



When you configure and use authentication, you get a more in-depth assessment of your hosts, the most accurate results and fewer false positives. This [article](#) contains the list of supported authentication technologies. Click [anywhere](#) to continue.

Qualys Cloud Platform

VMDR

Dashboard Vulnerabilities Prioritization **Scans** Reports Remediation Assets KnowledgeBase Users

Scans Maps Schedules Appliances Option Profiles **Authentication** Search Lists Setup

Search...

Overview

Credentials Breakdown: All 6 Unused 6 Passing 0 Failing 0 Problematic 0 In Vault 0

Network	Type	Title	# IPs	Modified	Owner	Template Reco	Details
Global Default Net...	SNMP	AR - SNMPv2 Corporate	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default Net...	SNMP	AR - SNMPv2 Public	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default Net...	SNMP	AR - SNMPv3 Corporate	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default Net...	Windows	AR - Windows DEV	0	06/27/2023	Marcus Burrows - Qualys T...	Details	
Global Default Net...	Windows	AR - Windows PROD	0	06/22/2023	Marcus Burrows - Qualys T...	Details	



In this lab, you will create a Unix Authentication Record. Click on the [New button](#) (towards the bottom of the page), to continue.

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Dashboard Vulnerabilities Prioritization **Scans** Reports Remediation Assets KnowledgeBase Users

Scans Scans Maps Schedules Appliances Option Profiles Authentication Search Lists Setup

Search...

Overview [Hide Graph](#)

Credentials Breakdown: All **6** Unused **6** Passing **0** Failing **0** Problematic **0** In Vault **0**

Actions (0) New

Network	Type	Title	IPs	# IPs	Modified	Owner	Template Reco Details
<input type="checkbox"/> Global Default Net...	SNMP	AR - SNMPv2 Corporate		0	06/22/2023	Marcus Burrows - Qualys T...	Details
<input type="checkbox"/> Global Default Net...	SNMP	AR - SNMPv2 Public		0	06/22/2023	Marcus Burrows - Qualys T...	Details
<input type="checkbox"/> Global Default Net...	SNMP	AR - SNMPv3 Corporate		0	06/22/2023	Marcus Burrows - Qualys T...	Details
<input type="checkbox"/> Global Default Net...	Windows	AR - Windows DEV		0	06/27/2023	Marcus Burrows - Qualys T...	Details
<input type="checkbox"/> Global Default Net...	Windows	AR - Windows PROD		0	06/22/2023	Marcus Burrows - Qualys T...	Details



Click **Unix**

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Dashboard Vulnerabilities Prioritization **Scans** Reports Remediation Assets KnowledgeBase Users

Scans Scans Maps Schedules Appliances Option Profiles **Authentication** Search Lists Setup

Search...

Overview Hide Graph

Credentials Breakdown: All **6** Unused **6** Passing **0** Failing **0** Problematic **0** In Vault **0**

Actions (0) New

Network

- Operating Systems...
 - Unix
 - Windows
- Network and Security...
- Applications...
- Databases...
- VMware...
- System Record Templates...
- Authentication Vaults
- Download...

	IPs	Modified	Owner	Template Reco	Details
Global Default	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default	0	06/22/2023	Marcus Burrows - Qualys T...	Details	
Global Default	0	06/27/2023	Marcus Burrows - Qualys T...	Details	
Global Default	0	06/22/2023	Marcus Burrows - Qualys T...	Details	



Here, you give the Record a meaningful name. Type **Linux Authentication** and press Enter.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Record Title

Title*:

Network: Global Default Network

Cancel

Create



Next, click [Login Credentials](#)

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Record Title

Title*:

Network:

Cancel

Create



For the User Name, type **Qualys** and then press Enter

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >
Login Credentials >
Kerberos / GSSAPI >
Private Keys / Certificates >
Root Delegation >
Policy Compliance Ports >
Agentless Tracking >
IPs >
Comments >

Authentication

Provide login credentials to use for authenticated scanning. You have the option to get the login password from a vault available in your account.

Username*:

Get password from vault ☐ NO

☐ Skip Password

Password:

☐ Clear Text Password

Confirm Password*:

Target Type*:

Cancel

Create



For the password, type **Qualys123!** and then press Enter.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Authentication

Provide login credentials to use for authenticated scanning. You have the option to get the login password from a vault available in your account.

Username*:
Qualys

Get password from vault ☐ NO

☐ Skip Password

Password*:

☐ Clear Text Password

Confirm Password*:

Target Type*:
Auto (default) ▼

Cancel

Create

 To confirm the password, again type **Qualys123!** and press Enter.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Authentication

Provide login credentials to use for authenticated scanning. You have the option to get the login password from a vault available in your account.

Username*: Qualys

Get password from vault ☒ NO

☐ Skip Password

Password:

☐ Clear Text Password

Confirm Password*:

Target Type*: Auto (default) ▼

Cancel

Create



Click on the [Kerberos tab](#).

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Authentication

Provide login credentials to use for authenticated scanning. You have the option to get the login password from a vault available in your account.

Username*: Qualys

Get password from vault ☒ NO

☐ Skip Password

Password:

☐ Clear Text Password

Confirm Password*:

Target Type*: Auto (default) ▼

Cancel

Create



You can specify Kerberos authentication details and perform authenticated scans on Unix systems that have Kerberos enabled. For now, click the [Private Keys / Certificates](#) tab to continue.

New Unix Record

Turn help tips: On | **Off** | [Launch Help](#)

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Kerberos / GSSAPI

Provide Kerberos authentication details.

Use Kerberos: ☐ NO

Cancel

Create



You can use multiple private keys and/or certificates, for authentication. Private key authentication is supported for SSH2 only. For now, click the [Root Delegation tab](#) to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >
Login Credentials >
Kerberos / GSSAPI >
Private Keys / Certificates >
Root Delegation >
Policy Compliance Ports >
Agentless Tracking >
IPs >
Comments >

Private Keys / Certificates

Add private keys and/or certificates to be used for authentication - as many as you'd like. Any combination of private keys (RSA, DSA, ECDSA, ED25519) and certificate types (X.509, OpenSSH) can be added.
Add Private Key / Certificate

No items selected Remove All

Private Key T...	Private Key ...	Vault Userna...	Passphrase ...	Certificate Ty...
------------------	-----------------	-----------------	----------------	-------------------

Cancel Create

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By enabling root delegation you can provide a lower-privileged user account in the record and still perform scan tests with the elevated privileges of the superuser (root). Click [Add Root Delegation](#) to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation

Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required.

Add Root Delegation

No items selected Remove All

Root Delegation*	Vault Username	Vault Type
------------------	----------------	------------

Cancel

Create

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There are different types of Root Delegation to choose from. Click on the [drop-down arrow](#) to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation

Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required.

Add Root Delegation

Remove All

Root Delegation

Set root delegation for your Unix record

Root Delegation*:

Select a root delegation... ▼

Get password from vault:

NO

Password:

Close

Save

Cancel

Create



Sudo is a common method of root delegation to use. To find out more, see this [article](#). Click [Sudo](#) to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation

Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required.

Add Root Delegation

Remove All

Root Delegation

Set root delegation for your Unix record

Root Delegation*:

Get password from vault:

Password:

Sudo

PowerBroker

Pimsu

Close

Save

Cancel

Create



For the password, type **Qualys123!** and press Enter

New Unix Record Turn help tips: On | Off Launch Help

Record Title > **Root Delegation**

Login Credentials > Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required. Add Root Delegation

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation > Remove All

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation ✕

Set root delegation for your Unix record

Root Delegation*:

Get password from vault: ☐

Password:

Close Save

Cancel Create



Click **Save**

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation

Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required.

Add Root Delegation

Remove All

Root Delegation

Set root delegation for your Unix record

Root Delegation*: Sudo

Get password from vault: NO

Password:

Close Save

Cancel Create



Click [Agentless Tracking](#)

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Root Delegation

Add one or more root delegation tools (Sudo, Pimsu, PowerBroker) to be used for authentication. This allows the login account to perform assessment tests with the elevated privileges required.

Add Root Delegation

1 item selected Remove All

Root Delegation*	Vault Username	Vault Type	
Sudo	N/A	N/A	Edit Remove

Cancel

Create



With Agentless Tracking Identifier, you can track hosts by host ID, instead of relying on the IP address to identify the host. Click the [checkbox](#) next to "Enable agentless tracking" to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >
Login Credentials >
Kerberos / GSSAPI >
Private Keys / Certificates >
Root Delegation >
Policy Compliance Ports >
Agentless Tracking >
IPs >
Comments >

Agentless Tracking

With Agentless Tracking you can track hosts by host ID, instead of relying on the IP address (or DNS name or NetBIOS name) to identify the host. When enabled, we'll tag target Windows and/or Unix hosts with a unique host ID during the scanning process and report on the host ID for the current and future scans of the same host.

☐ Enable agentless tracking

Host ID Path:

example: /etc

Cancel

Create



As an option, you can specify where the host ID will be saved. The default is in the /etc directory. Click the **IPs** tab to continue.

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Agentless Tracking

With Agentless Tracking you can track hosts by host ID, instead of relying on the IP address (or DNS name or NetBIOS name) to identify the host. When enabled, we'll tag target Windows and/or Unix hosts with a unique host ID during the scanning process and report on the host ID for the current and future scans of the same host.

☒ Enable agentless tracking

Host ID Path:

/etc

example: /etc

Cancel

Create

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Click [Select IPs / Ranges](#)

New Unix Record

Turn help tips: On | **Off** | [Launch Help](#)

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

IPs

Add IPs to your Unix record.

Enter or Select IPs/Ranges:

[Select IPs/Ranges](#) | [Select Asset Group](#) | [Remove](#) | [Clear](#)

☐ Display each IP/Range on new line

Cancel

Create

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We will choose only one host to use this authentication record. Other IP addresses and IP ranges can be added in the future if required. Click the **checkbox** next to 172.17.1.1

New Unix Record Turn help tips: On | Off Launch Help

Record Title > **IPs**

Login Credentials > Add IPs to your Unix record.

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

Select IP Addresses

Search: Search...

1 - 4 of 4

<input type="checkbox"/>	IP/Range
<input type="checkbox"/>	10.115.117.98
<input type="checkbox"/>	10.115.117.130
<input type="checkbox"/>	64.41.200.243-64.41.200.250
<input checked="" type="checkbox"/>	172.17.1.1

Cancel Select

Cancel Create



Click [Select](#)

New Unix Record

Turn help tips: On | Off Launch Help

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

IPs

Add IPs to your Unix record.

Select IP Addresses

Search: Search...

1 - 4 of 4

IP/Range

☐ 10.115.117.98

☐ 10.115.117.130

☐ 64.41.200.243-64.41.200.250

☒ 172.17.1.1

Cancel

Select

Asset Group | Remove | Clear

Cancel

Create



Click [Create](#)

New Unix Record

Turn help tips: On | **Off** | [Launch Help](#)

Record Title >

Login Credentials >

Kerberos / GSSAPI >

Private Keys / Certificates >

Root Delegation >

Policy Compliance Ports >

Agentless Tracking >

IPs >

Comments >

IPs

Add IPs to your Unix record.

Enter or Select IPs/Ranges: [Select IPs/Ranges](#) | [Select Asset Group](#) | [Remove](#) | [Clear](#)

172.17.1.1

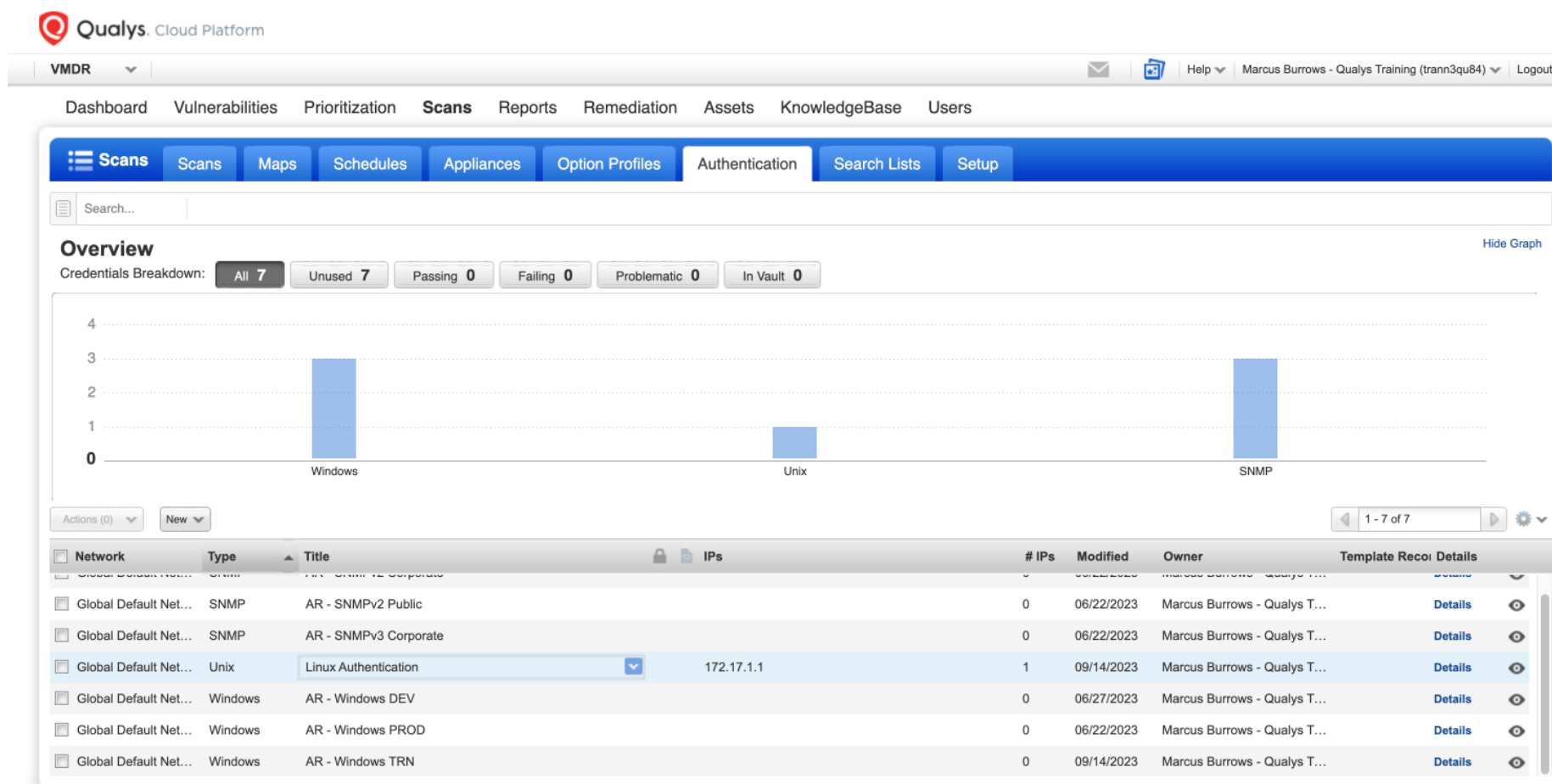
☐ Display each IP/Range on new line

Cancel

Create



The Unix Authentication Record has been created. Further information about Unix Authentication can be found in this [article](#). That's it, you're done! You may now close this browser tab.





Scan to go to the interactive player