

# Distribuisci il connettore di risorse di accesso sicuro in Azure

## Sommario

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## Introduzione

In questo documento viene descritto come distribuire un connettore di risorse passo per passo in Azure.

## Prerequisiti

Raccogliere le informazioni necessarie e comprendere

- Ottenere l'immagine del connettore.
  - È possibile scaricare l'immagine una sola volta e utilizzarla per un numero qualsiasi di connettori in qualsiasi gruppo di connettori.
  - Se si utilizza un'immagine scaricata in precedenza, verificare che la versione dell'immagine sia la più recente.
  - Per ulteriori informazioni, vedere [Ottenere l'immagine del connettore](#).
- Copiare la chiave di provisioning per il gruppo di connettori specifico per cui si distribuiscono i connettori.

Fare riferimento alla sezione [Provisioning delle chiavi per i connettori di risorsa](#).

## Requisiti

Cisco raccomanda la conoscenza dei seguenti argomenti:

- Accesso amministratore dashboard Cisco Secure Access
- Accesso al portale di Azure
- Cisco Secure Client
- Computer Windows con ZTA registrato

## Componenti usati

Le informazioni di questo documento si basano sul test eseguito in un ambiente lab utilizzando i componenti successivi:

- Client ZTNA
- Accesso sicuro
- Azzurro
- Risorsa privata

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

## Configurazione

### Configurazioni in Accesso sicuro

Accedere al [Dashboard di accesso protetto](#) e passare a **Connect > Network Connections > Connector Groups**

- Fare clic su add

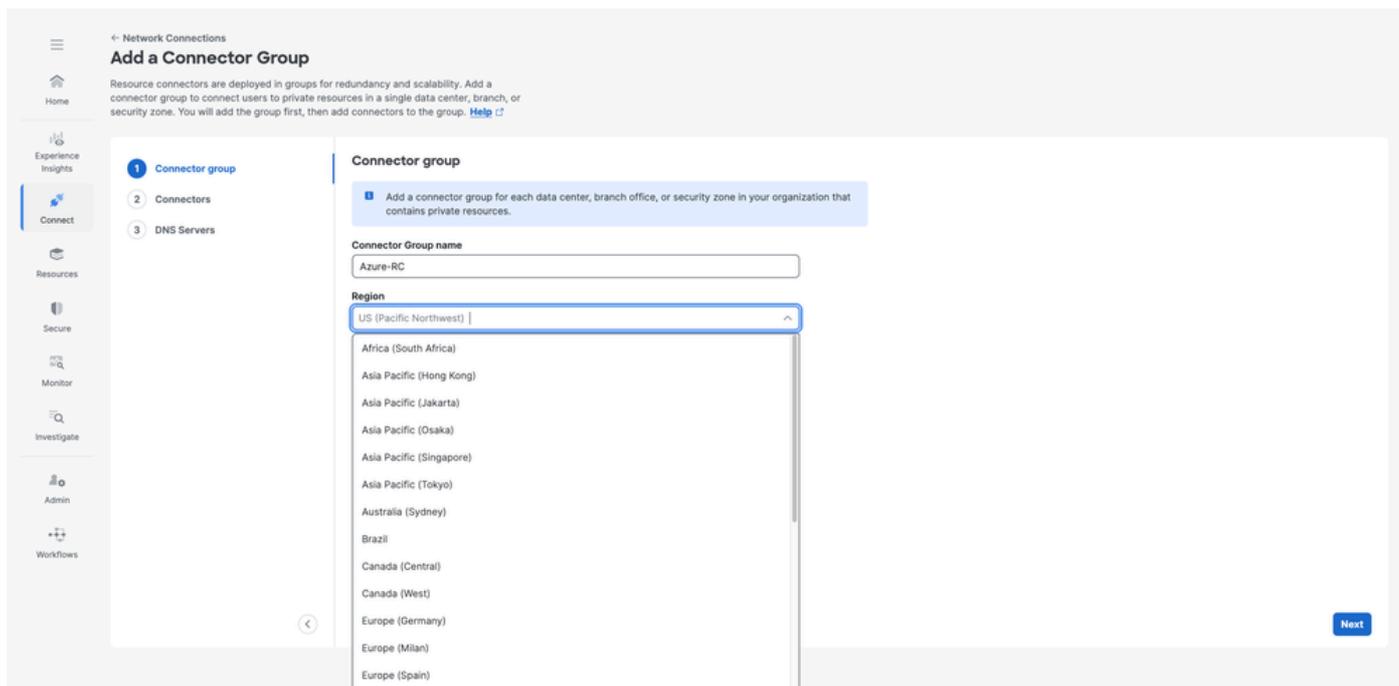
The screenshot shows the Cisco Secure Access dashboard. The main content area is titled 'Network Connections' and 'Connector Groups'. A 'Next steps' section provides instructions on assigning private resources to connector groups. Below this is a table of connector groups with the following data:

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%

### Accesso sicuro - Gruppi di connettori

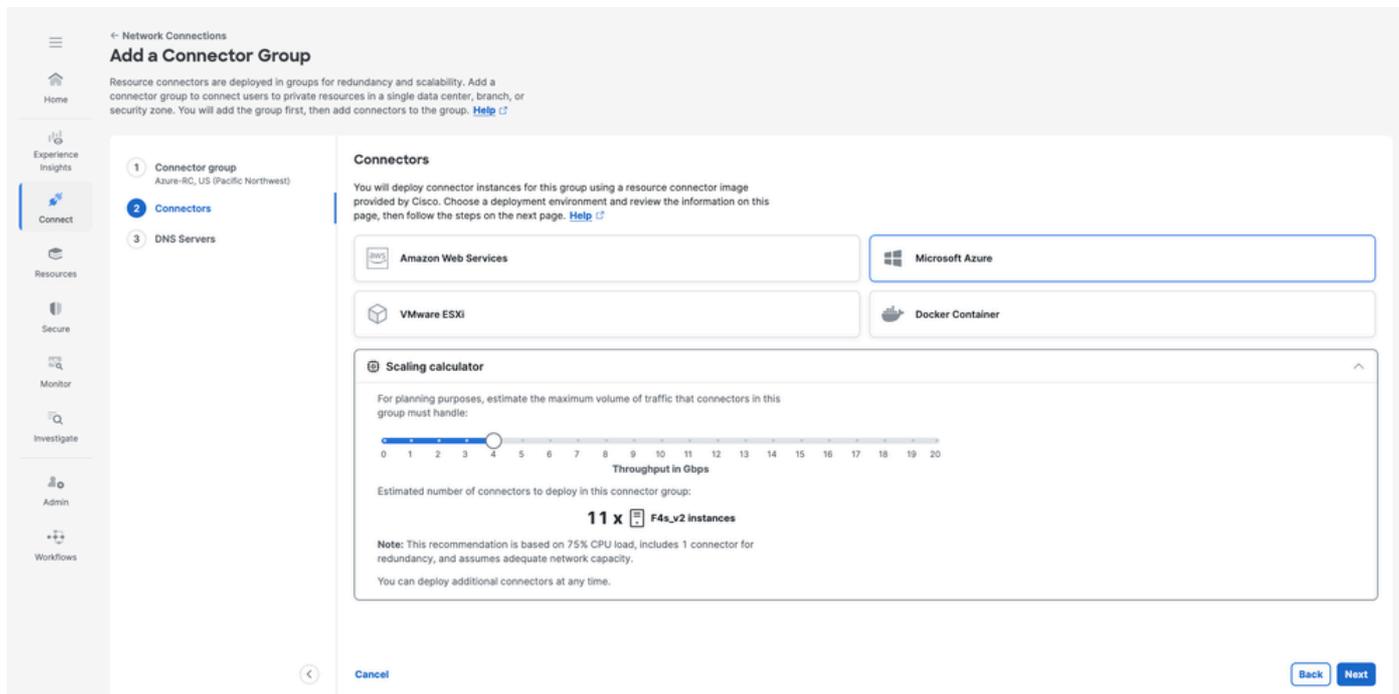
- Specificare la Connector Group Name e la Region

- Fare clic su **Next**



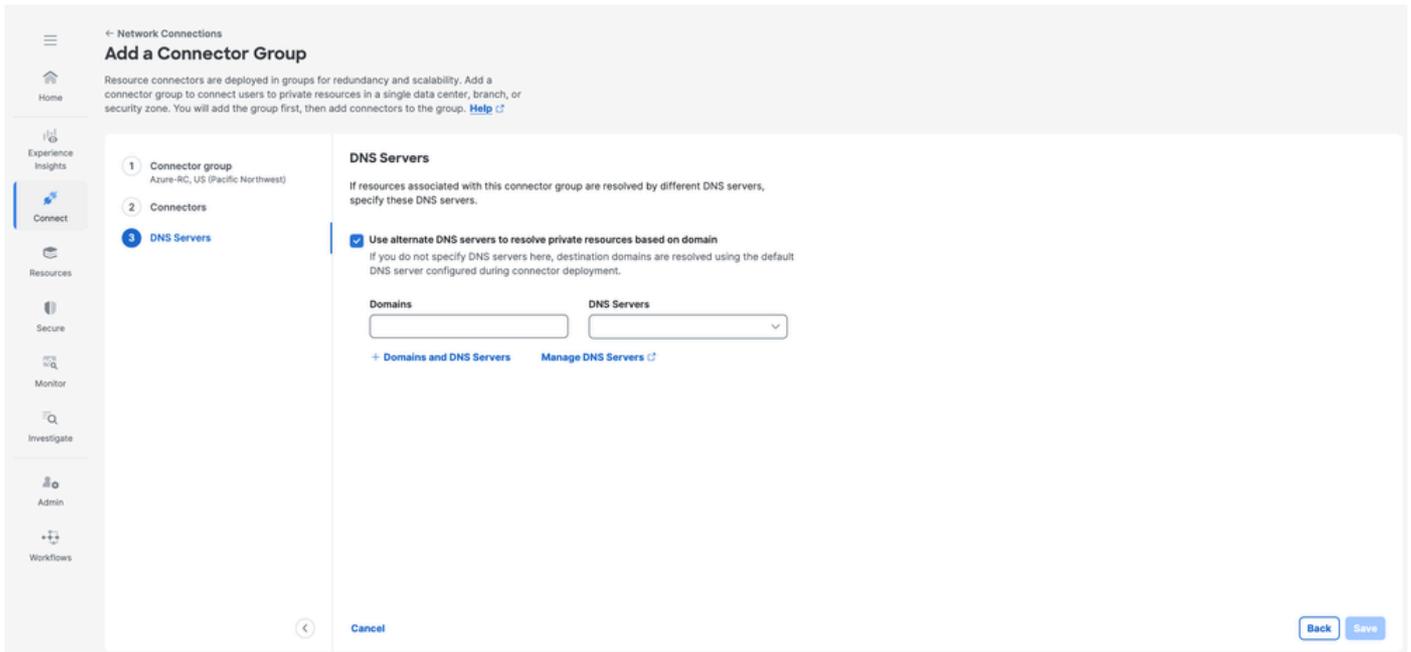
## Accesso sicuro - Configurazione gruppi di connettori

- Scegliere Microsoft Azure e utilizzare per Scaling Calculator determinare le risorse necessarie



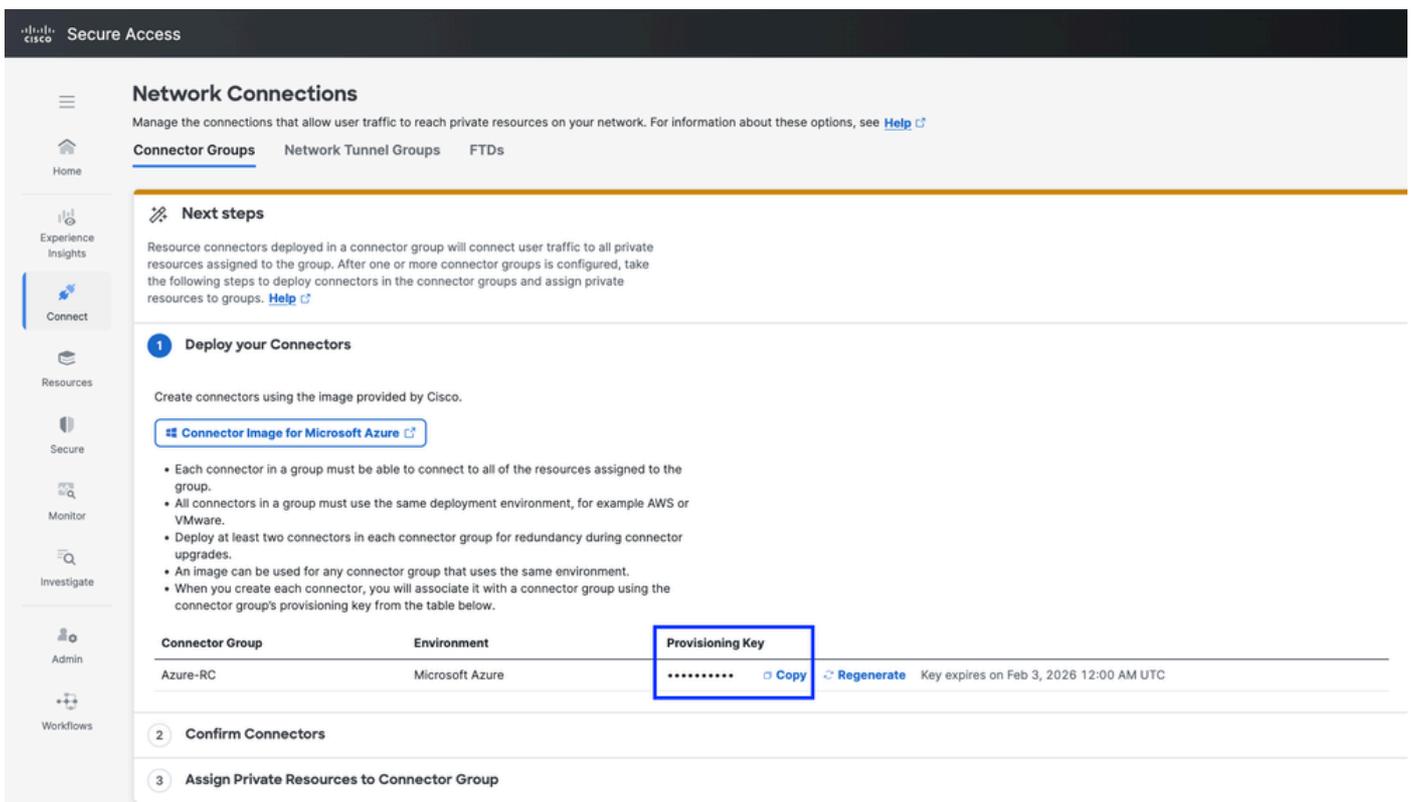
## Accesso sicuro - Revisione della configurazione del connettore di risorse

- Sfruttare l'opzione per **DNS Servers** risolvere domini specifici tramite server DNS dedicati. Questa è una procedura ottimale per le organizzazioni con più domini interni.
- Fare clic su **Save**



## Accesso sicuro - Configurazione connettore risorse

- A questo punto, assicurarsi di copiare il Provisioning Key. Sarà necessario in seguito in Azure durante la distribuzione di Connettore risorse per abilitare la registrazione con il tenant di accesso sicuro.



## Accesso sicuro - Configurazione connettore risorse

### Configurazioni in Azure

Passare al [portale di Azure](#), quindi passare a Microsoft Azure Marketplace e cercare l'immagine

# Cisco Secure Access Resource Connector:

The screenshot shows the Microsoft Azure Marketplace search results for 'Cisco Secure Access Resource Connector'. The search bar contains the text 'Cisco Secure Access Resource Connector'. The results show a single item: 'Cisco Secure Access Resource Connector' by Cisco Systems, Inc. The item is a Virtual Machine. The description states: 'Cisco Secure Access resource connectors securely forward authorized remote user traffic to resources on your network using Software plan starts at less than \$0.001/3 years'. There is a 'Create' button and a heart icon for favorites. The page shows 'Showing 1 to 1 of 1 results for 'Cisco Secure Access Resource Connector''. There are filters for Publisher name, Product Type, Publisher Type, Operating System, and Pricing, all set to 'All'. There is also a 'New!' notification banner about AI-generated suggestions.

## Accesso sicuro - Creazione connettore risorse in Azure

- Selezionare la scheda appropriata Subscription e Plan fare clic su Create

The screenshot shows the product page for 'Cisco Secure Access Resource Connector' by Cisco Systems, Inc. The page includes a 'Create' button and a 'Start with a pre-set configuration' button. The 'Subscription' and 'Plan' dropdowns are visible. The 'Plan' dropdown is set to 'Cisco Secure Access Resource Conne...'. Below the buttons, there is a link 'Want to deploy programmatically? Get started'. The page has tabs for 'Overview', 'Plans + Pricing', 'Usage Information + Support', and 'Ratings + Reviews'. The 'Overview' tab is selected. The main content area contains the following text:

Cisco Secure Access protects your internal/private resources, user devices, and corporate reputation from malicious and unwelcome activity, safeguarding both inbound and internet-bound traffic using a suite of access and security controls.

Zero Trust Network Access to private/internal resources

To protect your private internal resources, Secure Access offers secure, granular Zero Trust Network Access to those resources.

**Resource Connectors forward traffic securely to private internal resources**

Resource connectors are virtual machines deployed in your Azure environment that forward remote user traffic to your applications without requiring open inbound ports in your firewall. Resource connectors simplify setting up Zero Trust Access without any need for complex network configurations.

**More information**

For more information about Cisco Secure Access, see <https://www.cisco.com/site/us/en/products/security/secure-access/index.html>.

For more information about Secure Access options for connecting user traffic to private resources, see <https://cisco.com/go/secure-access-network-connection-methods-documentation>.

To deploy this resource connector image, see <https://www.cisco.com/go/secure-access-resource-connectors-azure-documentation>.

More products from Cisco Systems, Inc. [See All](#)

- Esaminare la configurazione di Disks, Networking e della chiave pubblica SSH

The screenshot shows the 'Create a virtual machine' page in the Microsoft Azure portal. The breadcrumb navigation is 'Home > Marketplace > Cisco Secure Access Resource Connector'. The page title is 'Create a virtual machine' with three AI-assisted prompts: 'Help me create a VM optimized for high availability', 'Help me choose the right VM size for my workload', and 'Help me create a low cost VM'. The 'Basics' tab is selected, with other tabs including Disks, Networking, Management, Monitoring, Advanced, Tags, and Review + create. A brief introduction explains that users should select an image from the Azure marketplace or use a custom image, and complete the Basics tab then Review + create to provision a VM with default parameters or review each tab for full customization. The 'Project details' section asks for a subscription and resource group. The 'Instance details' section includes fields for virtual machine name, region, availability options, security type, image, VM architecture, and size. At the bottom, there are navigation buttons: '< Previous', 'Next : Disks >', and 'Review + create'.

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** Hibernate does not currently support Trusted launch and Confidential virtual machines for this image. [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** Hibernation 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



Attenzione: Non perdere la chiave SSH privata; in caso contrario, non è possibile accedere alla CLI di RC e deve essere ridistribuita per la risoluzione dei problemi.

# 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](#)

**i** 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



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

### OS disk

OS disk size

Image default (52 GiB)

OS disk type \*

Premium SSD (locally-redundant storage)

Delete with VM



Key management

Platform-managed key

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](#)  
 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   
 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

## Accesso sicuro - Creazione connettore risorse in Azure

- Incolla nel Provisioning Key User data campo il testo copiato da Cisco Secure Access

KEY=XXXXXXXXXXXXXXXXXXXX

## 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

## Accesso sicuro - Creazione connettore risorse in Azure

- Rivedere e fare clic su **Create** per procedere con la creazione del 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

## Accesso sicuro - Creazione connettore risorse in Azure

- Dopo aver fatto clic su **Create**, verrà visualizzata un'opzione per il download della chiave privata. Fare clic su **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

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](#)

## Accesso sicuro - Creazione connettore risorse in Azure



Attenzione: Non perdere la chiave SSH privata; in caso contrario, non è possibile accedere alla CLI di RC e deve essere ridistribuita per la risoluzione dei problemi.

- Dopodiché potrai vedere lo stato del tuo 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>

## Accesso sicuro - Distribuzione del connettore di risorse in Azure



# Verifica

## Accesso dalla CLI di Inbuild Bastion

In Azure, accedere al connettore delle risorse e fare clic su Bastion:

- Authentication Type: **Scegli** SSH Private key from Local File
- Username: È necessario utilizzare acadmin
- Local File: Scegliere il file scaricato private key in precedenza

The screenshot displays the Azure portal interface for configuring Bastion access to a virtual machine. The breadcrumb navigation shows the path: Home > CreateVm-cisco.cisco-resource-connector-cisco-sec-20260122113614 | Overview > Azure-RC. The main heading is "Azure-RC | Bastion" with a star icon and a menu icon. Below the heading is a search bar and a left-hand navigation pane with options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Resource visualizer, Connect, Bastion (highlighted), Networking (with sub-options: Network settings, Load balancing, Application security groups, Network manager), Settings, and Disks. The main content area contains the following information:

- Introduction: "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](#)"
- Using Bastion: **vnet-westus-bastion**
- Provisioning State: **Succeeded**
- Instruction: "Please enter username and password to your virtual machine to connect using Bastion."
- Authentication Type: **SSH Private Key from Local File** (dropdown menu)
- Username: **acadmin** (input field with a green checkmark)
- Local File: **"Azure-RC\_key.pem"** (input field with a file icon)
- Advanced section:  Open in new browser tab
- Connect button

```
cdn.bastionglobal.azure.com/2020-07-15/index.react.html?datapath=ee6d...
Import bookmarks... Quicker Backlog Training Tech Articles Work Links Personal TC-EE Related LAB Secure-Access CSA-IFT Sec
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 10/11/2020 07:00 PM 2020 05 ~ $
```

Accesso sicuro - Accesso alla riga di comando di Connettore risorse

## Accesso a RC dal terminale MAC-OS

Aprire il terminale e usare `ssh -i <percorso-file-chiave-privata> acadmin@x.x.x.x` per collegarsi al connettore delle risorse.

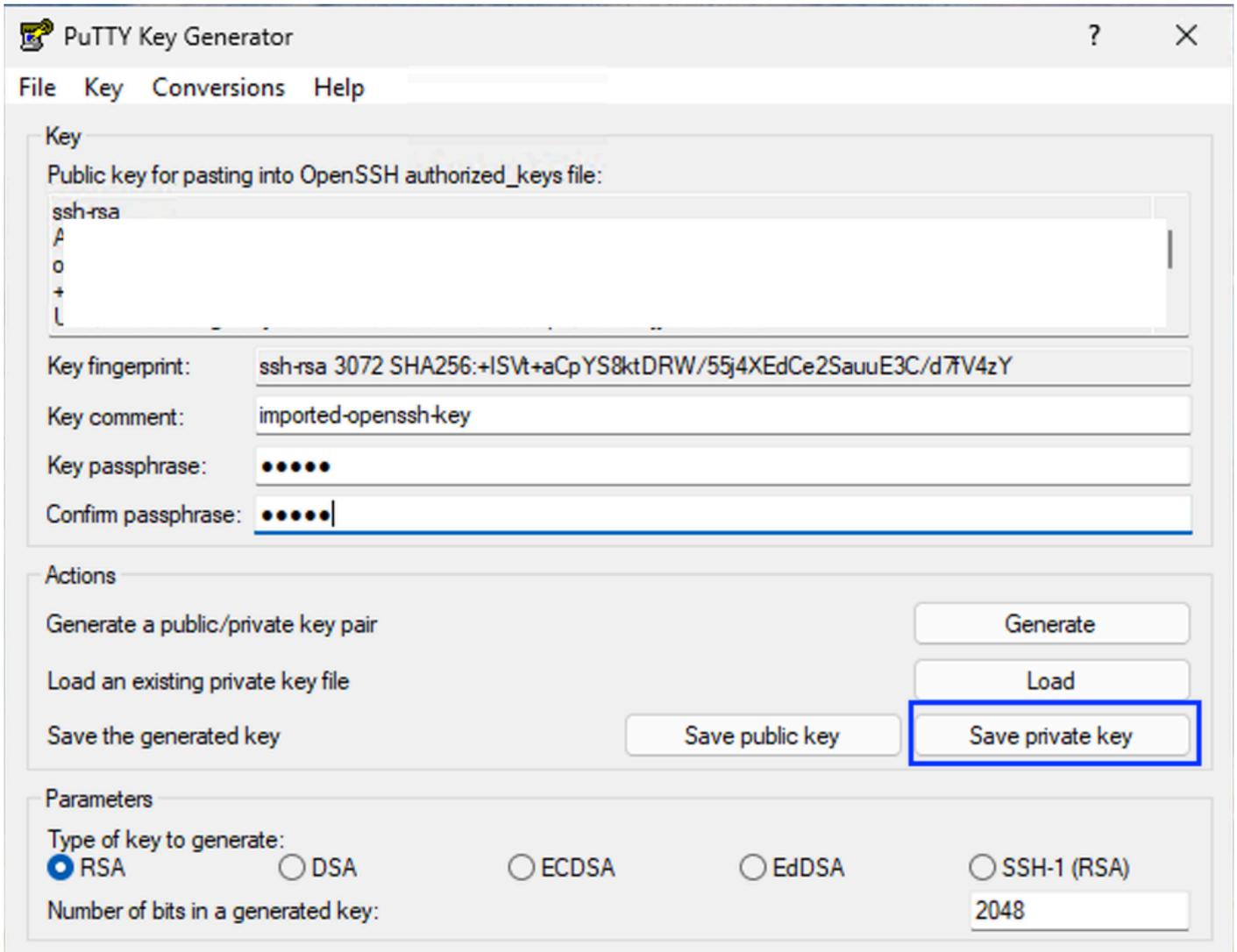
```
Downloads — ssh -i ~/Downloads/Azure-RC_key.pem acadmin@i-... 243x59
You have entered the Console Mode on this Resource Connector.
Type 'help' to get a list of supported commands.

Following is the list of commands available:
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Resource Connector Specific
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uptime     || Shows current time and how long the system has been up and running
vmstat     || Shows VM memory statistics
=====
$
```

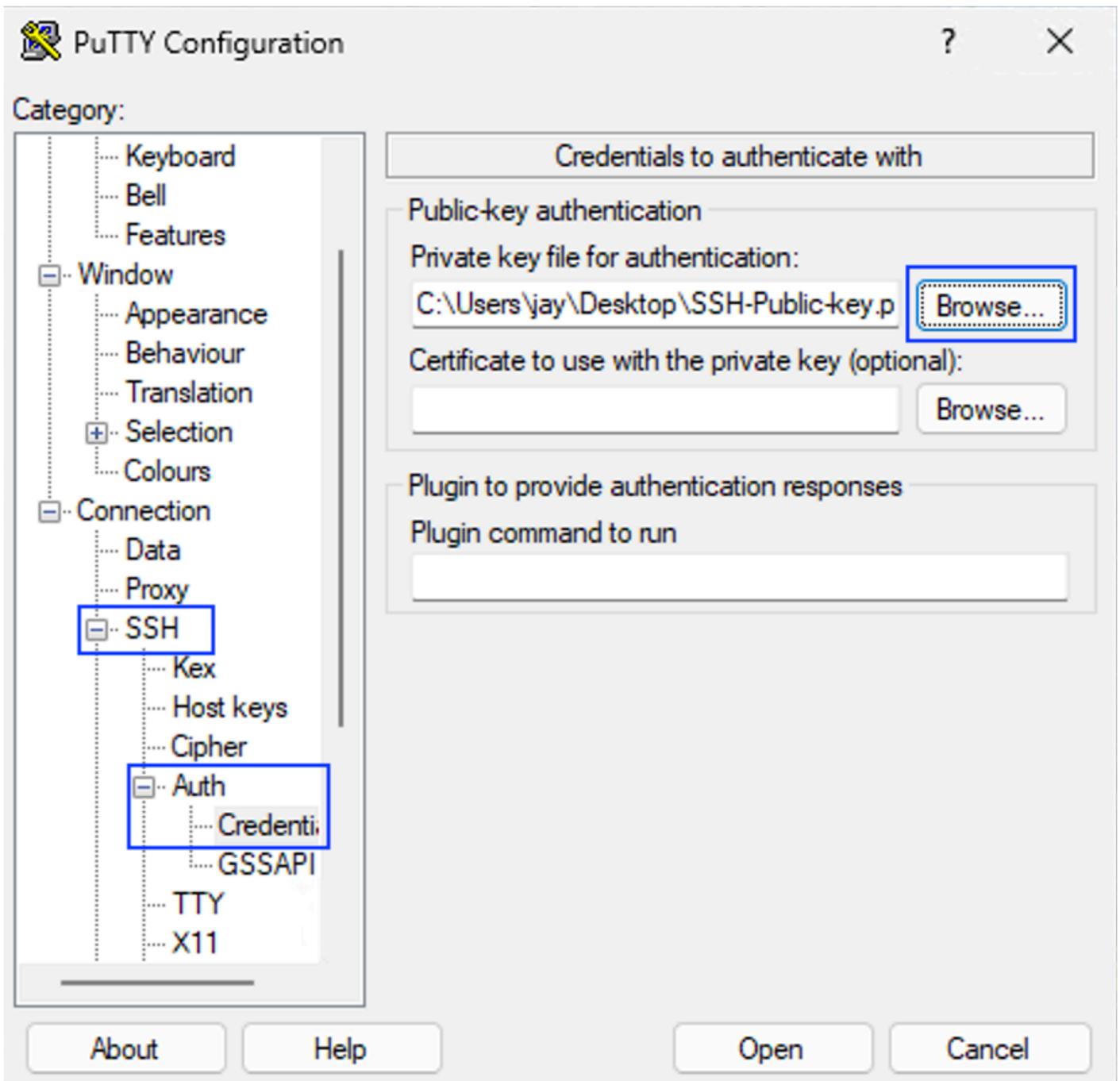
Accesso sicuro - Accesso alla riga di comando di Connettore risorse

## Accesso da Windows - Putty

Per utilizzare la chiave privata, è necessario convertire il SSH private key da .pem a .ppk formart utilizzando Puttygen:



- Salva la chiave privata in formato ppk
- Avviare l'applicazione putty e navigare SSH > Auth > Credentials e sfogliare SSH private key in .ppk formato



- Individuare *Sessione* inserire l'indirizzo IP del connettore di risorse e fare clic su *Open*



Suggerimento: username: passphrase acadmin: passphrase configurata durante la conversione della chiave privata dal formato .pem al formato .ppk

```

routeadd    || Allows (non-persistent) routes to be added with network and gate
way
routedel   || Allows (non-persistent) added routes to be deleted with network
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=====
==
Linux Native
=====
==
Command    || Description

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uptime     || Shows current time and how long the system has been up and runni
ng
vmstat     || Shows VM memorv statistics

```

## Risoluzione dei problemi

Per accedere al comando di risoluzione dei problemi, accedere a .



Attenzione: Non perdere la chiave SSH privata; in caso contrario, non è possibile accedere alla CLI di RC e deve essere ridistribuita per la risoluzione dei problemi.

---

## Informazioni correlate

- [Supporto tecnico Cisco e download](#)
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## Informazioni su questa traduzione

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