

User Control with the Passive Identity Agent

The following topics discuss how to configure and use the passive identity agent.

- The Passive Identity Agent Identity Source, on page 1
- Deploy the Passive Identity Agent, on page 2
- How to Create a Passive Identity Agent Identity Source, on page 7
- Configure the Passive Identity Agent, on page 9
- Monitor the Passive Identity Agent, on page 21
- Manage the Passive Identity Agent, on page 22
- Troubleshoot the Passive Identity Agent, on page 24
- Security Requirements for the Passive Identity Agent, on page 25
- Internet Access Requirements for the Passive Identity Agent, on page 25
- History for the Passive Identity Agent, on page 26

The Passive Identity Agent Identity Source

The passive identity agent identity source sends session data from Microsoft Active Directory (AD) to the Cisco Security Cloud Control. All you need is a supported Microsoft AD setup as discussed in About Realms and Realm Sequences.



Note

You do not need to configure the Cisco Identity Services Engine (ISE) to use this identity source.

Passive identity agent roles

The passive identity agent supports the following roles:

- Standalone: A passive identity agent that is not part of a redundant pair. A standalone agent can download users and groups from multiple Active Directory servers and domain controllers, provided the software is installed on all of them.
- Primary: (Primary agent in a redundant pair.) Can be installed on a Microsoft AD domain controller, directory server, or any network client.

Handles all communication with the Cloud-delivered Firewall Management Center unless it stops communicating, in which case communication is handled by secondary agents.

 Secondary: (Secondary, or backup, agent in a redundant pair.) Can be installed on a Microsoft AD domain controller, directory server, or any network client.

Monitors the health of the primary agent and takes over if the primary agent stops communicating with the Cloud-delivered Firewall Management Center.

Passive identity agent system requirements

The passive identity agent requires the following:

- If you install it on a Windows Active Directory server, the server must run Windows Server 2008 or later.
- If you install it on a Windows client attached to the domain, the client must run Windows 8 or later.
- The system clock on all systems must be synchronized. We strongly recommend using the same NTP servers on all of them. This means:
 - The Security Cloud Control.

For more information, see Configure NTP Server.

- All Windows Active Directory servers and domain controllers.
- The machine on which the passive identity agent is installed.
- Security Cloud Control must run November 8, 2024 or later.
- You must enable Snort 3 on the Secure Firewall Threat Defense devices.

Passive identity agent limitations

The passive identity agent the following limitations:

- Up to 10 agents simultaneously
- One passive identity agent identity source can monitor up to 50 AD directories
- Up to 300,000 concurrent user sessions
- IPv6 addresses are not supported

Deploy the passive identity agent

For information about deployment options, see Deploy the Passive Identity Agent, on page 2.

Deploy the Passive Identity Agent

You can install the Passive Identity Agent software on any machine that is part of a Microsoft Active Directory (AD) domain you want to use for user awareness and control. In other words, you can install it on any of the following:

- · The Microsoft Active Directory server
- A domain controller

• A client connected to the network that is neither the directory server nor a domain controller

Any particular passive identity agent can monitor one or several Active Directory domain controllers in the same domain.

The machine on which the passive identity agent must communicate with the Cloud-delivered Firewall Management Center using the TLS/SSL protocol. For more information, see Internet Access Requirements for the Passive Identity Agent, on page 25.

Types of agents

You can configure the following types of agents on the Microsoft AD directory server, domain controller, or on any client connected to the domain:

- Standalone agent: One agent that can monitor one or several Active Directory domain controllers in the same domain.
- Primary agent and secondary agent that can monitor one or several AD domain controllers in the same domain: To provide redundancy, you can install a primary and secondary agent on different machines. The primary is responsible for communicating with the Cloud-delivered Firewall Management Center but if communication fails, the secondary agent takes over.

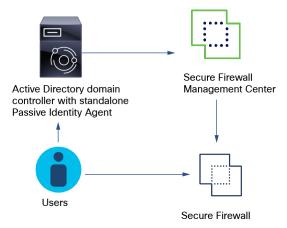
See one of the following topics for more information.

Related Topics

Simple Passive Identity Agent Deployment, on page 3 Single Passive Identity Agent Monitoring Multiple Domain Controllers, on page 4 Multiple Passive Identity Agents Monitoring Multiple Domain Controllers, on page 4 Passive Identity Agent Primary/Secondary Agent Deployments, on page 6

Simple Passive Identity Agent Deployment

The following diagram shows the simplest passive identity agent deployment.



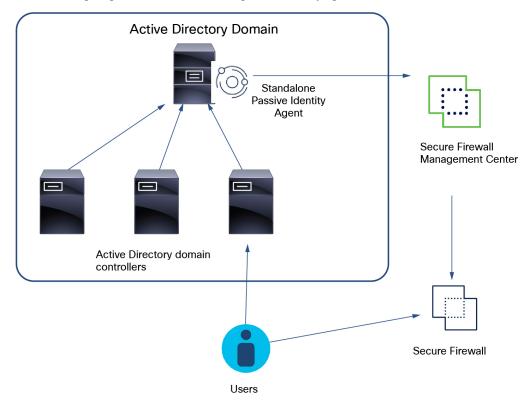
In the preceding example, a standalone passive identity agent is installed on the AD domain controller. Users log in and out of the AD domain and the agent sends user name and IP address information to the

Cloud-delivered Firewall Management Center. As users access the network, access control and identity policies deployed to the Secure Firewall Threat Defense determine whether or not, and how, access is allowed.

You can install a passive identity agent on the AD domain controller, directory server, or on any client connected to the domain you wish to monitor.

Single Passive Identity Agent Monitoring Multiple Domain Controllers

The following diagram shows a standalone passive identity agent that monitors several AD domain controllers.



In the preceding diagram, the standalone passive identity agent is installed on a client attached to the AD domain (or on the domain controller itself). Users log in to any domain controller and the agent sends user and IP address information to the Cloud-delivered Firewall Management Center. As users access the network, access control and identity policies deployed to the Secure Firewall Threat Defense determine whether or not, and how, access is allowed.

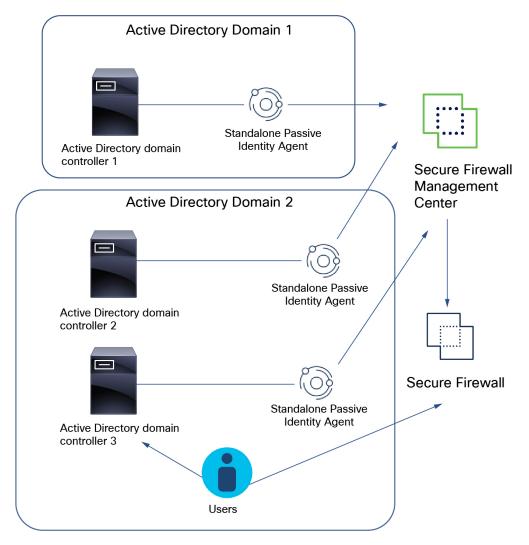
You can install a passive identity agent on the AD domain controller, directory server, or on any client connected to the domain you wish to monitor.

Multiple Passive Identity Agents Monitoring Multiple Domain Controllers

The following figure shows standalone monitoring multiple AD domain controllers:

• In AD domain 1, a standalone passive identity agent installed on a machine attached to AD domain controller 1 sends user and IP address mapping data to the Cloud-delivered Firewall Management Center.

• In AD domain 2, standalone agents installed on AD domain controllers 1 and 2 send user and IP address mapping data to the Cloud-delivered Firewall Management Center.



You can install a passive identity agent on the AD domain controller, directory server, or on any client connected to the domain you wish to monitor.

The preceding figure shows three passive identity agents, each configured as a standalone. To do this:

1. Create two Microsoft AD realms: one for each AD domain.

See Create an LDAP Realm or an Active Directory Realm and Realm Directory.

- 2. For AD domain 2, create two directories, one for each domain controller.
- 3. Install the Passive Identity Agent software on a client that can log in to the domain.

Configure each passive identity agent individually to communicate with the Cloud-delivered Firewall Management Center on which you configure the passive identity agent source.

See Install the Passive Identity Agent Software, on page 18.

4. Create the passive identity agent identity source.

See Create a Primary or Secondary Passive Identity Agent Identity Source, on page 12.

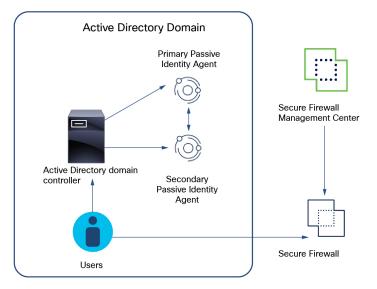
Passive Identity Agent Primary/Secondary Agent Deployments

To provide redundancy and to avoid a single point of failure, you can configure primary and secondary passive identity agents in any of the ways shown in this topic.

You can install a passive identity agent on the AD domain controller, directory server, or on any client connected to the domain you wish to monitor.

Single AD domain controller with primary and secondary agents

The following figure shows how to set up primary and secondary passive identity agents on one AD domain controller. If the primary agent fails, the secondary takes over.



To set this up:

1. Create a Microsoft AD realm that has one directory for the domain controller.

See Create an LDAP Realm or an Active Directory Realm and Realm Directory.

2. Install the passive identity agent software on any two network machines connected to the domain controller.

Configure each passive identity agent individually to communicate with the Cloud-delivered Firewall Management Center on which you configure the passive identity agent source.

See Install the Passive Identity Agent Software, on page 18.

3. Create the identity source.

See Create a Primary or Secondary Passive Identity Agent Identity Source, on page 12.

Active Directory Domain

Multiple AD domain controllers, primary and secondary agents

The preceding figure shows how to configure primary and secondary agents to monitor three AD domain controllers. If the primary agent fails, the secondary agent takes over.

To set this up:

1. Create a Microsoft AD realm that has one directory for the domain controller.

See Create an LDAP Realm or an Active Directory Realm and Realm Directory.

2. Install the passive identity agent software on any machine connected to the domain controller.

Configure each passive identity agent individually to communicate with the Cloud-delivered Firewall Management Center on which you configure the passive identity agent source.

See Install the Passive Identity Agent Software, on page 18.

3. Create the identity source.

See Create a Primary or Secondary Passive Identity Agent Identity Source, on page 12.

How to Create a Passive Identity Agent Identity Source

The following provides high-level tasks required to configure the passive identity agent identity source in the Cloud-delivered Firewall Management Center and to deploy agent software to your Microsoft Active Directory (AD) servers.

Procedure

	Command or Action	Purpose
Step 1	Create a realm for your Microsoft AD domain and domain controllers.	<i>Realms</i> are connections between the Cloud-delivered Firewall Management Center and the user accounts on the servers you monitor. They specify the connection settings and authentication filter settings for the server.
		For more information, see Create an LDAP Realm or an Active Directory Realm and Realm Directory.
Step 2	Create a passive identity agent identity source.	The identity source allows the Cloud-delivered Firewall Management Center and passive identity agent to communicate with each other. Create standalone, primary, or secondary agents, depending on your needs.
		For more information, see:
		• About Passive Identity Agent Roles, on page 14
		Create a Passive Identity Agent Identity Source, on page 9
Step 3	Create a passive identity agent user on the Cloud-delivered Firewall Management Center.	We provide a role sufficient for the agent and manager to communicate with each other. We recommend using that role and no other for the passive identity agent user.
Step 4	Install the passive identity agent software.	The way you install the agent depends on your deployment.
		You can install a passive identity agent on the AD domain controller, directory server, or on any client connected to the domain you wish to monitor.
		For more information, see:
		• Deploy the Passive Identity Agent, on page 2
		• Install the Passive Identity Agent Software, on page 18

What to do next

Create an LDAP Realm or an Active Directory Realm and Realm Directory.

Configure the Passive Identity Agent

The following topics discuss how to configure the passive identity agent.

Related Topics

Create an LDAP Realm or an Active Directory Realm and Realm Directory Create a Passive Identity Agent Identity Source, on page 9 Create a Cisco Security Cloud Control User for the Passive Identity Agent, on page 15 Install the Passive Identity Agent Software, on page 18

Create a Microsoft Active Directory Realm

The passive identity agent requires you to create a Microsoft Active Directory (AD) realm and directories in the Cloud-delivered Firewall Management Center as discussed in Create an LDAP Realm or an Active Directory Realm and Realm Directory.

Create a Passive Identity Agent Identity Source

This task discusses how to create a passive identity agent that sends user session activity to the Cloud-delivered Firewall Management Center.

Before you begin

Complete the following:

- Review passive identity agent roles as discussed in About Passive Identity Agent Roles, on page 14.
- Create a Microsoft AD realm as discussed in Create an LDAP Realm or an Active Directory Realm and Realm Directory.

Procedure

- **Step 1** Log in to the Cisco Security Cloud Control.
- Step 2 Click Objects.
- **Step 3** Integration > Other Integrations > Identity Sources
- Step 4 Click Passive Identity Agent.
- Step 5 Click Create Agent.
- **Step 6** In the Configure Agent dialog box, enter the following information:

Item	Description
Name	Enter a unique name to identify this passive identity agent.
Description	Enter an optional description.

ltem	Description
Role	Click one of the following:
	• Primary : The agent responsible for communicating with the Cisco Security Cloud Control.
	Not available if you choose Standalone .
	• Secondary : Becomes the primary if the primary loses contact with the Cisco Security Cloud Control.
	Not available if you choose Standalone .
	• Standalone: If there is only one passive identity agent.
	For more information about roles, see About Passive Identity Agent Roles, on page 14.

Step 7

Continue with:

- Create a Standalone Passive Identity Agent Identity Source, on page 10
- Create a Primary or Secondary Passive Identity Agent Identity Source, on page 12

Create a Standalone Passive Identity Agent Identity Source

This task discusses how to configure a standalone passive identity agent.

Before you begin

Complete the tasks discussed in Create a Passive Identity Agent Identity Source, on page 9.

Procedure

Step 1

In the Configure Agent dialog box, enter the following information:

Item	Description
Role	Click Standalone.
Domain Controller	From the list, select the check box next to each domain controller that has a passive identity agent you wish to use for identity management and user control.

The following figure shows an example of a standalone passive identity agent identity source.

Role Primary Secondary Standalone Learn more about the agent role. Domain Controller * Dogus.example.com × + + + + + + + + + + + + + + + + + +	lame *			
Primary Secondary Standalone Learn more about the agent role. Domain Controller * bogus.example.com × + Agent will monitor this domain controller. Important: This agent will be created and assigned to the selected domain controller. Install it on the domain controller (or on its member machine) to start the tracking. Cancel Save the Configure Agent dialog box, click Save. the top right corner of the page, click Save.	Standalone			
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Domain Controller * bogus.example.com × > + Agent will monitor this domain controller. + Important: This agent will be created and assigned to the selected domain controller. Install it on the domain controller (or on its member machine) to start the tracking. • Cancel Save the Configure Agent dialog box, click Save. the top right corner of the page, click Save.	🔵 Primary 🔵 Secondary 💿 Standak	one		
bogus.example.com × Important Agent will monitor this domain controller. Important: This agent will be created and assigned to the selected domain controller. Install it on the domain controller (or on its member machine) to start the tracking. Cancel Save the Configure Agent dialog box, click Save. the top right corner of the page, click Save.	earn more about the agent role.			
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	mportant: his agent will be created and assigned to the selecter on the domain controller (or on its member machine) the Configure Agent dialog box	Cancel Save		

			You have unsaved changes Cancel
Configure Identity Sources			
	the identity source. Deploy the changes after y	rou're finished.	
Service Type:			
None Identity Services En	gine Passive Identity Agent		
i Your changes will be effective after yo	ou save Passive Identity Agent as the Identity S	ource.	
Your changes will be effective after yo Q Search by agent name or domain control		ource.	Create Agen
	ller name	ource. Hostname 🛙	Create Agent
Q Search by agent name or domain contro			

Note

Step 2 Step 3

The passive identity agent won't be active until you create a user and install the software.

What to do next

- See Create a Cisco Security Cloud Control User for the Passive Identity Agent, on page 15
- Install the Passive Identity Agent Software, on page 18

Create a Primary or Secondary Passive Identity Agent Identity Source

The following task continues from Create a Passive Identity Agent Identity Source, on page 9.

Before you begin

Complete the tasks discussed in Create a Passive Identity Agent Identity Source, on page 9.

Procedure

Step 1

1 In the Configure Agent dialog box, enter the following information:

Item	Description
Role	Click one of the following:
	• Primary : The agent responsible for communicating with the Secure Firewall Management Center.
	• Secondary : Becomes the primary if the primary loses contact with the Secure Firewall Management Center.
	For more information about roles, see About Passive Identity Agent Roles, on page 14.
Primary Agent Hostname/IP Address	(Primary agent only.) Enter the fully qualified domain name or IP address of the server on which the primary passive identity agent is installed.
	The passive identity agent supports IPv4 addresses and fully qualified domain names only. IPv6 addresses are not supported.
Secondary Agent Hostname/IP Address	(Secondary agent only.) Enter the fully qualified host name or IP address of the server on which the secondary passive identity agent is installed.
	The passive identity agent supports IPv4 addresses and fully qualified domain names only. IPv6 addresses are not supported.
Primary Agent	(Secondary agent only.) From the list, click the name of the primary passive identity agent.
Domain Controller	(Primary agent only.) From the list, select the check box next to each domain controller that has a passive identity agent you wish to use for identity management and user control.

The following figure shows an example of a primary agent:

Configure Agent		?
Name *		
Primary		
Description		
Role 🛙		
💽 Primary 🔵 Secondary 🔵 Standalo	ne	
Learn more about the agent role.		
Primary Agent Hostname/IP Address *		
192.0.2.110		
Enter an HA host name where you would want to host i	the agent.	
Domain Controller *		
forest.example.com X	⊗ ~	+
Agent will monitor this domain controller.		
Important:		
This agent will be created and assigned to the selected	d domain controller. I	nstal
it on the domain controller (or on its member machine)		
	Cancel Sa	ve

The following figure shows an example of a secondary agent:

connigu	ire Agent		3
Name *			
Secondary			
Description			
Role 🛛			
O Primary	Secondary	Standalone	
Learn more abo	out the agent role.		
		Adda a t	
	gent Hostname/IP	'Address *	
192.0.2.111			
Enter an HA ho	st name where you wo	ould want to host the agent.	
Primary Age	nt *		
Primary			~
Select a primar	y agent for your secor	ndary agent.	
Important: This agent will I	ne associated with the	e selected primary agent. Install i	it on the
		achine) to make it a high availabi	
		Cancel	Save

- **Step 2** In the Configure Agent dialog box, click **Save**.
- **Step 3** In the top right corner of the page, click **Save**.

The following figure shows an example.

			You have unsaved changes	Cancel Save	
Configure Identity Sources Select the service type and start configuring the identity source, Deploy the changes after you're finished. Service Type:					
O None O Identity Services Engine	Passive Identity Agent				
Your changes will be effective after you save Pas	sive Identity Agent as the Identity Source.				
Q Search by agent name or domain controller name				Create Agent	
Domain Controllers	Monitoring Agents	Hostname	Connection Status 😳 🛛		
> bogus					
✓ forest.example.com					
forest.example.com	Primary (primary) Secondary (secondary)	192.0.2.110 192.0.2.111			

Note

The passive identity agent won't be active until you create a user and install the software.

What to do next

- See Create a Cisco Security Cloud Control User for the Passive Identity Agent, on page 15
- See Install the Passive Identity Agent Software, on page 18

About Passive Identity Agent Roles

The passive identity agent has the following roles:

- Standalone: A passive identity agent that is not part of a redundant pair. A standalone agent can download users and groups from multiple Active Directory servers and domain controllers, provided the software is installed on all of them.
- Primary: (Primary agent in a redundant pair.) Can be installed on a Microsoft AD domain controller, directory server, or any network client.

Handles all communication with the Cloud-delivered Firewall Management Center unless it stops communicating, in which case communication is handled by secondary agents.

 Secondary: (Secondary, or backup, agent in a redundant pair.) Can be installed on a Microsoft AD domain controller, directory server, or any network client.

Monitors the health of the primary agent and takes over if the primary agent stops communicating with the Cloud-delivered Firewall Management Center.

The can monitor several AD domain controllers that art part of the same domain.

Create a Cisco Security Cloud Control User for the Passive Identity Agent

This task discusses how to create a Secure Firewall Management Center user with sufficient permissions to communicate with the passive identity agent. This user has limited privileges to perform other tasks; the user is expected only to enable communication with the passive identity agent.

Note

Use *only* the **Passive Identity User** role for the passive identity agent user. In particular, *do not* use the **Administrator** role for the passive identity agent because **Administrator** will be logged off at a regular basis as the passive identity agent communicates with the Secure Firewall Management Center.

Before you begin

Complete the tasks discussed in Create a Passive Identity Agent Identity Source, on page 9.



Note You cannot use external authentication with the Passive Identity Agent user.

Procedure

	Step 1	Log in to the C	Cisco Security C	Cloud Control.
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- **Step 2** Click **System** $(\clubsuit) >$ **Users** > **Users**.
- Step 3 Click Create User.
- **Step 4** Create the user as discussed in Add or Edit an Internal User in the *Cisco Secure Firewall Management Center Administration Guide*.
- Step 5 Select the Passive Identity User role.

The following figure shows an example.

User Configuration	
User Name	Passiveldentity
Real Name	
Email Address	
Authentication	Use External Authentication Method
Password	•••••
Confirm Password	•••••
Maximum Number of Failed Logins	0 (0 = Unlimited)
Minimum Password Length	2
Days Until Password Expiration	0 (0 = Unlimited)
Days Before Password Expiration Warning	0
Options	Force Password Reset on Login Check Password Strength Exempt from Browser Session Timeout
User Role Configuration	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Default User Roles	 Administrator External Database User (Read Only) Security Analyst Security Analyst (Read Only) Security Approver Intrusion Admin Access Admin Network Admin Maintenance User Discovery Admin Threat Intelligence Director (TID) User Passive Identity User
	Cancel

Note

Do not choose a role for the passive identity agent user other than **Passive Identity User** because the agent will not function properly.

Step 6 Click Save.

What to do next

Install the Passive Identity Agent Software, on page 18.

Troubleshoot the Passive Identity Agent

This topic discusses how you can troubleshoot the passive identity agent software on your Windows AD domain controller or directory server.

(Optional.) Set the log level

By default, the passive identity agent logs at the INFO level. To optionally change the log level, open C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent\CiscoPassiveIdentityAgentService.exe.config in a text editor, save the file, and restart the Cisco Passive Identity Agent service.

Do not rename the logging service

Do not rename C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent\CiscoPassiveIdentityAgentService.exe.config; otherwise, the passive identity agent will stop generating log files. Do not remove or change the .exe.config file extension.

View log files

Passive identity agent log files are stored in plain text format in the agent's installation directory: C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent.

Use Notepad or another text editor to view these files. Log files rotate after reaching 10MB in size.

Use the Microsoft Active Directory event viewer

In the event you are not seeing user sessions in the Cisco Security Cloud Control, you can look on your Microsoft Active Directory server's event viewers for the following Kerberos-related events:

- 4770
- 4768

For general information about audit policy, see Audit Policy Recommendations on learn.microsoft.com.

For more information about Windows Group Policy Object settings, see Group Policy Objects on learn.microsoft.com.

Get an API Token for the Passive Identity Agent

This task discusses how to get the API token, which is used by the passive identity agent to authenticate with the cloud-delivered Firewall Management Center. It applies *only* to using the passive identity agent with the cloud-delivered Firewall Management Center.

Required role:

- Super Admin
- Admin

Procedure

Step 1	Log in to Cisco Security Cloud Control.	
Step 2	Click Administration > Firewall Management Center.	
Step 3	Check the box next to the cloud-delivered Firewall Management Center with which you want to use the passive identity agent.	
Step 4	In the right pane, click Passive Identity .	
Step 5	Copy the token to the clipboard.	

What to do next

Install the Passive Identity Agent Software, on page 18.

Install the Passive Identity Agent Software

This task discusses how to install the passive identity agent software. For a simple installation, you can install it on your Microsoft Active Directory (AD) domain controller; for other options, see Deploy the Passive Identity Agent, on page 2.

Before you begin

See Get an API Token for the Passive Identity Agent, on page 17.

Make sure your systems meet the following requirements:

- If you install it on a Windows Active Directory server, the server must run Windows Server 2008 or later.
- If you install it on a Windows client attached to the domain, the client must run Windows 8 or later.
- The system clock on all systems must be synchronized. We strongly recommend using the same NTP servers on all of them. This means:
 - The Security Cloud Control.

For more information, see Configure NTP Server.

- All Windows Active Directory servers and domain controllers.
- The machine on which the passive identity agent is installed.
- Security Cloud Control must run November 8, 2024 or later.
- You must enable Snort 3 on the Secure Firewall Threat Defense devices.

Procedure

Step 1 Download the passive identity agent from software.cisco.com.

Step 2	Log in as a member of the Administrators group to the machine on which to install the passive identity agent.	
Step 3	Double-click CiscoPassiveIdentityAgentInstaller-1.0.msi.	
Step 4	Click Next.	
Step 5	Choose a folder in which to install the passive identity agent and click Next.	
	The default installation folder is Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent .	
Step 6	Click Next.	
Step 7	Click Install.	
Step 8	When the installation is done, click Finish and optionally check the box to start the passive identity agent.	
Step 9	When the passive identity agent starts, click the On-Prem tab if you are using the agent with an on-premises Secure Firewall Management Center (physical or virtual) or click the Cloud tab if you are using the agent	

Step 10 In the Cisco Passive Agent dialog box, enter the following information:

with Security Cloud Control.

Item	Description
FMC FQDN / IP Address	Enter the fully qualified domain name or IP address of the Cloud-delivered Firewall Management Center on which you created the passive identity agent identity source.
	The passive identity agent supports IPv4 addresses and fully qualified domain names only. IPv6 addresses are not supported.
Token	Enter the API token you found in Get an API Token for the Passive Identity Agent, on page 17.
Agent	Click the list to locate the domain controller of the passive identity agent you created previously on the Cisco Security Cloud Control.

Step 11 Click the Agent list.

Step 12 From the list, click the name of the domain controller to monitor.

Step 13 Click Test.

The following figure shows an example.

Center	this agent communicates with	e or IP address of the Secure Management h.
Integrat On-P		
Primary	FMC FQDN / IP address	Port
192.0),2,100	: 443
FMC FO	QDN or IP address and Port of	of the FMC
Usema	me	Password
Pass	siveAgent	••••••
The cre	edentials for the connection (Primary or Secondary)
0	Agent	С
	Agent Standalone	С
	-	С
	Standalone	DCs (Domain Controllers)
	Standalone	DCs (Domain Controllers) forest.example.com
	Standalone Q. Search Agent Standalone	
Teste	Standalone Q. Search Agent Standalone You need to select Agent- configuration	forest.example.com
	Standalone Q. Search Agent Standalone You need to select Agent- configuration	forest,example.com

Step 14 Only if the test succeeds, click **Save**.

What to do next

- Specify users to control and other options using an identity policy as described in Create an Identity Policy.
- Associate the identity rule with an access control policy, which filters and optionally inspects traffic, as discussed in Associating Other Policies with Access Control.
- Deploy your identity and access control policies to managed devices as discussed in Deploy Configuration Changes.
- Monitor user activity .

Uninstall the Passive Identity Agent Software

This task discusses how to uninstall the passive identity agent software from your Microsoft AD servers.

Procedure

- **Step 1** Log in as an administrator to the machine on which the passive identity agent is installed.
- **Step 2** Search for Add or Remove Programs.
- Step 3 Click Cisco Passive Identity Agent.
- Step 4 Click Uninstall.
- **Step 5** You are required to confirm the uninstallation.

Monitor the Passive Identity Agent

The passive identity agent indicates whether or not it can communicate with the Cisco Security Cloud Control and other agents if it's configured as primary-secondary. You can view the status at **Integration** > **Other Integrations** > **Identity Sources**.

Deployments

A standalone passive identity agent is represented as follows.

A primary-secondary pair is represented as follows.

The following table explains the meaning of the indicators.

Object	Meaning
	Cloud-delivered Firewall Management Center
A	Standalone Passive Identity Agent
6	Active Directory domain controller
P	Primary agent
\$	Secondary agent

Status indicators and colors

The passive identity agent indicates status using lines (that indicate whether communication with the Cloud-delivered Firewall Management Center is active or standby) and colors (that indicate whether or not communication is successful).

The following table shows the meanings of lines and colors:

Object	Meaning
Solid line	The agent that is responsible for communicating with the Cloud-delivered Firewall Management Center.
Dashed line	Primary/secondary configuration only. The agent that is acting as the backup agent. In the event of a communication failure between the active (solid line) agent, this agent communicates with the Cloud-delivered Firewall Management Center.
Green	Agent communication is normal.
Amber	Agent has never successfully communicated with the Cloud-delivered Firewall Management Center. A newly created agent line is amber and remains so until configuration is complete.
Red	Communication is failing. To resolve the issues:
8	• Check sure the network connections between agents and the Cloud-delivered Firewall Management Center.
	• Make sure you have completed configuring the system (Microsoft AD server, domain controllers, and the Cloud-delivered Firewall Management Center).
	For more information, see How to Create a Passive Identity Agent Identity Source, on page 7.

Manage the Passive Identity Agent

Related Topics

Edit Passive Identity Agents, on page 23 Delete a Standalone Passive Identity Agent, on page 23 Delete Primary and Secondary Passive Identity Agents, on page 23 Uninstall the Passive Identity Agent Software, on page 20

Edit Passive Identity Agents

This task discusses how to edit passive identity agents you previously configured in the Cisco Security Cloud Control.

Procedure

Step 1	Log in to the Cisco Security Cloud Control.
Step 2	Click Objects .
Step 3	Integration > Other Integrations > Identity Sources
Step 4	Click Edit () next to the agent to edit.
Step 5	Make the desired changes.
Step 6	Click Save.

Delete a Standalone Passive Identity Agent

This task discusses how to delete a standalone passive identity agent.

Procedure

Step 1	Log in to the Cisco Security Cloud Control.
Step 2	Click Objects .
Step 3	Integration > Other Integrations > Identity Sources
Step 4	Click Edit (🖍) next to the agent to delete.
Step 5	Click Delete .
Step 6	You are required to confirm the action.

Delete Primary and Secondary Passive Identity Agents

This task discusses how to delete primary and secondary passive identity agents. You must delete a secondary agent before you can delete a primary agent.

Procedure

Step 1	Log in to the Cisco Security Cloud Control.
Step 2	Click Objects .
Step 3	Integration > Other Integrations > Identity Sources

Step 4	Click Passive Identity Agent.
Step 5	Click Edit (
Step 6	Click Delete .
Step 7	You are required to confirm the action.
Step 8	If you wish to delete a primary agent, first delete all secondary agents.

Troubleshoot the Passive Identity Agent

This topic discusses how you can troubleshoot the passive identity agent software on your Windows AD domain controller or directory server.

(Optional.) Set the log level

By default, the passive identity agent logs at the INFO level. To optionally change the log level, open C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent\CiscoPassiveIdentityAgentService.exe.config in a text editor, save the file, and restart the Cisco Passive Identity Agent service.

Do not rename the logging service

Do not rename C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent\CiscoPassiveIdentityAgentService.exe.config; otherwise, the passive identity agent will stop generating log files. Do not remove or change the .exe.config file extension.

View log files

Passive identity agent log files are stored in plain text format in the agent's installation directory: C:\Program Files\Program Files (x86)\Cisco\Cisco Passive Identity Agent.

Use Notepad or another text editor to view these files. Log files rotate after reaching 10MB in size.

Use the Microsoft Active Directory event viewer

In the event you are not seeing user sessions in the Cisco Security Cloud Control, you can look on your Microsoft Active Directory server's event viewers for the following Kerberos-related events:

- 4770
- 4768

For general information about audit policy, see Audit Policy Recommendations on learn.microsoft.com.

For more information about Windows Group Policy Object settings, see Group Policy Objects on learn.microsoft.com.

Security Requirements for the Passive Identity Agent

To safeguard the system, you should install the passive identity agent on a protected internal network. Although the passive identity agent is configured to have only the necessary services and ports available, you must make sure that attacks cannot reach it.

If the passive identity agent and the Security Cloud Control reside on the same network, you can connect the Security Cloud Control to the same protected internal network as the passive identity agent.

Regardless of how you deploy your appliances, inter-system communication is encrypted. However, you must still take steps to ensure that communications between appliances cannot be interrupted, blocked, or tampered with; for example, with a distributed denial of service (DDoS) or man-in-the-middle attack.

Internet Access Requirements for the Passive Identity Agent

By default, the passive identity agent is configured to communicate with the Firepower System over the internet using HTTPS on port 443/tcp (HTTPS). If you do not want the passive identity agent to have direct access to the internet, you can configure a proxy server.

If your Cloud-delivered Firewall Management Center cannot communicate with the machine on which the passive identity agent is installed, you must use a proxy with the HTTPS protocol enabled.

The way you do this is up to you; for example, you might have a commercial proxy and use a Windows system proxy with HTTPS enabled to communicate with it.

The following information informs you of the ports the passive identity agent use to communicate with each other, with the Security Cloud Control, and with Microsoft Active Directory.

Port	Reason
443	Communicate with the Security Cloud Control.
135	Communicate with Microsoft Active Directory using the MSRPC protocol.
9095	Communicate with each other using the UDP protocol.

History for the Passive Identity Agent

Table 2: History for the Passive Identity Agent

Feature	Minimum Management Center	Minimum Threat Defense	Details
Passive Identity Agent	November 8, 2024	7.6	 This feature is introduced. The passive identity agent identity source sends session data from Microsoft Active Directory (AD) to the management center. Passive identity agent software is supported on: Microsoft AD server (Windows Server 2008 or later) Microsoft AD domain controller (Windows Server 2008 or later) Any client connected to the domain you want to monitor (Windows 8 or later) See: User Control With the Passive Identity Agent.