

Azure에서 보안 액세스 리소스 커넥터 배포

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소개

이 문서에서는 Azure에서 리소스 커넥터를 단계별로 배포하는 방법에 대해 설명합니다.

사전 요구 사항

필요한 정보를 수집하고

- 커넥터 이미지를 가져옵니다.
 - 이미지를 한 번 다운로드하여 커넥터 그룹의 커넥터 수에 상관없이 사용할 수 있습니다.
 - 이전에 다운로드한 이미지를 사용하는 경우 해당 이미지가 최신 버전인지 확인합니다.
 - 자세한 내용은 커넥터 [이미지 가져오기를 참조하십시오](#).
- 커넥터를 구축하는 특정 커넥터 그룹에 대한 프로비저닝 키를 복사합니다.
[리소스 커넥터에 대한 키 프로비저닝을 참조하십시오](#).

요구 사항

다음 주제에 대한 지식을 보유하고 있으면 유용합니다.

- Cisco Secure Access 대시보드 관리자 액세스
- Azure 포털 액세스
- Cisco 보안 클라이언트
- ZTA가 등록된 Windows 컴퓨터

사용되는 구성 요소

이 문서의 정보는 다음 구성 요소를 사용하여 랩 환경에서 수행한 테스트를 기반으로 합니다.

- ZTNA 클라이언트
- 보안 액세스
- 아주레
- 프라이빗 리소스

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다.

구성

Secure Access의 구성

[Secure Access](#) Dashboard에 [로그인하여 다음](#)으로 이동합니다. **Connect > Network Connections > Connector Groups**

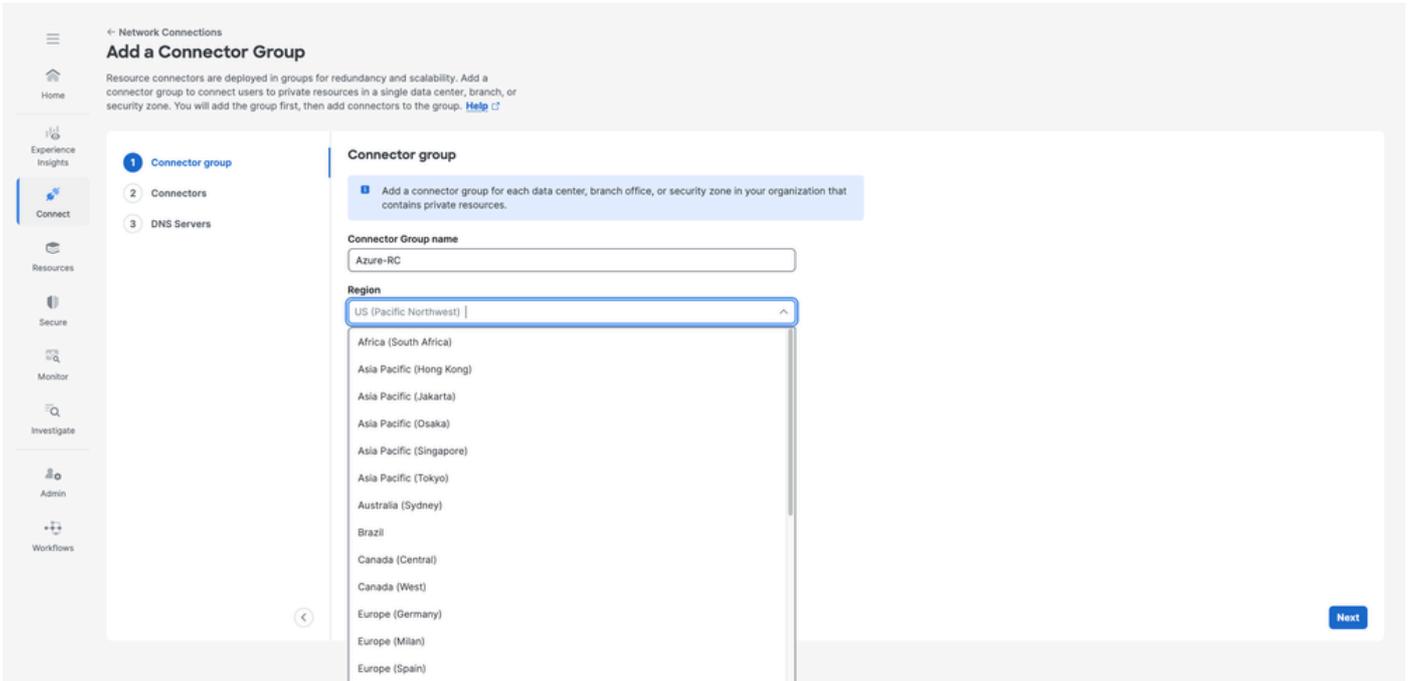
- 클릭 add

The screenshot shows the Cisco Secure Access dashboard. The main content area is titled "Network Connections" and "Connector Groups". Below this, there is a "Next steps" section with a task "1 Assign Private Resources to Connector Group". The main table lists the following connector groups:

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%

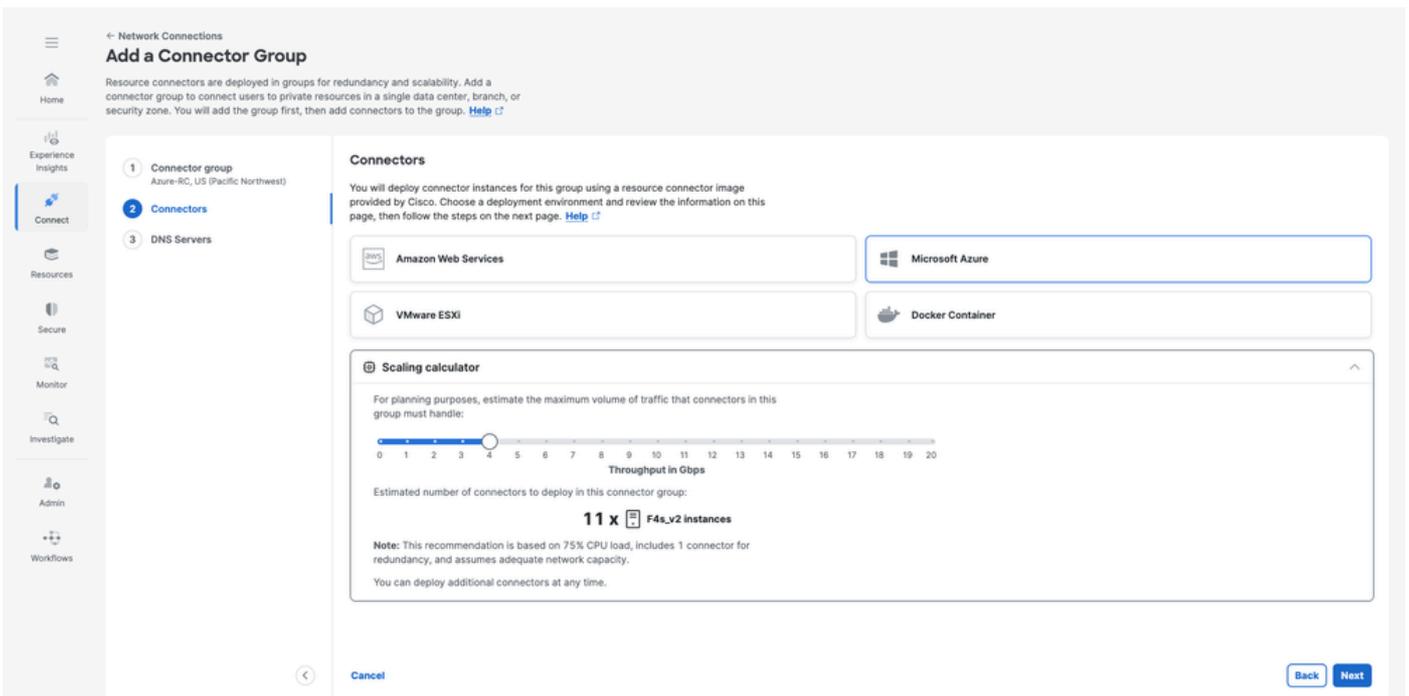
보안 액세스 - 커넥터 그룹

- **및** 을 Connector Group Name 지정합니다. Region
- 클릭 Next



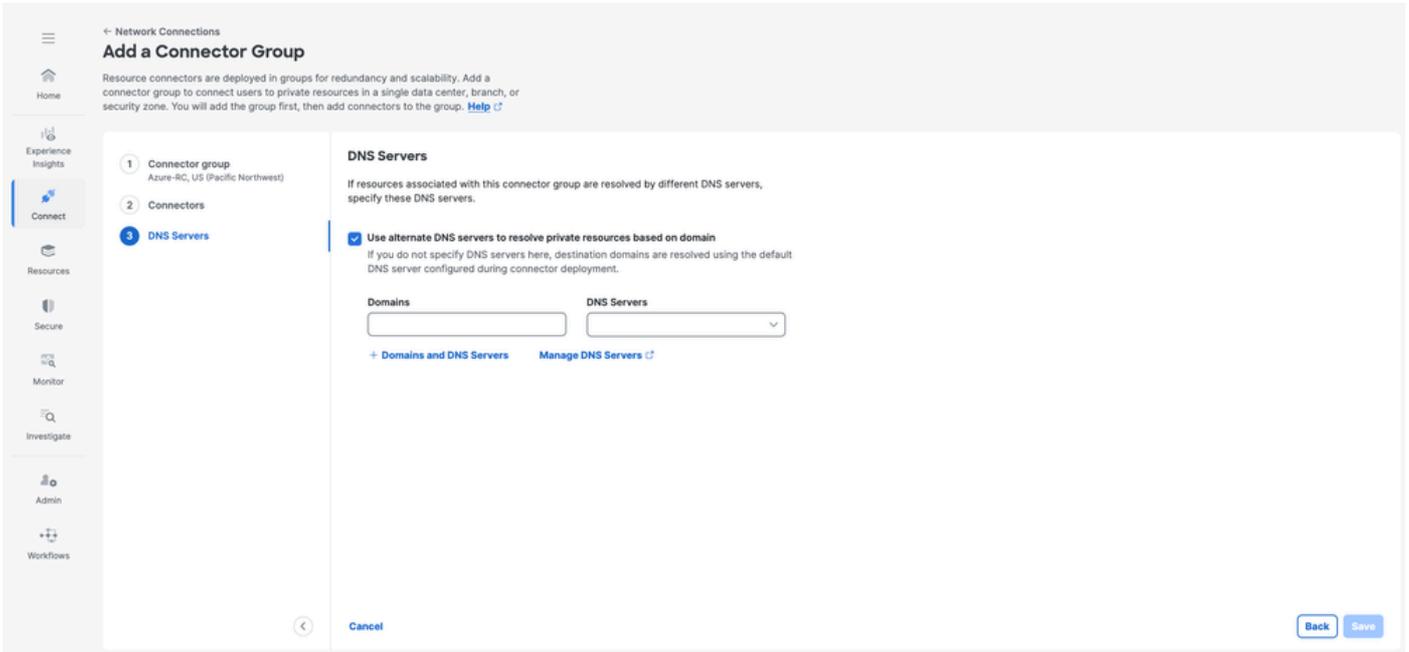
보안 액세스 - 커넥터 그룹 컨피그레이션

- 선택 Microsoft Azure 후 를 사용하여 필요한 Scaling Calculator 리소스를 결정합니다



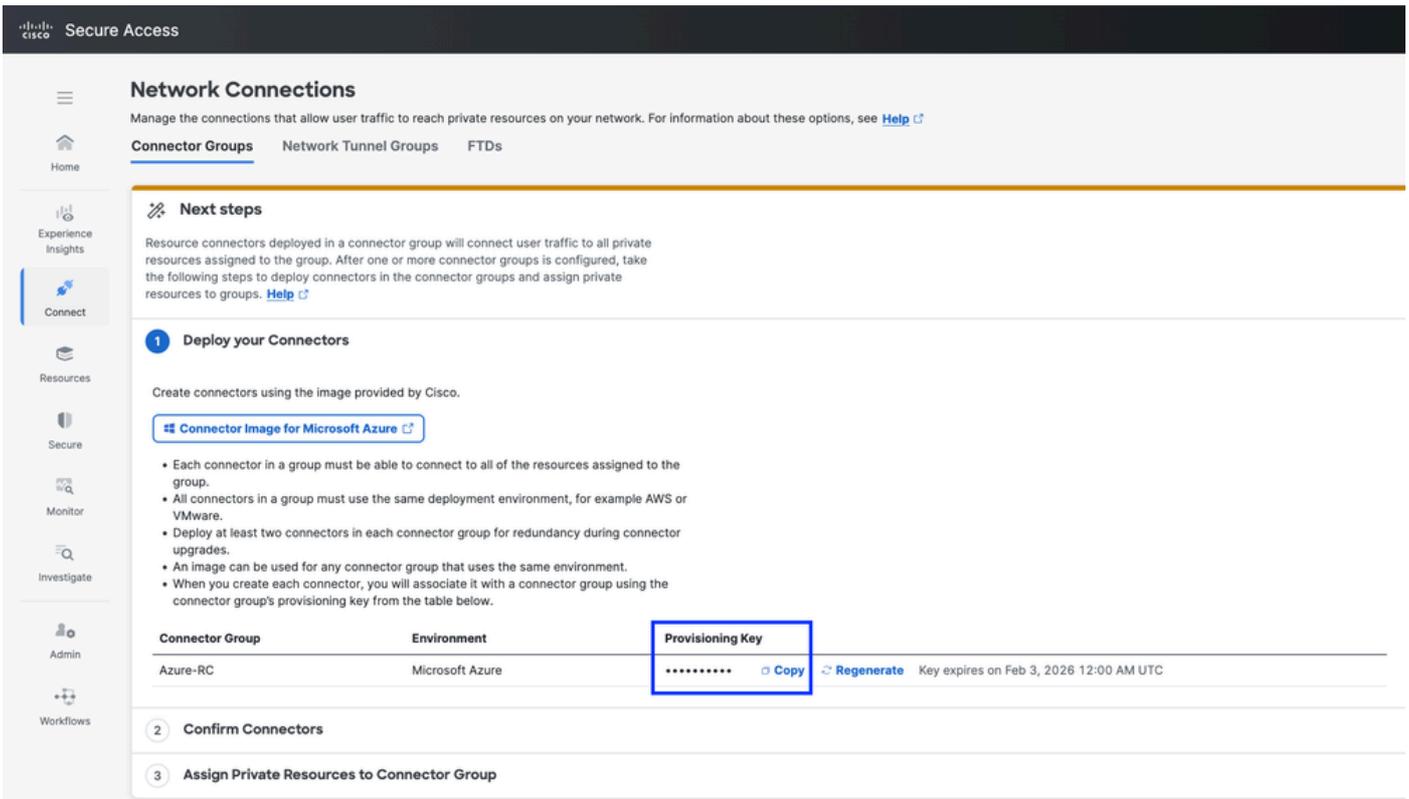
보안 액세스 - 리소스 커넥터 구성 검토

- 전용 DNS 서버를 통해 특정 도메인을 확인하는 옵션을 DNS Servers 활용합니다. 이는 여러 내부 도메인이 있는 조직의 모범 사례로 간주됩니다.
- 클릭 Save



보안 액세스 - 리소스 커넥터 컨피그레이션

- 이 단계에서는 **를 복사해야 합니다** Provisioning Key. Secure Access 테넌트에 대한 등록을 활성화하려면 나중에 Azure에서 리소스 커넥터 배포 중에 필요합니다.



보안 액세스 - 리소스 커넥터 컨피그레이션

Azure의 구성

[Azure](#) 포털로 [이동한](#) 다음 Microsoft Azure 마켓플레이스로 이동하여 Cisco Secure Access Resource Connector 이미지를 검색합니다.

Microsoft Azure Search resources, services, and docs (G+)

Home > Marketplace

Get Started

Service Providers

Search with AI

Management

Private Marketplace

Private Offer Management

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Recently created

Private plans

Categories

Infrastructure Services (1)

Security (1)

AI Apps and Agents (0)

Analytics (0)

Blockchain (0)

Databases (0)

DevOps (0)

Private Marketplace (0)

Search: Cisco Secure Access Resource Connector

Filters: Publisher name: All, Product Type: All, Publisher Type: All, Operating System: All, Pricing: All

Options: Azure benefit eligible only, Azure services only

New! Get AI-generated suggestions for 'cisco secure access resource connector' [View suggestions](#)

Showing 1 to 1 of 1 results for 'Cisco Secure Access Resource Connector'. [Clear search](#)

Cisco Secure Access Resource Connector
Cisco Systems, Inc.

Virtual Machine

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**

Create

Navigation: Previous Page 1 of 1 Next

보안 액세스 - Azure에서 리소스 커넥터 만들기

- 적절한 옵션을 Subscription 선택한 다음 Plan 을 클릭합니다. Create

Microsoft Azure Search resources, services, and docs (G+)

Home > Marketplace >

Cisco Secure Access Resource Connector [Star](#) [More](#)

Cisco Systems, Inc.

Cisco Secure Access Resource Connector [Add to Favorites](#)

Cisco Systems, Inc. | Virtual Machine

Azure benefit eligible

Subscription:

Plan: [Create](#) [Start with a pre-set configuration](#)

Want to deploy programmatically? [Get started](#)

Overview | [Plans + Pricing](#) | [Usage Information + Support](#) | [Ratings + Reviews](#)

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](#)

보안 액세스 - Azure에서 리소스 커넥터 만들기

- 에 대한 컨피그레이션 Disks 및 Networking SSH 공개 키 검토

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 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



주의: 개인 SSH 키를 잃지 마십시오. 그렇지 않으면 RC CLI에 액세스할 수 없으며 문제 해결을 위해 재구축해야 합니다.

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

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](#)
 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**

보안 액세스 - Azure에서 리소스 커넥터 만들기

- Cisco Secure Access에서 Provisioning Key 복사한 내용을 필드에 User data 붙여넣습니다

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 will create soon...

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="xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx"

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

보안 액세스 - Azure에서 리소스 커넥터 만들기

- 를 검토하고 클릭하여 Create의 생성을 진행합니다. 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

< Previous Next > Create

보안 액세스 - Azure에서 리소스 커넥터 만들기

- 를 클릭하면 Create 개인 키를 다운로드할 수 있는 옵션이 나타납니다. 클릭 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](#)

보안 액세스 - Azure에서 리소스 커넥터 만들기



주의: 개인 SSH 키를 잃지 마십시오. 그렇지 않으면 RC CLI에 액세스할 수 없으며 문제 해결을 위해 재구축해야 합니다.

- 그 이후에는 Cisco의 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

Deployment is in progress

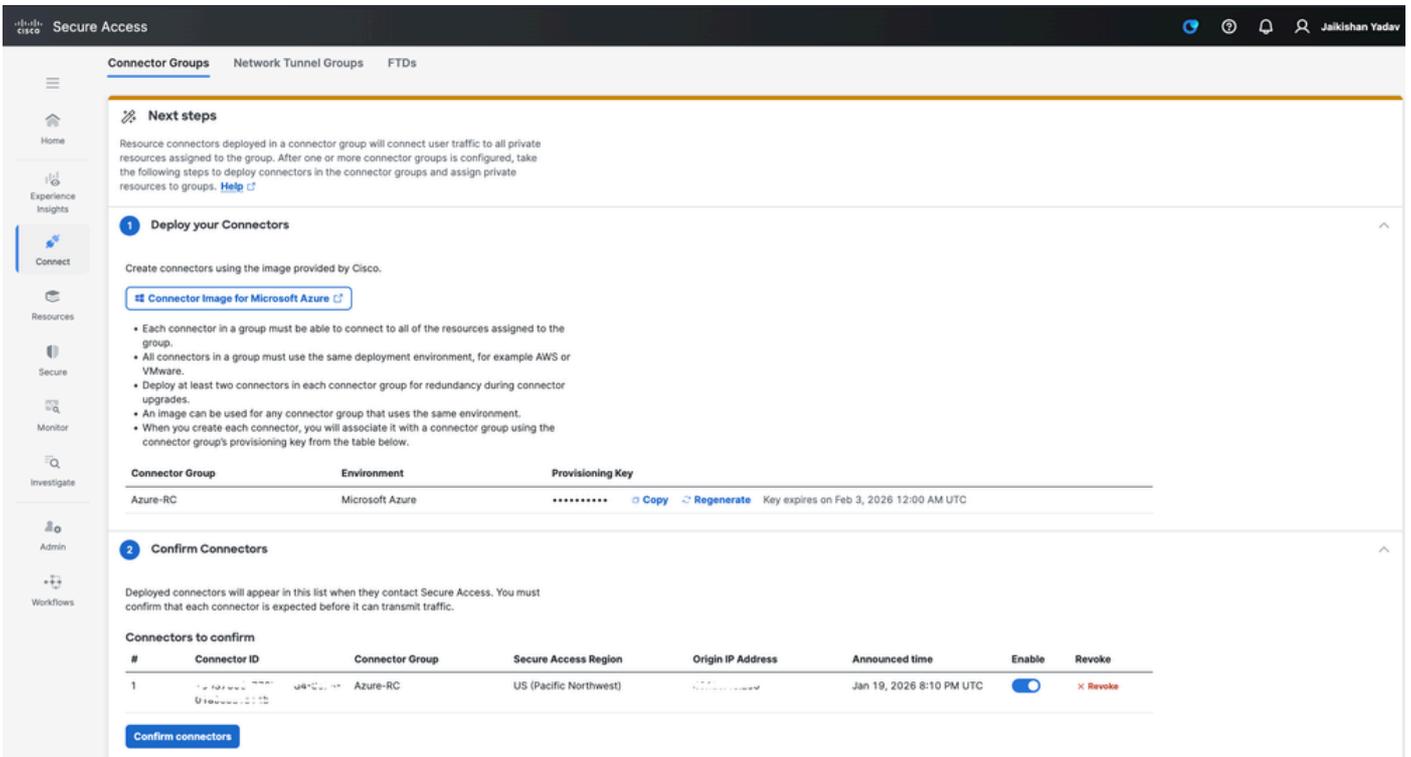
Deployment name: CreateVm-cisco-cisco-resource-connector-cisco-... Start time: 1/19/2026, 3:08:05 PM
 Subscription: cx-tac-sspt-20-azure (cxsecurity) Correlation ID: d6369344-515a-4f8b-ad8e-6f8dccc87418
 Resource group: Jai-Azure-RG

Deployment details

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

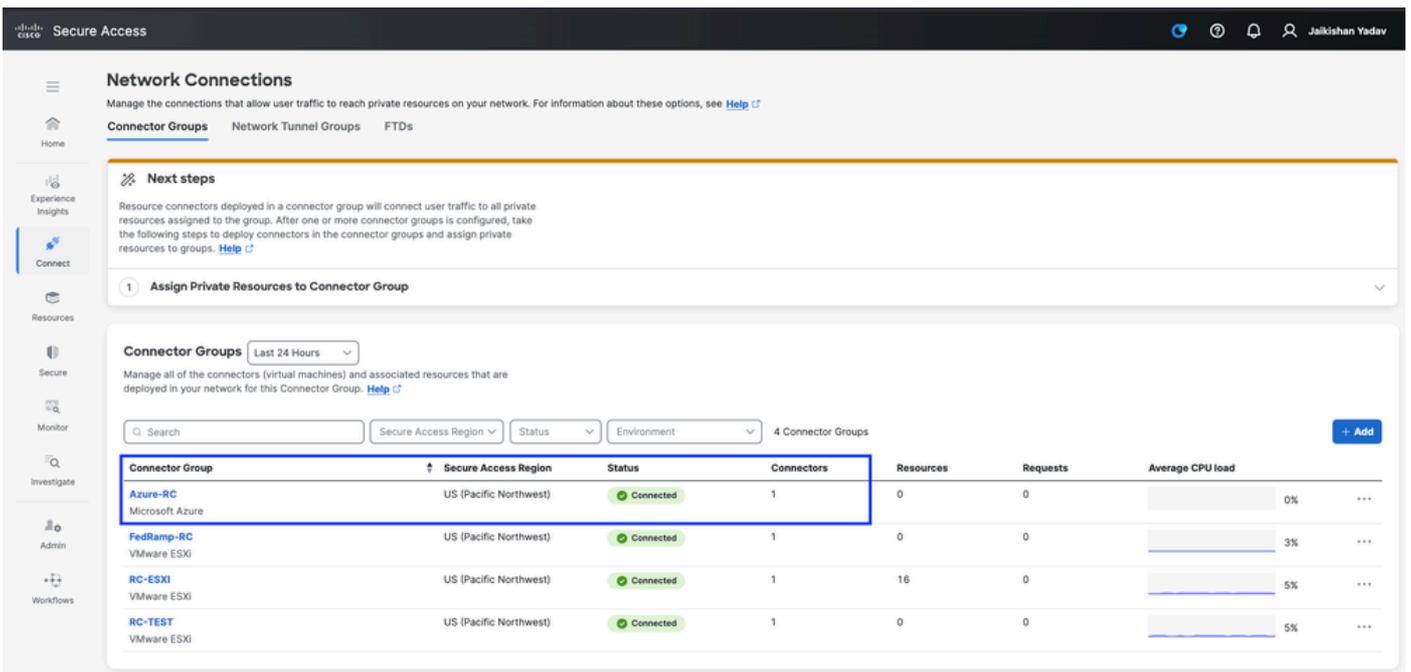
보안 액세스 - Azure의 리소스 커넥터 배포

- 그런 다음 [Secure Access Dashboard\(보안 액세스 대시보드\)](#)로 이동하여 보안 액세스 테넌트에서 Resource Connector 연결 및 성공적인 구축을 확인합니다
- 클릭 **Connect > Network Connections > Connector Groups**
- 옵션 2 Confirm Connectors(커넥터 확인)에서 를 클릭하여 Confirm Connectors 구축을 종료합니다



보안 액세스 - 리소스 커넥터 확인

이제 Secure Access 테넌트에 새로운 Resource Connector가 구축 및 연결된 것을 확인할 수 있습니다.



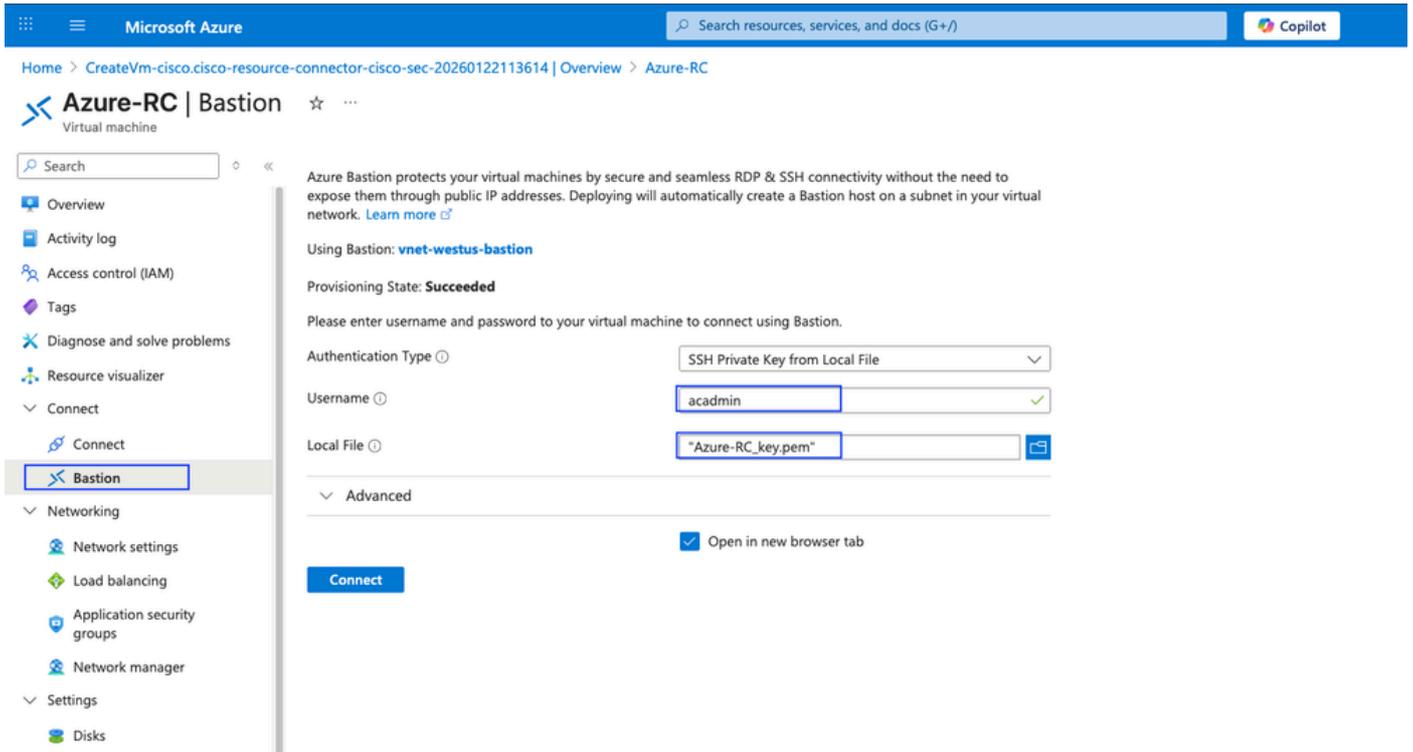
보안 액세스 - 리소스 커넥터

다음을 확인합니다.

인빌드 Bastion CLI에서 액세스

Azure에서 리소스 커넥터에 액세스하고 다음을 클릭합니다Bastion.

- Authentication Type: 선택 SSH Private key from Local File
- Username: 다음을 사용해야 합니다 acadmin
- Local File: 이전에 다운로드한 private key 항목 선택



```
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
7:00:00 AM 2020-07-15 00:25 ~ $
```

보안 액세스 - 리소스 커넥터 명령줄 액세스

MAC-OS 터미널에서 RC에 액세스

터미널을 열고 `ssh -i <private-key-file-path> acadmin@x.x.x.x`를 사용하여 리소스 커넥터에 연결합니다.

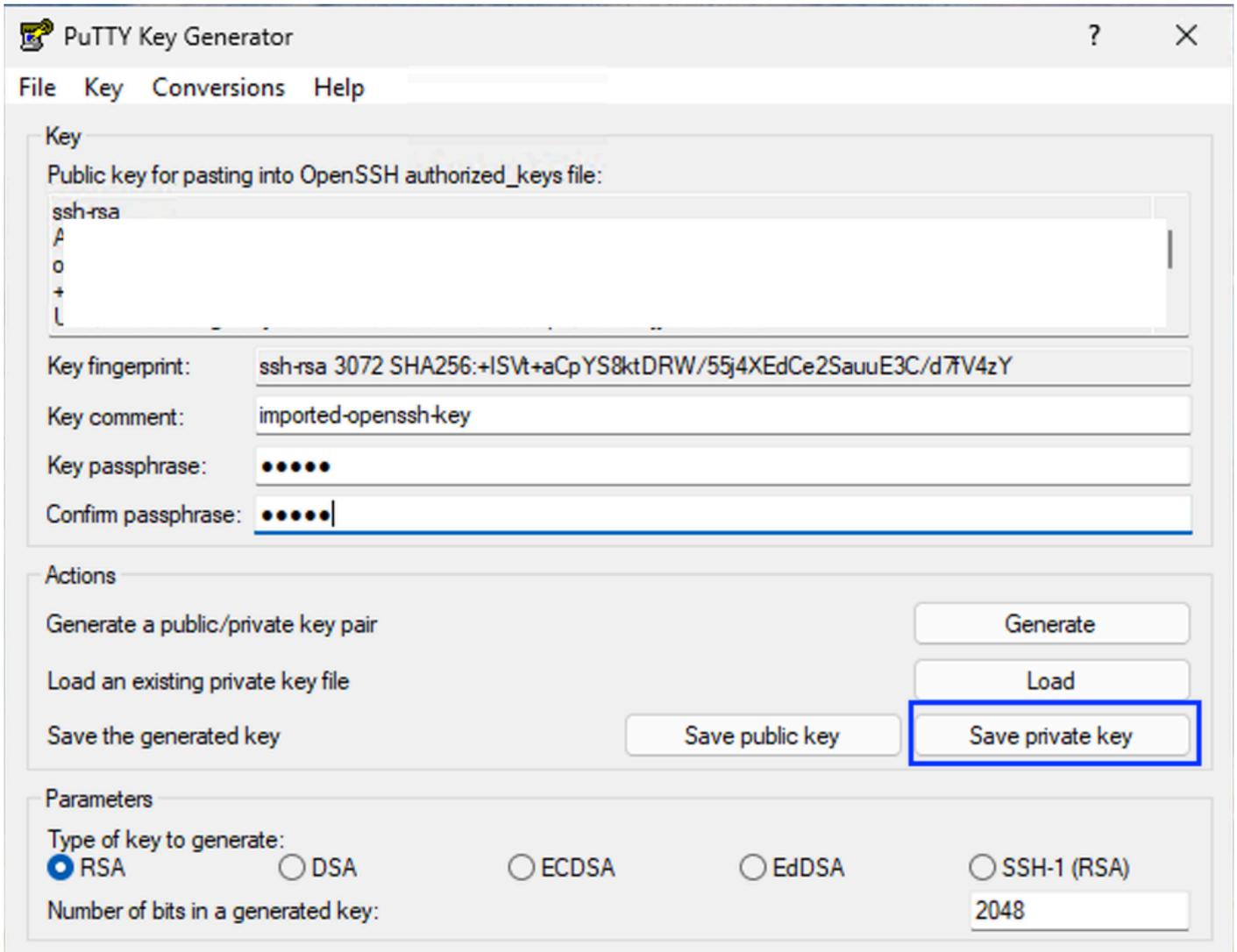
```
Downloads — ssh -i ~/Downloads/Azure-RC_key.pem acadmin@i-... 243x59
You have entered the Console Mode on this Resource Connector.
Type 'help' to get a list of supported commands.

Following is the list of commands available:
=====
Resource Connector Specific
=====
Command    || Description
-----
diagnostic || Run a series of connectivity tests
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
tracroute  || Traceroutes pathway using ICMP packets
uptime     || Shows current time and how long the system has been up and running
vmstat     || Shows VM memory statistics
$
```

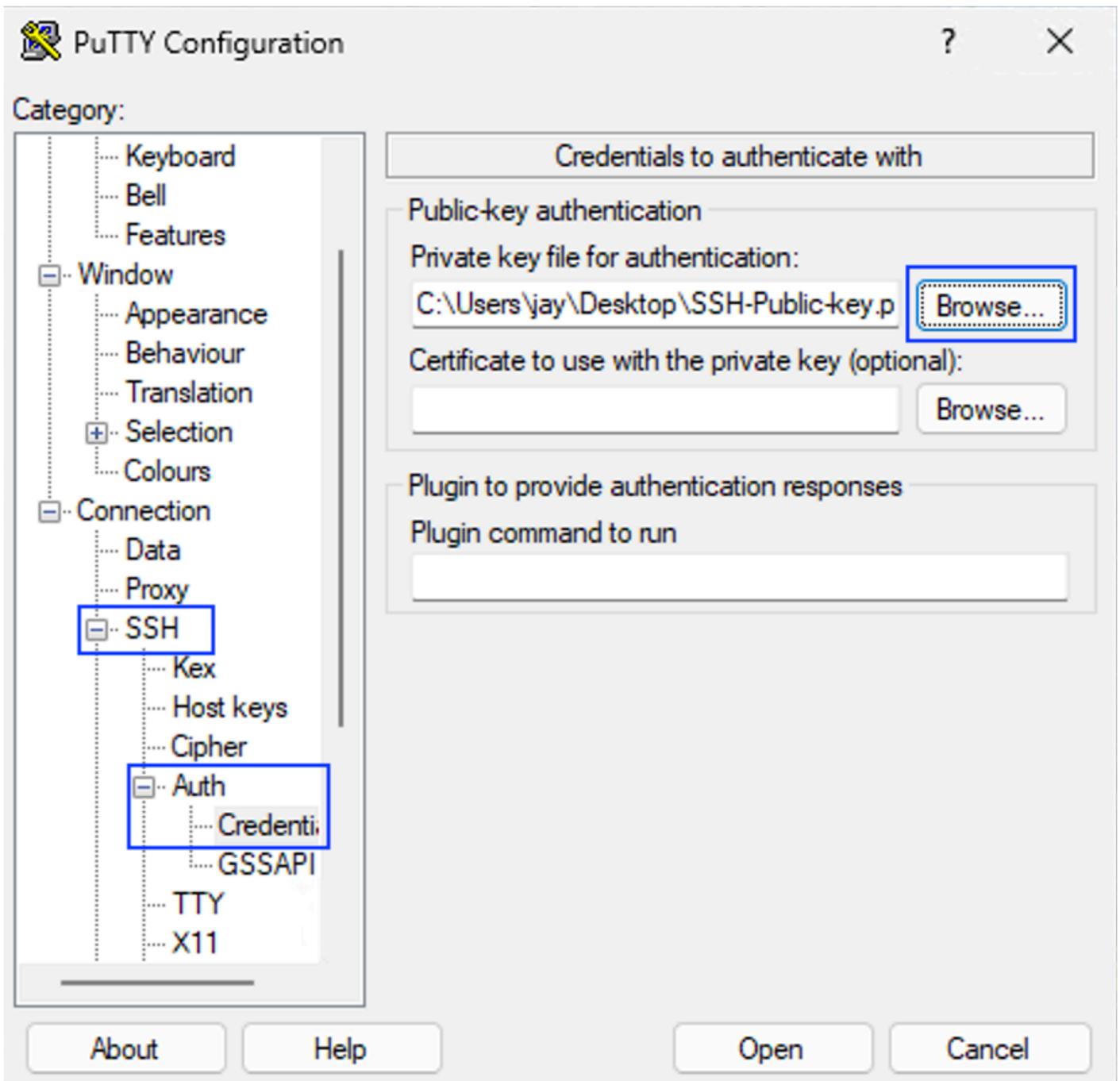
보안 액세스 - 리소스 커넥터 명령줄 액세스

Windows에서 액세스 - Putty

개인 키를 사용하려면 Puttygen SSH private key 다음을 사용하여 `.pem` 포맷으로 변환해야 합니다.



- 개인 키를 .ppk 형식으로 저장합니다.
- putty 애플리케이션을 시작하고 로SSH > Auth > Credentials이동하여 를SSH private key 찾습니다. .ppk 형식



- Resource ConnectorSession의 IP 주소로 이동하여 입력한 다음 Open



팁: 사용자 이름: acadmin 패스프레이즈: 개인 키를 .pem에서 .ppk 형식으로 변환하는 동안 구성된 암호

```

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```

문제 해결

에 액세스하여 문제 해결 명령에 액세스합니다.



주의: 개인 SSH 키를 잃지 마십시오. 그렇지 않으면 RC CLI에 액세스할 수 없으며 문제 해결을 위해 재구축해야 합니다.

관련 정보

- [Cisco 기술 지원 및 다운로드](#)
- [기타 보안 액세스 문서](#)

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