VM
tcptracroute || Traceroutes pathway using TCP
traceroute || Traceroutes pathway using ICMP packets
uptime     || Shows current time and how long the system has been up and runni
ng
vmstat     || Shows VM memorv statistics

```

## 疑難排解

要訪問故障排除命令，請訪問。



注意：請勿丟失私有SSH金鑰；否則，您將無法訪問RC CLI，必須重新部署它進行故障排除。

## 相關資訊

- [思科技術支援與下載](#)
- [其他安全存取檔案](#)

## 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）。