

Tenable and Microsoft Azure Integration Guide

Last Revised: September 26, 2025

Table of Contents

| | |
|--|----|
| Welcome to Tenable for Microsoft Azure | 3 |
| Install the Tenable App for Microsoft Sentinel | 4 |
| Configure the Tenable Data Collector App | 16 |
| Configure the Tenable Identity Exposure Syslog Collector App | 27 |
| Audit Microsoft Azure | 32 |
| Configure Azure for a Compliance Audit | 32 |
| Configure Azure for Microsoft 365 and ScubaGear Audits | 40 |
| Audit Microsoft Azure in Tenable Vulnerability Management | 43 |
| Audit Microsoft Azure in Tenable Nessus | 46 |
| Tenable Vulnerability Management | 50 |
| Integration Requirements | 50 |
| Create a Scan | 50 |
| Nessus Agent Scan of Azure Virtual Instances | 51 |
| Deploy a Nessus Agent | 52 |
| Tenable Web App Scanning | 53 |
| Provision Tenable Core Web Application Scanner (BYOL) | 53 |
| Web Application Scan | 59 |
| Deploy a Tenable Nessus Scanner | 60 |
| Provision Tenable Core Nessus (BYOL) in Azure Marketplace | 60 |
| Install Nessus on an Azure Virtual Machine | 66 |
| Deploy One-Click Tenable Agent | 66 |
| About Tenable | 73 |

Welcome to Tenable for Microsoft Azure

Tenable for Microsoft Azure offers security visibility, auditing, and system hardening that allows you to reduce the attack surface and detect malware across your Microsoft Azure deployments.

Additional benefits of integrating Tenable with Microsoft Azure include:

- Improved ROI due to the removal of manual verification for misconfigurations on cloud virtual machines
- Reduced security exposure through the prioritization of vulnerable machines and compromised systems

For information about integrating different Tenable products in a Microsoft Azure cloud environment, see the following:

- [Audit Microsoft Azure](#)
- [Tenable Core Nessus \(BYOL\)](#)
- [Tenable Core WAS \(BYOL\)](#)
- [Nessus Agent Scans of Microsoft Azure Cloud Instances](#)

Note: For information on configuring Microsoft Azure Connectors with Tenable Vulnerability Management, see the [Microsoft Azure Connector](#) documentation in the *Tenable Vulnerability Management User Guide*.

Install the Tenable App for Microsoft Sentinel

Required User Role: Basic User

Note: The Tenable integration with Microsoft Sentinel works with a **Basic User** if that user is assigned **Can View** permissions on the assets they are to export, along with **Can Use** permissions on tags the assets are assigned. Without the **Can Use** tag permissions, the assets return undefined or the integration fails to export vulnerabilities if a tag filter is used. For more information on Tenable Vulnerability Management permissions and user roles, refer to [Permissions](#) in the *Tenable Developer Portal*.

The Tenable App for Microsoft Sentinel combines Tenable's Cyber Exposure insights with Sentinel's collection, detection, and investigation capabilities. This integration supports Tenable Vulnerability Management and exports asset and vulnerability data from Tenable Vulnerability Management directly to Microsoft Sentinel.

Microsoft Sentinel is a scalable, cloud-native, security information event management (SIEM), and security orchestration automated response (SOAR) solution. For more information about Microsoft Sentinel, see the [Microsoft documentation](#).

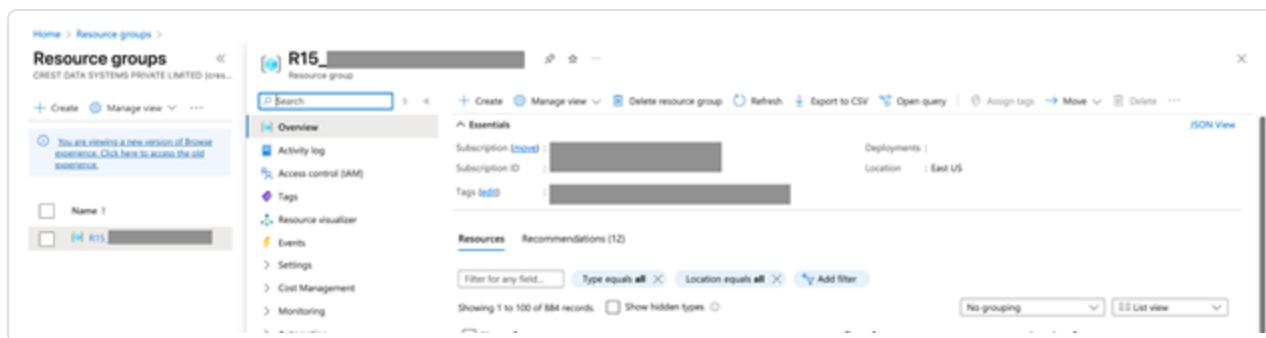
Before you begin:

- You must have a Logs Analytics Workspace with Microsoft Sentinel enabled in your Azure subscription.
- For assistance with launching Microsoft Sentinel, see the [Microsoft Sentinel quick start guide](#).
- Resource Group (This requires Microsoft Sentinel Contributor Role at Subscription Level.)

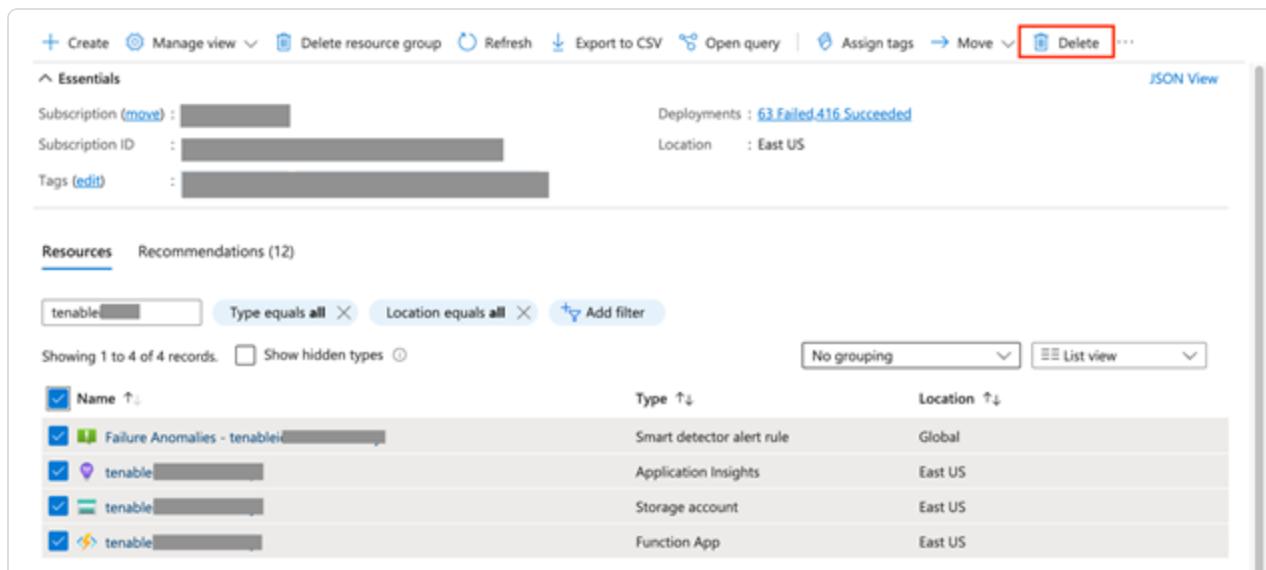
Caution: Tenable recommends you deploy the latest version of the Tenable App (v3.1.0) in a new Microsoft Sentinel workspace rather than upgrading the existing one. Version 3.1.0 supports the [Log Ingestion API](#), which requires the use of Data Collection Rules (DCR) and Data Collection Endpoints (DCE). Since table names are tied to specific DCRs, the tables used in the previous app version cannot be reused.

(If upgrading to v3.1.0) Delete the existing Function App and associated resources

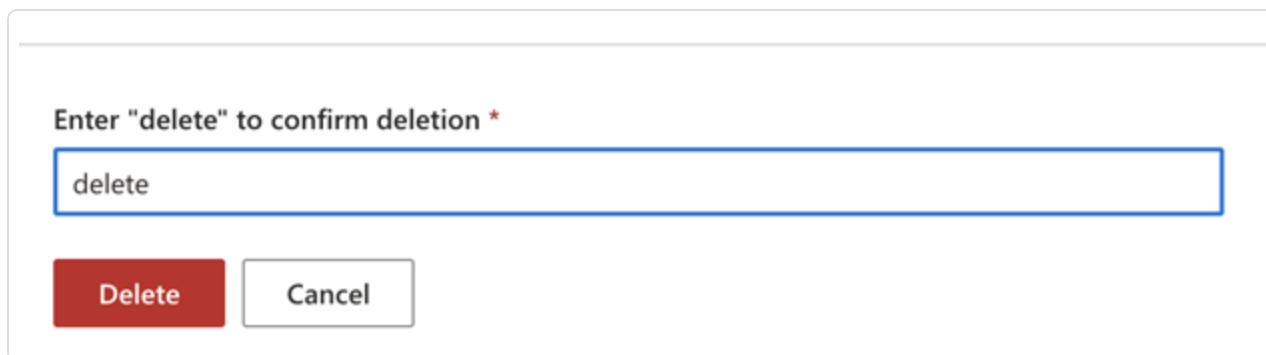
1. In the Azure portal, navigate to **Resource Group** and select your resource group.



2. In the **Resources** section search for the currently running Tenable function app name and select all the resources for that function app.



3. After clicking on the delete button, the portal will ask for confirmation. Write delete in the textbox and click on the delete button.



Note: For more information, refer to the [Microsoft documentation](#).

Assign the role of Microsoft Sentinel Contributor to an application in Microsoft Entra ID

1. In the Azure portal, navigate to **Resource Group** and select your resource group.
2. In the left menu, click **Access control (IAM)**.
3. Click **Add**.
4. Select **Add role assignment**.
5. Select **Microsoft Sentinel Contributor**.
6. Click **Next**.
7. In **Assign access to**, select either **User**, **Group**, or **Service Principal**.
8. Click **Add members**.
9. Type the name of the application you created, and select it.
10. Click **Review + assign**.

A new window appears.

11. In the new window, again click **Review + assign**.

Note: For more information, refer to the [Microsoft documentation](#).

Create the Log Analytics Workspace

1. Navigate to Microsoft Sentinel within the Microsoft Azure Portal and click **Create Microsoft Sentinel**.

The workspace homepage appears:



Home >
Microsoft Sentinel —
CREST DATA SYSTEMS PRIVATE LIMITED (crestdata-l)

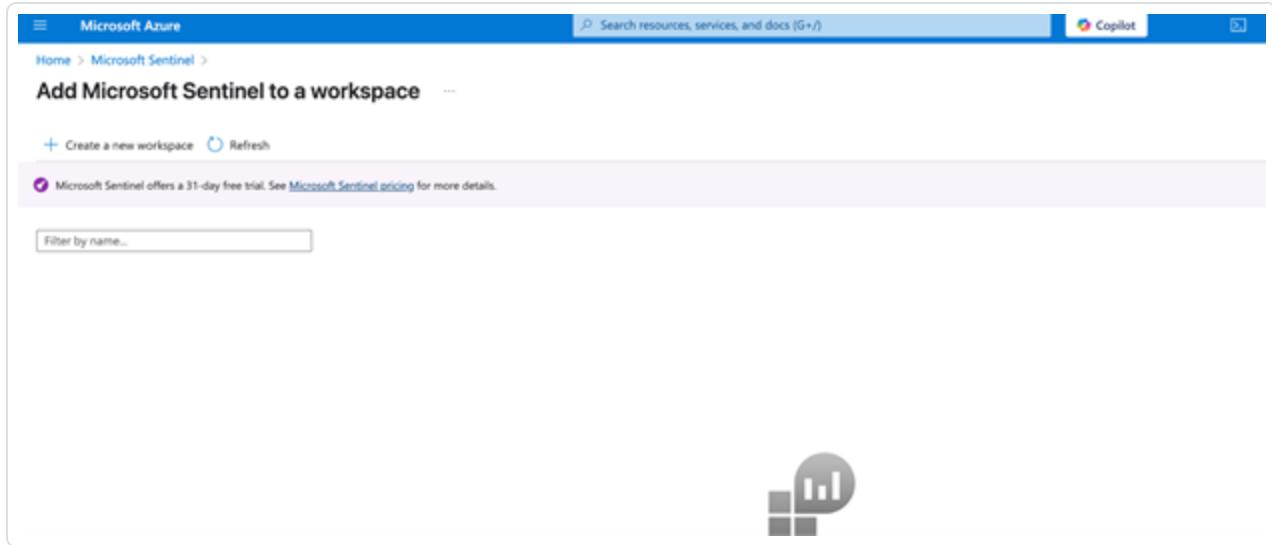
+ Create Manage view Refresh Export to CSV Open query View incidents Group by none

You are viewing a new version of Browse experience. Some features may be missing. Click here to access the old experience.

Filter for any field: Subscription equals all Resource Group equals all Location equals all Add filter

Name Resource Group Location Subscription Directory

2. Add a workspace for Microsoft Sentinel. Click **Create a new workspace**.



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

Home > Microsoft Sentinel > Add Microsoft Sentinel to a workspace

+ Create a new workspace Refresh

Microsoft Sentinel offers a 31-day free trial. See [Microsoft Sentinel pricing](#) for more details.

Filter by name...

3. To create the Log Analytics workspace, you must first create a new Resource Group. Click **Create new** under Resource Group Connector.

Home > Microsoft Sentinel > Add Microsoft Sentinel to a workspace >

Create Log Analytics workspace

Basics Tags Review + Create

Basics

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

Name * Region *

[Review + Create](#) [« Previous](#) [Next : Tags >](#)

4. Input a **Name** for the instance detail and select the appropriate Azure **Region** from the drop-down menu.

Click **Review + Create**.

The settings are finalized and the page updates:

Create Log Analytics workspace

 Validation passed

Basics Tags Review + Create



Log Analytics workspace

by Microsoft

Basics

Subscription CDS_R15_Sub1

Resource group 

Name Tenable

Region East US

Pricing

Pricing tier Pay-as-you-go (Per GB 2018)

The cost of your workspace depends on the volume of data ingested and how long it is retained. Regional pricing details are available on the [Azure Monitor pricing page](#). You can change to a different pricing tier after the workspace is created. [Learn more](#) about Log Analytics pricing models.

Tags

None

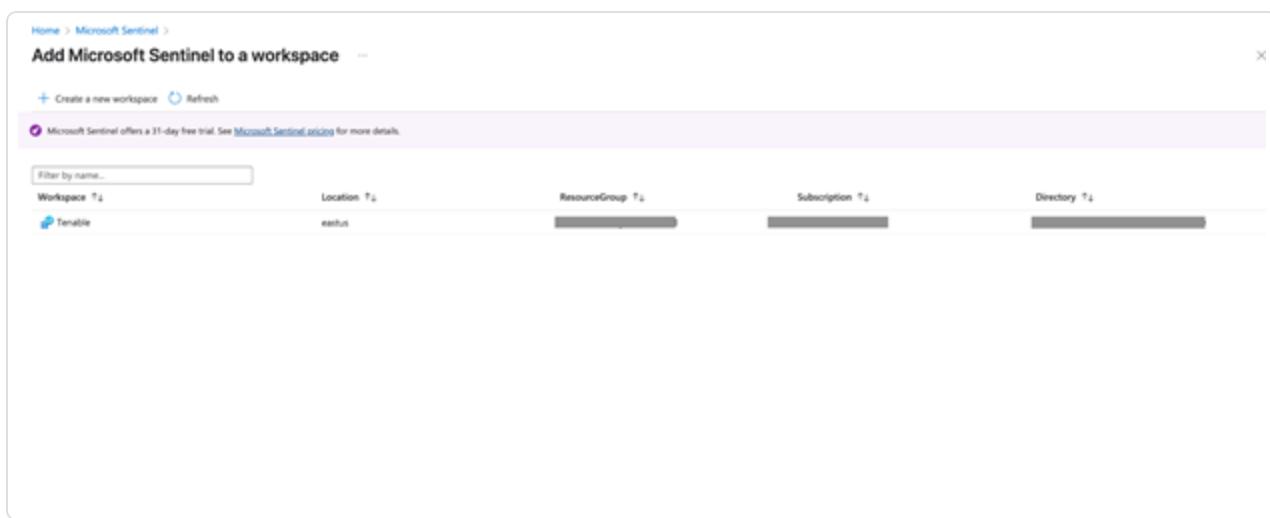
 Create

 « Previous

[Download a template for automation](#)

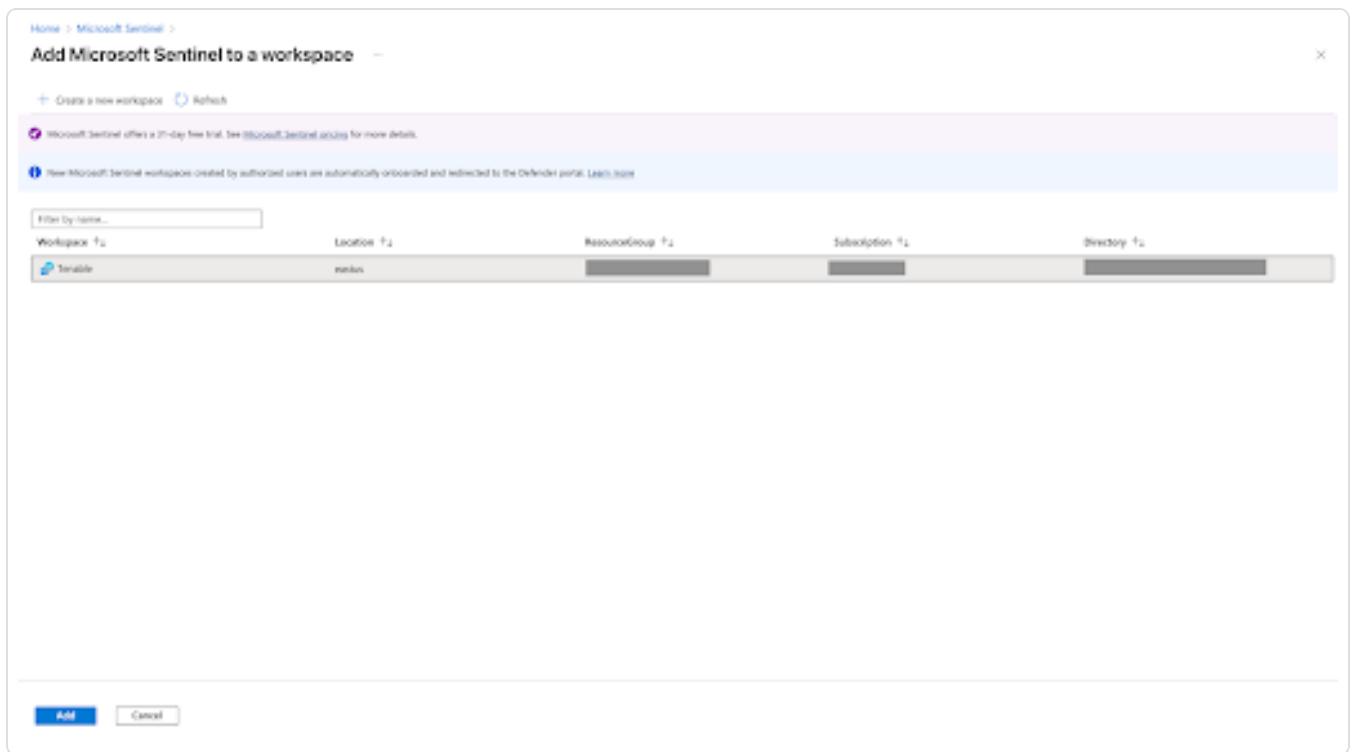
5. Click **Create**.

The workspace homepage appears with your new Microsoft Sentinel workspace:



The Log Analytics Workplace for Microsoft Sentinel has been created.

6. In the workspace, click **Add** to add Microsoft Sentinel to a workspace.

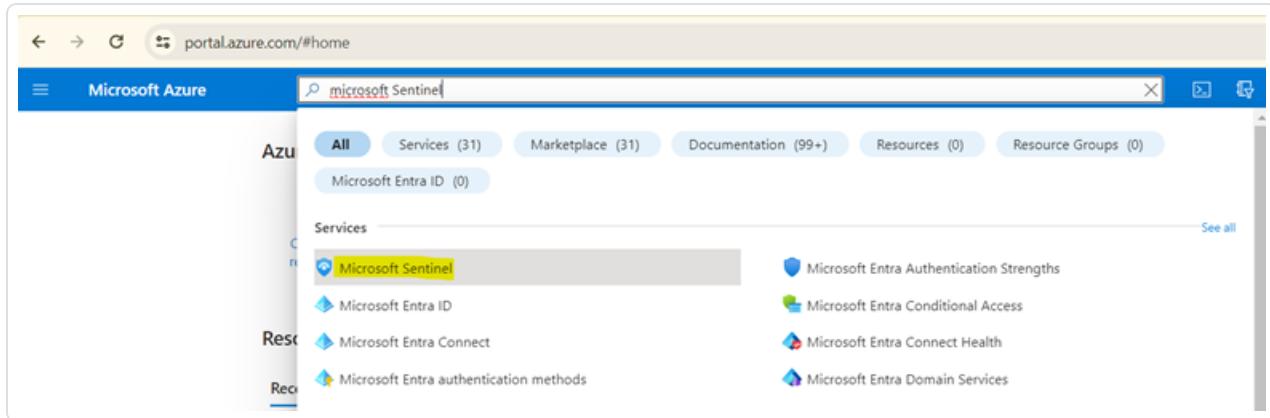


Note: Navigate to Log Analytics workspace > Network Isolation and ensure that the two **Virtual network access configuration settings** (required to accept data ingestion and queries from public networks not connected through a Private Link Scope) are set to Yes.

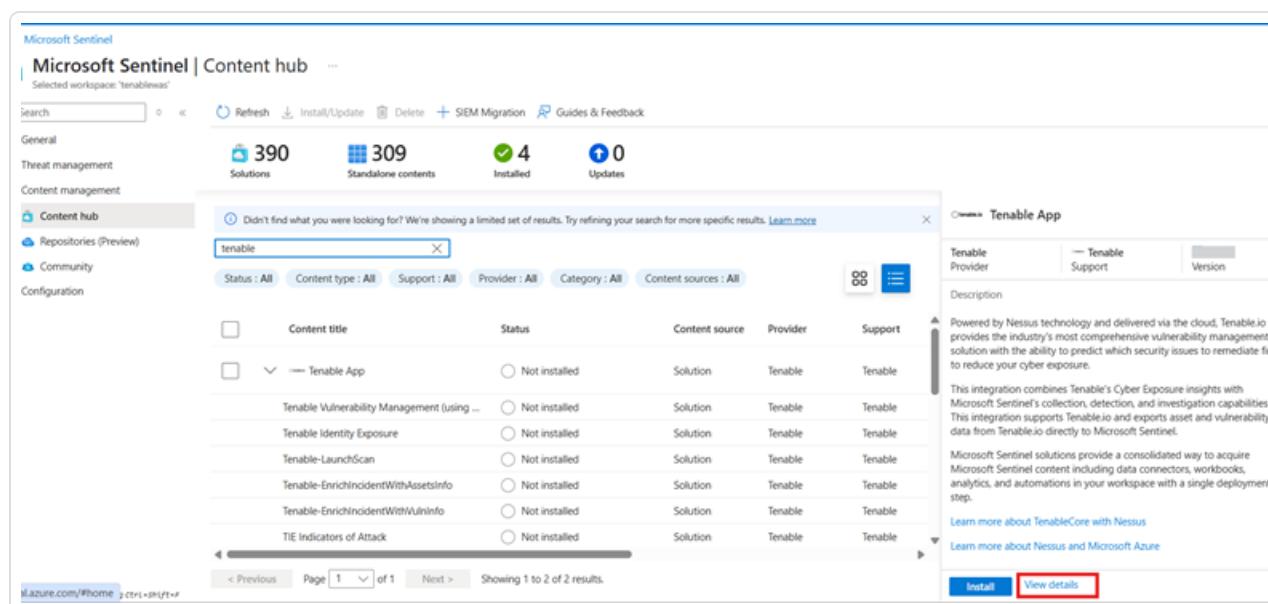
Add the Tenable App to Microsoft Sentinel

Caution: Tenable recommends you deploy the latest version of the Tenable App (v3.1.0) in a new Microsoft Sentinel workspace rather than upgrading the existing one. Version 3.1.0 supports the [Log Ingestion API](#), which requires the use of Data Collection Rules (DCR) and Data Collection Endpoints (DCE). Since table names are tied to specific DCRs, the tables used in the previous app version cannot be reused. Follow the steps in the *Delete the existing Function App and associated resources* section before proceeding.

1. Login to the [Microsoft Azure portal](#) and search for "Microsoft Sentinel" in the search box.



2. Select **Microsoft Sentinel**.
3. Select your workspace and navigate to **Content Hub**.
4. In the search box, type "Tenable App."
5. Select **Tenable App**.
6. Click **View Details**.



Microsoft Sentinel | Content hub

Selected workspace: 'Tenablews'

search < Refresh Install/Update Delete + SIEM Migration Guides & Feedback

General Threat management Content management Configuration

Content hub

Repositories (Preview) Community

390 Solutions 309 Standalone contents 4 Installed 0 Updates

Didn't find what you were looking for? We're showing a limited set of results. Try refining your search for more specific results. [Learn more](#)

tenable

Status : All Content type : All Support : All Provider : All Category : All Content sources : All

| Content title | Status | Content source | Provider | Support |
|--|---------------|----------------|----------|---------|
| Tenable Vulnerability Management (using ...) | Not installed | Solution | Tenable | Tenable |

TIE Indicators of Attack

< Previous Page 1 of 1 Next > Showing 1 to 2 of 2 results.

Tenable App

Tenable Provider Tenable Support Version

Description

Powered by Nessus technology and delivered via the cloud, Tenable.io provides the industry's most comprehensive vulnerability management solution with the ability to predict which security issues to remediate to reduce your cyber exposure.

This integration combines Tenable's Cyber Exposure insights with Microsoft Sentinel's collection, detection, and investigation capabilities. This integration supports Tenable.io and exports asset and vulnerability data from Tenable.io directly to Microsoft Sentinel.

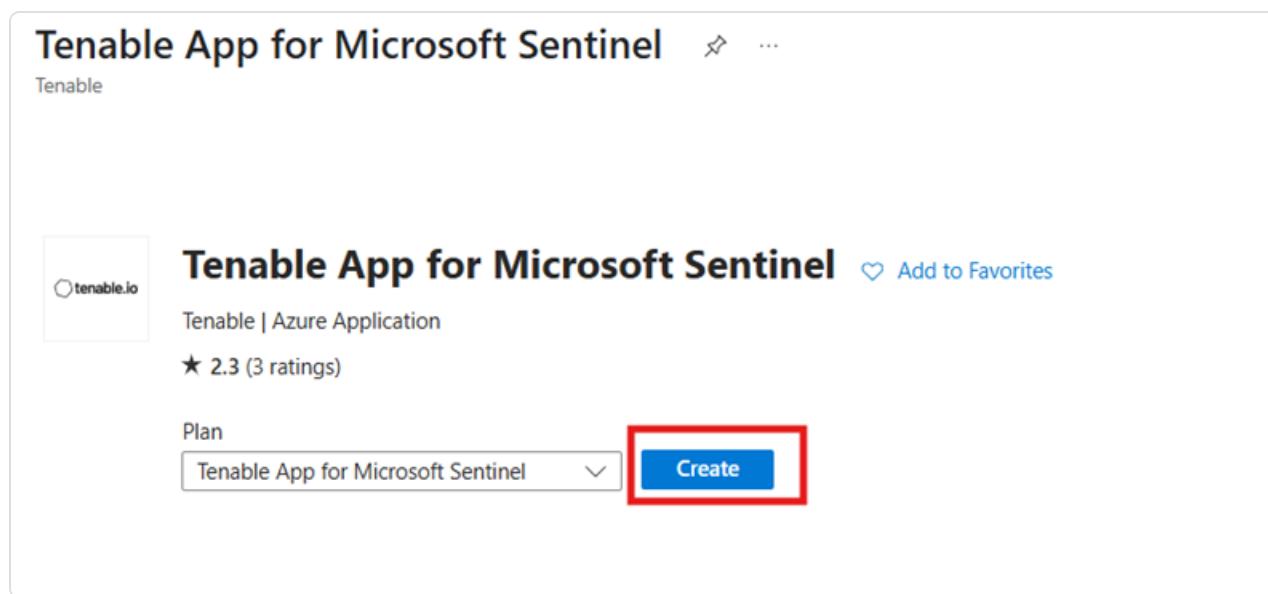
Microsoft Sentinel solutions provide a consolidated way to acquire Microsoft Sentinel content including data connectors, workbooks, analytics, and automations in your workspace with a single deployment step.

Learn more about TenableCore with Nessus

Learn more about Nessus and Microsoft Azure

Install View details

A confirmation screen appears:



Tenable App for Microsoft Sentinel

Tenable

Tenable.io

Tenable App for Microsoft Sentinel

Add to Favorites

Tenable | Azure Application

2.3 (3 ratings)

Plan

Tenable App for Microsoft Sentinel

Create

7. Fill in the details of the **Workspace** and **Resource group**.

Create Tenable App for Microsoft Sentinel

The [Tenable App](#) solution provides the capability to ingest asset and vulnerability data into Microsoft Sentinel through the REST API from the Tenable platform (Managed in the cloud). Refer to [API documentation](#) for more information.

Underlying Microsoft Technologies used:

This solution takes a dependency on the following technologies, and some of these dependencies either may be in [Preview](#) state or might result in additional ingestion or operational costs:

- a. [Azure Monitor HTTP Data Collector API](#)
- b. [Azure Functions](#)

Data Connectors: 2, **Parsers:** 3, **Workbooks:** 2, **Analytic Rules:** 12, **Custom Azure Logic Apps Connectors:** 2, **Playbooks:** 3

[Learn more about Microsoft Sentinel](#) | [Learn more about Solutions](#)

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

Workspace * ⓘ

[Previous](#)

[Next](#)

Review + create

8. Click **Review + Create**.

9. Click **Create**.

Basics Data Connectors Workbooks Analytics Playbooks **Review + create**

[View automation template](#)

Price

Tenable App for Microsoft Sentinel
by Tenable
[Terms of use](#) | [Privacy policy](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Name

Preferred e-mail address

Preferred phone number

[Previous](#) [Next](#) **Create**

The integration installs the solution into the Microsoft Sentinel workspace.

Home > **tenable.tenable-sentinel-integration-20250526115119 | Overview** ...

 Deployment

Search x « » Delete Cancel Redeploy Download Refresh

Overview ✓ Your deployment is complete

Deployment name : tenable.tenable-sentinel-integration-20250526115119
Subscription : CDS_R15_Sub1
Resource group :

Start time : 26/05/2025, 11:56:44
Correlation ID : b38a45e1-0821-4191-84fd-d2b05fb32712

Deployment details Next steps

Go to resource group

Give feedback Tell us about your experience with deployment

10. In Microsoft Sentinel (the workspace you just created) > Content Hub, search for the solution that you have installed and click Manage.

Microsoft Sentinel | Content hub

Selected workspace: 'tenablewas'

Search: tenable

390 Solutions | 309 Standalone contents | 5 Installed | 0 Updates

Content title Status Content source

| Content title | Status | Content source |
|--|-----------|----------------|
| — Tenable App | Installed | Solution |
| Tenable Vulnerability Management (using ...) | Installed | Solution |
| Tenable Identity Exposure | Installed | Solution |
| Tenable-LaunchScan | Installed | Solution |
| Tenable-EnrichIncidentWithAssetsInfo | Installed | Solution |

Manage

The list of components associated with this integration appears:

Tenable App

22 Installed content items | 16 Configuration needed

Tenable App

| Tenable Provider | Tenable Support | Version |
|--|-----------------|---------|
| Description | | |
| Powered by Nessus technology and delivered via the cloud, Tenable.io provides the industry's most comprehensive vulnerability management solution with the ability to predict which security issues to remediate first to reduce your cyber exposure. | | |
| This integration combines Tenable's Cyber Exposure insights with Microsoft Sentinel's collection, detection, and investigation capabilities. This integration supports Tenable.io and exports asset and vulnerability data from Tenable.io directly to Microsoft Sentinel. | | |
| Microsoft Sentinel solutions provide a consolidated way to acquire Microsoft Sentinel content including data connectors, workbooks, analytics, and automations in your workspace with a single deployment step. | | |
| Learn more about TenableCore with Nessus | | |
| Learn more about Nessus and Microsoft Azure | | |

Content name Create... Conte... Version

| Content name | Create... | Conte... | Version |
|--|-----------|------------|---------|
| Tenable Identity Exposure | 1 items | Data c... | 1.0.0 |
| Tenable Vulnerability Management (using Azure Functions) | 1 items | Data c... | 1.0.0 |
| Parser for afad_parser | 1 items | Parser | 1.0.0 |
| Parser for TenableVMAssets | 1 items | Parser | 1.0.0 |
| Parser for TenableVMVulnerabilities | 1 items | Parser | 1.0.0 |
| TIE Active Directory attacks pathways | -- | Analyti... | 1.0.1 |
| TIE DCShadow | -- | Analyti... | 1.0.1 |
| TIE DCSync | -- | Analyti... | 1.0.1 |
| TIE Golden Ticket | -- | Analyti... | 1.0.1 |
| TIE Indicators of Attack | -- | Analyti... | 1.0.1 |
| TIE Indicators of Exposures | -- | Analyti... | 1.0.1 |

Manage

What to do next (do one of the following):

- [Configure the Tenable Vulnerability Management data collector app.](#)
- [Configure the Tenable Identity Exposure syslog collector app.](#)

Configure the Tenable Data Collector App

Required User Role: Basic User

Note: The Tenable integration with Microsoft Sentinel works with a **Basic User** if that user is assigned **Can View** permissions on the assets they are to export, along with **Can Use** permissions on tags the assets are assigned. Without the **Can Use** tag permissions, the assets return undefined or the integration fails to export vulnerabilities if a tag filter is used. For more information on Tenable Vulnerability Management permissions and user roles, refer to [Permissions](#) in the *Tenable Developer Portal*.

You can configure the Microsoft Sentinel data collector to allow you to bring in Tenable Vulnerability Management assets and vulnerabilities into Sentinel for better risk management. This integration uses the Microsoft Sentinel data collector framework and Azure functions to collect and insert data into Sentinel.

Microsoft Sentinel is a scalable, cloud-native, security information event management (SIEM), and security orchestration automated response (SOAR) solution. For more information about Microsoft Sentinel, see the [Microsoft documentation](#).

Before you begin:

- [Install the Tenable App for Microsoft Sentinel](#).
- The following requirements are essential for configuring all components:
 - Microsoft EntraID Application. The Azure account user must have an Application Developer or Application Owner role at subscription level to create Microsoft EntraID Application.
 - A Logs Analytics Workspace with Microsoft Sentinel enabled in your Azure subscription.
 - Microsoft Sentinel Workspace
- For assistance with launching Microsoft Sentinel, see the [Microsoft Sentinel quick start guide](#).

Note: The Microsoft Azure Sentinel integration does not export fixed vulnerabilities.

Data Connector Usage and Functionality

The Tenable VM Data Connector ingests following five types of data via various functions: Tenable VM Assets, Tenable VM Vulnerabilities, Tenable VM Compliance, Tenable WAS Assets, and Tenable WAS Vulnerabilities.

Based on the input you provide, the Function App fetches data periodically for the selected inputs from the Tenable platform. The collected data is then ingested into the MS Sentinel Tables. The following data types provide the flow of execution for all the functions (for asset type) and a similar flow is executed for all the other types of data.

- TenableExportStarter
- TenableExportOrchestrator
- TenableStartAssetExportJob
- TenableAssetExportStatusAndSendChunks
- TenableAssetDownloadChunkOrchestrator
- TenableAssetDownloadAndProcessChunks

Cleanup and stats functions running in the background:

- TenableCleanUpOrchestrator
- TenableGenerateJobStats
- TenableCleanTables

Obtain the Entra Object ID

Note: The Entra ID application generates two different Object IDs.

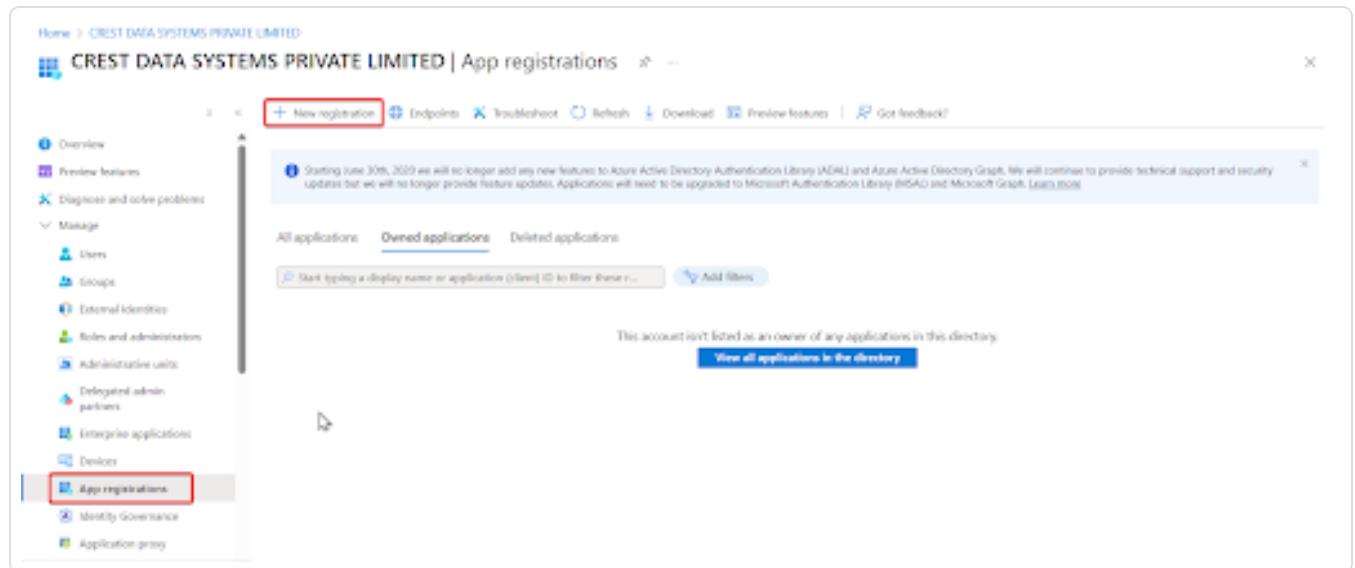
1. Sign in to the Azure Portal.
2. Search for and select **Microsoft Entra ID**.
3. In the left side menu, select **Enterprise applications**.

App Registration steps for the Application in Microsoft Entra ID

This integration requires an App Registration in the Azure Portal. To create a new application in Microsoft Entra ID:

Note: If you already have an application and have the Client ID and Client Secret ready, you can skip this section.

1. Sign in to the Azure Portal.
2. Search for and select **Microsoft Entra ID**.
3. Navigate to **Manage**, select **App registrations**.
4. Click **New Registration**.



The screenshot shows the Azure Portal interface for a tenant named 'CREST DATA SYSTEMS PRIVATE LIMITED'. The left sidebar is open, showing 'Manage' and 'App registrations' (which is highlighted with a red box). The main content area shows a message about the end of support for AADAL and Azure AD Graph. Below this, there are tabs for 'All applications', 'Owned applications' (which is selected and highlighted with a red box), and 'Deleted applications'. A search bar and a 'View all applications in the directory' button are also visible.

5. Enter a **Display Name** for your application.
6. Click **Register** to complete the initial app registration.

Once the registration is complete, the Azure Portal displays the App Registration Overview pane. There you can find the Application (Client) ID and Tenant ID, both required as configuration parameters in the Tenable VM MS Sentinel Data Connector.

Add a client secret for application in Microsoft Entra ID

To create a new **Client Secret** (also known as an application password) for the Tenable VM MS Sentinel Data Connector:

1. Sign in to the Azure Portal.
2. Navigate to **App registrations** and select your application.

3. Go to **Certificates & secrets > Client secrets > New client secret.**
4. Enter a description for your client secret.
5. Choose an expiration period or specify a custom lifetime (maximum limit is 24 months).
6. To generate the client secret, Click **Add**.

The screenshot shows the Azure portal interface for managing app registrations. On the left, the 'Certificates & secrets' blade is open, with the 'Client secrets' tab selected. A red box highlights the 'Certificates & secrets' link in the left sidebar. On the right, a modal window titled 'Add a client secret' is displayed, also with a red box around the 'Certificates & secrets' link. The modal form includes fields for 'Description' (with a placeholder 'Enter a description for this client secret'), 'Expires' (set to 'Recommended: 180 days (5 months)'), and a 'Value' field containing '0fT*****'. At the bottom of the modal are 'Add' and 'Cancel' buttons.

Note: Make sure to record the client secret's value, as it will not be displayed again once you leave this page. The client secret value is a required configuration parameter for the Tenable VM MS Sentinel Data Connector.

Obtain the Entra Object ID, Client ID and Tenant ID

1. Sign in to the Azure Portal.
2. Navigate to **Microsoft Entra ID** and click **App Registrations**.
3. From the list of applications, search for the application you created and click it.

The Client ID, Tenant ID and Entra Object ID appears in the window



Assign role of Microsoft Sentinel Contributor to application in Microsoft Entra ID

1. Navigate to **Resource Group** and select your resource group.
2. In the left menu, click **Access control (IAM)**.
3. Click **Add**.
4. Choose **Add role assignment**.
5. Select **Microsoft Sentinel Contributor** as the role.
6. Click **Next**.
7. In **Assign access to**, select **User, Group, or Service Principal**.
8. Click **Add members**.
9. Type the name of the application you created, and select it.
10. Click **Review + assign**.

A new window appears.

11. In the new window, again click **Review + assign**.

Configure the data connector

1. Go to **Microsoft Sentinel**, select the **Workspace** where the solution was installed,
2. Navigate to **Data Connectors**, search for "Tenable Vulnerability Management Data Connector."
3. Click **Open Connector Page**.

4. On the connector page, scroll down the right-side section, locate and click the **Deploy to Azure** button.

A pop-up to **Open external website?** appears.

5. Click **Yes**.

You are redirected to the configuration screen for the Tenable Vulnerability Management Data Connector.

6. Once all fields have been populated, click **Review + create**.

| Parameter Name | Description |
|----------------|--|
| Resource | Resource group of your azure account in which you want to configure this |

| Parameter Name | Description |
|---------------------------|---|
| Group | data connector. |
| Function Name | Name of the Function App Name. <div style="border: 1px solid #0072BD; padding: 5px; margin-top: 10px;"> Note: Keep the default name </div> |
| Workspace Name | Log analytics workspace name. Can be found under Log analytics > Settings . |
| Tenable Access Key | Access key for using the Tenable API. |
| Tenable Secret Key | Secret key for using the Tenable API. |
| Location | The location in which the data collection rules and data collection endpoints should be deployed. |
| Azure Client Id | Provide Azure Client Id that you created during App Registration in the Microsoft Entra ID. |
| Azure Client Secret | Provide the Azure Client Secret that you created when creating the client secret in the App Registered in the Microsoft Entra ID. |
| Tenant Id | Provide Tenant Id of your Microsoft Entra ID. |
| Azure Entra Object Id | Provide Object id of your Microsoft Entra App. |
| Lowest Severity to Store | The lowest vulnerability severity to store. If you select ANY , then the selected severity, and all greater severities are considered to collect vulnerability data. |
| Compliance Data Ingestion | Select true if you want to enable Compliance data ingestion from Tenable VM. (Default is false.) |

| Parameter Name | Description |
|------------------------------------|--|
| WAS Asset Data Ingestion | Select true if you want to enable WAS Asset data ingestion from Tenable VM. (Default is false.) |
| WAS Vulnerability Data Ingestion | Select true if you want to enable WAS Vulnerability data ingestion from Tenable VM. (Default is false.) |
| Lowest Severity to Store for WAS | The lowest vulnerability severity to store for WAS. If you select ANY, then the selected severity, and all greater severities are considered to collect WAS Vuln data. |
| Tenable Export Schedule In Minutes | Schedule in minutes to create a new export job from Tenable VM. |
| Asset Table Name | Enter name of the table used to store Asset Data logs. <div data-bbox="474 1220 1188 1262" style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> Note: Leaving this field empty causes a validation error. </div> |
| Vuln Table Name | Enter name of the table used to store Vulnerability Data logs. <div data-bbox="474 1396 1188 1438" style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> Note: Leaving this field empty causes a validation error. </div> |
| Compliance Table Name | Enter name of the table used to store Compliance Data logs. <div data-bbox="474 1571 1188 1613" style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> Note: Leaving this field empty causes a validation error. </div> |
| WAS Asset Table Name | Enter name of the table used to store WAS Asset Data logs. <div data-bbox="474 1746 1188 1788" style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> Note: Leaving this field empty causes a validation error. </div> |

| Parameter Name | Description |
|------------------------------------|---|
| WAS Vuln Table Name | <p>Enter name of the table used to store WAS Vulnerability Data logs.</p> <div style="border: 1px solid #0078D4; padding: 5px; margin-top: 10px;"> Note: Leaving this field empty causes a validation error. </div> |
| App Insights Workspace Resource ID | <p>Migrate Classic Application Insights to Log Analytic Workspace (going end-of life by 29 February 2024). Use the Log Analytic Workspace > Properties setting with the Resource ID property value. This is a fully qualified resourceId in the following format: '/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.OperationalInsight/s/workspaces/{workspaceName}'</p> |

You can find `AppInsightsWorkspaceResourceId` in your Log Analytics Workspace under Properties.



The screenshot shows the 'Properties' page for a Log Analytics workspace named 'TenableWAS'. The 'Resource ID' field is highlighted with a red box. The URL in the browser is 'Log Analytics workspaces > TenableWAS'. The page displays the following fields:

- Workspace ID: [redacted]
- Resource ID: [redacted] (highlighted with a red box)
- Subscription Name: [redacted]
- Subscription Id: [redacted]
- Resource group: [redacted]
- Location: [redacted]

7. The fields are finalized. Click **Create**.

Microsoft Azure

Search resources, services, and do

Home > Custom deployment

Deploy from a custom template

Terms

Azure Marketplace Terms | Azure Marketplace

By clicking "Create," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

Microsoft assumes no responsibility for any actions performed by third-party templates and does not provide rights for third-party products or services. See the [Azure Marketplace Terms](#) for additional terms.

Deploying this template will create one or more Azure resources or Marketplace offerings. You acknowledge that you are responsible for reviewing the applicable pricing and legal terms associated with all resources and offerings deployed as part of this template. Prices and associated legal terms for any Marketplace offerings can be found in the [Azure Marketplace](#); both are subject to change at any time prior to deployment.

Neither subscription credits nor monetary commitment funds may be used to purchase non-Microsoft offerings. These purchases are billed separately.

If any Microsoft products are included in a Marketplace offering (e.g. Windows Server or SQL Server), such products are licensed by Microsoft and not by any third party.

Basics

| | |
|------------------------------------|-----------------------|
| Subscription | Azure subscription AB |
| Resource group | tenable-integration |
| Region | Australia Southeast |
| Function Name | TenableIO |
| Workspace ID | XXXXXXXXXXXXXXXXXXXX |
| Workspace Key | XXXXXXXXXXXXXXXXXXXX |
| Tenable Access Key | XXXXXXXXXXXXXXXXXXXX |
| Tenable Secret Key | XXXXXXXXXXXXXXXXXXXX |
| Tenable Export Schedule In Minutes | 720 |

Previous | Next | **Create**

- Once the deployment has been completed, click **Go to Resource Group** to see the resources that have been created.

The screenshot shows the Microsoft Azure Deployment Overview page for a deployment named "Microsoft.Template-20230903191657". The status is "Your deployment is complete". Deployment details include: Deployment name: Microsoft.Template-20230903191657, Subscription: Azure subscription AB, Resource group: tenable-integration. The deployment started on 9/3/2023, 7:17:00 PM with a Correlation ID of 57cc79d2-d756-4abb-a5b6-5daf86fa5884. There are links for "Deployment details" and "Next steps", and a "Go to resource group" button. Feedback options "Give feedback" and "Tell us about your experience with deployment" are also present.

The Data Connector is now available under **Function App**.

9. Navigate to Function App by searching for it in the search box.

The screenshot shows the Microsoft Azure search interface with the search term "Function App" entered. The search results list "FunctionApp" as the top result under the "Services" category. Other results include "App Services", "Network Function Definitions", "Network Function Definition Versions", "Service catalog managed application definitions", "VM application definitions", "Definitions", and "App Configuration". The left sidebar shows "Azure services" and "Resources".

10. Locate the installed Function App using the name provided during configuration

The screenshot shows the Microsoft Azure Function App list. It displays a single entry for "tenableintegrxfunction" with the following details: Name: tenableintegrxfunction, Status: Running, Location: East US, Pricing Tier: Dynamic, App Service Plan: (selected), Subscription: (selected), and App Type: Function App. The list includes buttons for "+ Create", "Manage view", "Refresh", "Export to CSV", "Open query", "Assign tags", "Start", "Stop", "Reset", "Delete", and "Group by none".

11. Click the Tenable Function App.

The screenshot shows the Azure portal interface for a Function App named 'tenable'. The 'Overview' tab is selected. Key details shown include:

- Resource group: [REDACTED]
- Status: Running
- Location: East US
- Subscription: [REDACTED]
- Default domain: tenable
- Operating System: Linux
- App Service Plan: EastUSLinuxDynamicsFuncs.v1.0
- Runtime version: 4.1040.300.0
- Tags: Tenable, AzureSentinel, environment: Production

The 'Functions' section lists two functions:

| Name | Trigger | Status | Monitor |
|---------------------------------------|---------------|---------|---------------------------|
| TenableAssetExportOrchestrator | Orchestration | Enabled | Orchestration information |
| TenableAssetExportStatusAndSendChunks | Activity | Enabled | Invocations and more |

The associated Azure Functions responsible for ingesting data into Microsoft Sentinel appear.

Once the integration is set up, data starts flowing into Microsoft Sentinel through the configured **Function App**. You can view this data in the **Log Analytics Workspace** tables specified during setup or use the parsers deployed during installation.

Configure the Tenable Identity Exposure Syslog Collector App

Required User Role: Basic User

Note: The Tenable integration with Microsoft Azure Sentinel works with a **Basic User** if that user is assigned **Can View** permissions on the assets they are to export, along with **Can Use** permissions on tags the assets are assigned. Without the **Can Use** tag permissions, the assets return undefined or the integration fails to export vulnerabilities if a tag filter is used. For more information on Tenable Vulnerability Management permissions and user roles, refer to [Permissions](#) in the *Tenable Developer Portal*.

The TIE syslog collector allows you to send TIE syslog messages to Microsoft Azure Sentinel for centralized alerting and reporting.

Microsoft Azure Sentinel is a scalable, cloud-native, security information event management (SIEM), and security orchestration automated response (SOAR) solution. For more information about Microsoft Sentinel, see the [Microsoft documentation](#).

Note: This data connector depends on [afad_parser](#) based on a Kusto function to work as expected. This is deployed with the Microsoft Sentinel solution.

Before you begin:

Note: Tenable Identity Exposure currently **does not support** the Azure Monitor Agent (AMA).

- [Install Microsoft Azure Sentinel](#).
- You must have a Logs Analytics Workspace with Microsoft Sentinel enabled in your Azure subscription.
- For assistance with launching Microsoft Sentinel, see the [Microsoft Sentinel quick start guide](#).

Configure the Syslog server

Note: You need a Linux Syslog server that TenableIE can send logs to. Typically, you can run `rsyslog` on Ubuntu. You can then configure this server as you wish, but Tenable recommends that you ensure that you are able to output TenableIE logs in a separate file.

Configure `rsyslog` to accept logs from your Tenable IE IP address by running the following commands:

1. Set TenableIE source IP address:

```
```shell
sudo -i

Set TenableIE source IP address
export TENABLE_IE_IP={Enter your IP address}
```

2. Create `rsyslog` configuration file:

```
Create rsyslog configuration file
cat > /etc/rsyslog.d/80-tenable.conf << EOF
\$ModLoad imudp
\$UDPServerRun 514
\$ModLoad imtcp\n\$InputTCPServerRun 514
\$AllowedSender TCP, 127.0.0.1, $TENABLE_IE_IP
\$AllowedSender UDP, 127.0.0.1, $TENABLE_IE_IP
\$template MsgTemplate, "%TIMESTAMP:::date-rfc3339% %HOSTNAME%
%programname%[%procid%]:%msg%\"
```

```
\"$template remote-incoming-logs, \"/var/log/%PROGRAMNAME%.log\"
. ?remote-incoming-logs;MsgTemplate
EOF
```

### 3. Restart rsyslog:

```
Restart rsyslog\nsystemctl restart rsyslog
~~~  
~~~shell  
sudo -i
```

## Install and onboard the Microsoft agent for Linux

**Note:** The OMS agent receives the TenableIE syslog events and publish them in Microsoft Sentinel instructions.

### 1. Choose where to install the agent:

- a. Install agent on Azure Linux Virtual Machine
  - i. Select the machine to install the agent on and then click **Connect**.
  - ii. Find this URL: [InstallAgentOnLinuxVirtualMachine](#)
- b. Install agent on a non-Azure Linux Machine
  - i. Download the agent on the relevant machine and follow the instructions
  - ii. Find this URL: [InstallAgentOnLinuxNonAzure](#)

## Check agent logs on the Syslog server

```
```shell
tail -f /var/opt/microsoft/omsagent/log/omsagent.log
```
```

## Configure TenableIE to send logs to your Syslog server

1. In your **TenableIE** portal, go to **System > Configuration > Syslog**.
2. Create a new Syslog alert toward your Syslog server.
3. Check that the logs are correctly gathered on your server in a separate file (you can use the **Test the configuration** button in the Syslog alert configuration in TenableIE).

**Note:** If you used the **Quickstart** template, the Syslog server listens by default on port 514 in UDP and 1514 in TCP, without TLS.

## Configure the agent to collect the custom logs

1. In Microsoft Sentinel, go to **Configuration > Settings > Workspace settings > Custom logs**.
2. Click **Add custom log**.
3. Upload a sample **Tenable.ad.log** Syslog file from the **Linux** machine running the **Syslog** server.
4. Click **Next**.
5. Set the record delimiter to **New Line** (if not already set).
6. Click **Next**.
7. Select **Linux** and enter the file path to the **Syslog** file and click the **+** icon.
8. Click **Next**.

**Note:** The default location of the file is **/var/log/Tenable.ad.log** if you have a Tenable version **<3.1.0**, you must also add this Linux file location **/var/log/AlsidForAD.log**.

9. Set the **Name** to **Tenable\_IE\_CL**.

**Note:** Azure automatically adds "\_CL" at the end of the name. There must be only one addition, so make sure the name is not Tenable\_IE\_CL\_CL.

10. Click **Next**.
11. Click **Create**.

# Audit Microsoft Azure

---

To audit Microsoft Azure, do the following:

- Configure Microsoft Azure for use with a compliance audit, as described in [Configure Azure \(Compliance Audit\)](#).
- Create an audit scan with Tenable Vulnerability Management or Tenable Nessus:
  - [Audit Microsoft Azure in Tenable Vulnerability Management](#)
  - [Audit Microsoft Azure in Tenable Nessus](#)

For more information on the Microsoft Azure audit, see [Microsoft Azure Audit Compliance Reference](#) in the *Compliance Checks Reference*.

## Configure Azure for a Compliance Audit

The Tenable integration for Microsoft Azure supports multiple methods for creating and registering the application: Key Authentication, Password Authentication, and Certificate Authentication.

Choose either of the authentication methods, then complete the setup with the [Assign API Permissions](#) steps.

### Key Authentication Method

#### Register Application: Key

1. Click **Microsoft Entra ID > App Registrations**.
2. Click the **New Registrations** application.
3. Give the application a name.
4. Choose the supported account types for your environment.
5. Choose **Public Client/Native** for the redirect URI type.
6. (Optional) Add a redirect URI.
7. Click **Register**.

#### Create Application Client Secret

---

1. Click your registered application in Microsoft Entra ID > App Registrations.
2. Click Certificates and Secrets.
3. Click + New client secret.

Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

4. Give the secret a name and click Add.

**Tip** Copy the secret somewhere safe for use in authenticating during a scan.

## Assign the Application to the Reader Role

1. Click Subscriptions > Your Subscription > Access Control (IAM) > Role Assignments > + Add.
2. Add the Reader role to the application you previously created for scanning.
3. Select Reader from the Role drop-down menu.
4. Assign access to User, Group, or Service Principal.
5. In the Select field, type the name of your created application.
6. Select the application.
7. Click Save.

## Password Authentication Method

### Create Microsoft Entra ID User Account

Create a new user to scan in the Microsoft Entra ID. See the [Microsoft Azure](#) documentation for steps to add a new user.

### Assign User the Reader Role

---

1. Click **Subscriptions > Your Subscription > Access Control (IAM) > Role Assignments > + Add.**
2. Add the **Reader** role to the user account you created for scanning.

## Register Application: Password

---



1. Click on Microsoft Entra ID > App registrations.



## Azure Active Directory

Overview

Preview features

Diagnose and solve problems

### Manage

Users

Groups

External Identities

Roles and administrators

Administrative units

Enterprise applications

Devices

App registrations

Identity Governance

Application proxy

Licenses

Azure AD Connect

Custom domain names

Mobility (MDM and MAM)

Password reset

Company branding

User settings

---

2. Click **New Registrations** application.
3. Give the application a name.
4. Choose the supported account types for your environment.
5. Click **Register**.
6. Click **Authentication**.
7. Choose **Yes** for Default Client Type/Treat application as a public client.

## Certificate Authentication Method

### Register Application: Certificate

1. Click **Microsoft Entra ID > App Registrations**.
2. Click the **New Registrations** application.
3. Give the application a name.
4. Choose the supported account types for your environment.
5. Choose **Public Client/Native** for the redirect URI type.
6. (Optional) Add a redirect URI.
7. Click **Register**.

### Generate a Certificate

Execute the following PowerShell commands, replacing the appropriate values:

1. 

```
$certname = "{certificateName}" ## Replace {certificateName}
```
2. 

```
$cert = New-SelfSignedCertificate -Subject "CN=$certname" -CertStoreLocation "Cert:\CurrentUser\My" -KeyExportPolicy Exportable -KeySpec Signature -KeyLength 2048 -KeyAlgorithm RSA -HashAlgorithm SHA256
```
3. 

```
Export-Certificate -Cert $cert -FilePath "C:\Users\admin\Desktop\$certname.cer" ## Specify your preferred location
```

### Add Certificate

---

1. Click your registered application in **Microsoft Entra ID > App Registrations**.
2. Click **Certificates and Secrets**.
3. Click **Certificates**.
4. Click **Upload certificate**.
5. Select the certificate file you exported.
6. Give the certificate a description and click **Add**.

## Assign the Application to the Reader Role

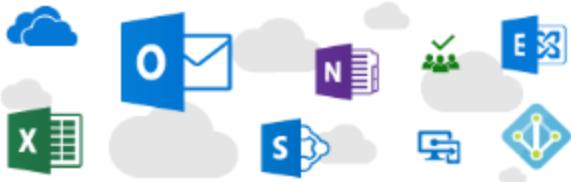
1. Click **Subscriptions > Your Subscription > Access Control (IAM) > Role Assignments > + Add**.
2. Add the **Reader** role to the application you previously created for scanning.
3. Select **Reader** from the **Role** drop-down menu.
4. Assign access to **User, Group, or Service Principal**.
5. In the **Select** field, type the name of your created application..
6. Select the application.
7. Click **Save**.

## API Permissions

### Assign API Permissions

1. Click your registered application in **Microsoft Entra ID > App Registrations > Your Application > API Permissions**.

## Call APIs



Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources.

[View API Permissions](#)

## Sign in users in 5 minutes

### 2. Select Microsoft Graph.

**Note:** If adding permissions for Key Authentication, then select **Application permissions**. If adding permissions for Password Authentication, then select **Delegated permissions**.

### 3. In the **Configured permissions** section, click **Add a permission**.

### 4. Add the following permissions:

- Azure Service Management – user\_impersonation
- Microsoft Graph – Calendars.Read
- Microsoft Graph – DeviceManagementApps.Read.All
- Microsoft Graph – DeviceManagementConfiguration.Read.All
- Microsoft Graph – Directory.Read.All
- Microsoft Graph – Policy.Read.All
- Microsoft Graph – Reports.Read.All
- Microsoft Graph – User.Read.All

Scanning Microsoft Intune:

- Microsoft Graph – DeviceManagementApps.Read.All
- Microsoft Graph – DeviceManagementManagedDevices.Read.All

| API / Permissions name         | Type        | Description                                             | Admin consent req... | Status                     |
|--------------------------------|-------------|---------------------------------------------------------|----------------------|----------------------------|
| ✓ Azure Service Management (1) |             |                                                         |                      | ...                        |
| user_impersonation             | Delegated   | Access Azure Service Management as organization user    | -                    | ✓ Granted for Bob Corp ... |
| ✓ Microsoft Graph (7)          |             |                                                         |                      | ...                        |
| Calendars.Read                 | Application | Read calendars in all mailboxes                         | Yes                  | ✓ Granted for Bob Corp ... |
| DeviceManagementApps.Read      | Application | Read Microsoft Intune apps                              | Yes                  | ✓ Granted for Bob Corp ... |
| DeviceManagementConfigural     | Application | Read Microsoft Intune device configuration and policies | Yes                  | ✓ Granted for Bob Corp ... |
| Directory.Read.All             | Application | Read directory data                                     | Yes                  | ✓ Granted for Bob Corp ... |
| Policy.Read.All                | Application | Read your organization's policies                       | Yes                  | ✓ Granted for Bob Corp ... |
| Reports.Read.All               | Application | Read all usage reports                                  | Yes                  | ✓ Granted for Bob Corp ... |
| User.Read.All                  | Application | Read all users' full profiles                           | Yes                  | ✓ Granted for Bob Corp ... |

5. Click **Grant admin consent**.

6. Click **Add permissions**.

**Note:** Additional configuration is required to perform a ScubaGear audit against a Microsoft 365 environment. Refer to [Configure Azure for ScubaGear Audit](#).

What to do next:

Create an audit scan in either Tenable Vulnerability Management or Tenable Nessus:

- [Audit Microsoft Azure in Tenable Vulnerability Management](#)
- [Audit Microsoft Azure in Tenable Nessus](#)

## Configure Azure for Microsoft 365 and ScubaGear Audits

Additional configurations are required to perform a ScubaGear audit against a Microsoft 365 environment:

### Assign API Permissions

1. Click your registered application in Microsoft Entra ID > App Registrations > Your Application > API Permissions.

## Call APIs



Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources.

[View API Permissions](#)

## Sign in users in 5 minutes

### 2. Select Microsoft Graph.

When adding permissions for **Certificate Authentication**, select **Application permissions**.

### 3. In the **Configured permissions** section, click **Add a permission**.

### 4. Add the following permissions:

- Microsoft Graph
  - Directory.Read.All
  - GroupMember.Read.All
  - Organization.Read.All,
  - Policy.Read.All,
  - RoleManagement.Read.Directory,
  - User.Read.All
  - PrivilegedEligibilitySchedule.Read.AzureADGroup

---

- PrivilegedAccess.Read.AzureADGroup
- RoleManagementPolicy.Read.AzureADGroup
- AuditLog.Read.All
- Calendars.Read
- DeviceManagementApps.Read.All
- DeviceManagementConfiguration.Read.All
- Directory.Read.All
- GroupMember.Read.All
- Organization.Read.All
- OrgSettings-AppsAndServices.Read.All
- OrgSettings-Forms.Read.All
- Policy.Read.All
- PrivilegedAccess.Read.AzureADGroup
- PrivilegedEligibilitySchedule.Read.AzureADGroup
- Reports.Read.All
- RoleManagement.ReadWrite.Exchange
- RoleManagementPolicy.Read.AzureADGroup
- SecurityActions.Read.All
- SecurityAlert.Read.All
- SecurityEvents.Read.All
- SharePointTenantSettings.Read.All
- Sites.Read.All
- User.Read

---

- Microsoft Teams Services
  - AdminAppCatalog.Read.All
- Office 365 Exchange Online
  - Exchange.ManageAsApp
- SharePoint
  - Sites.FullControl.All

## Configure Microsoft Entra ID Roles

1. In the **Manage** section of Microsoft Entra ID, click **Roles and administrator**.
2. Click the **Global Reader** role,
3. Click **Add assignments**.
4. Select the application you created, and click **Add**.

## Configure Power Platform

- As an account with Power Platform Administrator, or Global Administrator roles, register the service principal:

```
Add-PowerAppsAccount -Endpoint prod -TenantID <tenant id>
```

## Audit Microsoft Azure in Tenable Vulnerability Management

Tenable offers the ability to audit the Microsoft Azure Cloud environment to detect misconfigurations in the cloud environment and account settings using Tenable Vulnerability Management. Complete the following steps to Audit Microsoft Azure in Tenable Vulnerability Management.

For more information on the Microsoft Azure audit, see the [Microsoft Azure Audit Compliance Reference](#) in the *Compliance Checks Reference*.

Before you begin:

- Configure Azure as described in [Configure Azure for a Compliance Audit](#).

**Note:** No pre-authorization is needed from Microsoft to perform the audit, but a Microsoft Azure account is required.

To audit Microsoft Azure in Tenable Vulnerability Management:

1. Log in to Tenable Vulnerability Management.

2. In the upper-left corner, click the  button.

The left navigation plane appears.

3. In the left navigation plane, in the **Vulnerability Management** section, click **Scans**.

The **Scans** page appears.

4. In the upper-right corner of the page, click  **Create a Scan**.

The **Select a Scan Template** page appears.

5. Select the **Audit Cloud Infrastructure** template.

The **Audit Cloud Infrastructure** page appears.

6. In the **Name** box, type a descriptive name for the scan.

7. (Optional) In the **Description** box, enter information to describe your scan.

8. Click **Compliance**.

9. Click **Microsoft Azure**.

Tenable offers pre-configured compliance checks and provides the ability to upload a custom Azure audit file.

**Note:** For information on creating a custom audit, see the [Microsoft Azure Audit Compliance Reference](#) in the *Nessus Compliance Checks Reference Guide*.

10. Click each compliance check you want to add to the scan.

11. If you choose to add a custom audit file, click **Add File** and select the file to upload.

12. Click **Credentials**.

13. Click **Microsoft Azure**.

**Note:** See the [Required User Privileges](#) section in the Nessus User Guide for the required Microsoft Azure privileges.

14. Click the **Authentication Method** drop-down menu to select your preferred authentication method: **key**, **password**, or **certificate**.

Configure the credentials for your selected authentication method.

To configure key authentication:

| Option           | Description                                                                                                    | Required |
|------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Tenant ID        | The <a href="#">Tenant ID</a> or Directory ID for your Azure environment.                                      | Yes      |
| Application ID   | The application ID (also known as client ID) for your registered application.                                  | Yes      |
| Client Secret    | The secret key for your registered application.                                                                | Yes      |
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No       |

To configure password authentication:

| Option           | Description                                                                                                    | Required |
|------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Username         | The username required to log in to Microsoft Azure.                                                            | Yes      |
| Password         | The password associated with the username.                                                                     | Yes      |
| Client ID        | The application ID (also known as client ID) for your registered application.                                  | Yes      |
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No       |

To configure certificate authentication:

| Option           | Description                                                                                                    | Required |
|------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Tenant ID        | The <a href="#">Tenant ID</a> or Directory ID for your Azure environment.                                      | Yes      |
| Application ID   | The application ID (also known as client ID) for your registered application.                                  | Yes      |
| Private Key      | A PEM formatted 2048-bit RSA private key and certificate.                                                      | Yes      |
| Config File      | Additional configuration parameters. Currently only applicable for SCuBA scans.                                | No       |
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No       |

15. Do one of the following:

- Click **Save**.
- Click the drop-down arrow next to **Save** and select **Launch** to initiate the scan.

**Note:** For additional information on configuring Tenable Vulnerability Management scans, refer to the [Tenable Vulnerability Management User Guide](#).

## Audit Microsoft Azure in Tenable Nessus

Tenable offers the ability to audit the Microsoft Azure Cloud environment to detect misconfigurations in the cloud environment and account settings using Tenable Nessus. Complete the following steps to Audit Microsoft Azure in Tenable Nessus.

For more information on the Microsoft Azure audit, see the [Microsoft Azure Audit Compliance Reference](#) in the *Compliance Checks Reference*.

Before you begin:

- Configure Azure as described in [Configure Azure for a Compliance Audit](#).

**Note:** No pre-authorization is needed from Microsoft to perform the audit, but a Microsoft Azure account is required.

## To Audit Microsoft Azure in Tenable Nessus:

1. Log in to Tenable Nessus.
2. In the upper-left corner, click the  button.

The left navigation plane appears.

3. In the left navigation plane, in the **Vulnerability Management** section, click **Scans**.
- The **Scans** page appears.

4. In the upper-right corner of the page, click  **Create a Scan**.

The **Select a Scan Template** page appears.

5. In the **Compliance** section, select the **Audit Cloud Infrastructure** template.

The **Audit Cloud Infrastructure** page **Settings** tab appears.

6. In the **Name** box, type a descriptive name for the scan.
7. (Optional) In the **Description** box, enter information to describe your scan.
8. Click the **Credentials** tab.
9. In the **Categories** section, click **Microsoft Azure**.

The **Microsoft Azure** options appear.

10. Click the **Authentication Method** drop-down menu to select your preferred authentication method: **key**, **password**, or **certificate**.
11. Configure the credentials for your selected authentication method.

To configure key authentication:

| Option    | Description                                                               | Required |
|-----------|---------------------------------------------------------------------------|----------|
| Tenant ID | The <a href="#">Tenant ID</a> or Directory ID for your Azure environment. | Yes      |

|                  |                                                                                                                |     |
|------------------|----------------------------------------------------------------------------------------------------------------|-----|
| Application ID   | The application ID (also known as client ID) for your registered application.                                  | Yes |
| Client Secret    | The secret key for your registered application.                                                                | Yes |
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No  |

To configure password authentication:

| Option           | Description                                                                                                    | Required |
|------------------|----------------------------------------------------------------------------------------------------------------|----------|
| Username         | The username required to log in to Microsoft Azure.                                                            | Yes      |
| Password         | The password associated with the username.                                                                     | Yes      |
| Client ID        | The application ID (also known as client ID) for your registered application.                                  | Yes      |
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No       |

To configure certificate authentication:

| Option         | Description                                                                     | Required |
|----------------|---------------------------------------------------------------------------------|----------|
| Tenant ID      | The <a href="#">Tenant ID</a> or Directory ID for your Azure environment.       | Yes      |
| Application ID | The application ID (also known as client ID) for your registered application.   | Yes      |
| Private Key    | A PEM formatted 2048-bit RSA private key and certificate.                       | Yes      |
| Config File    | Additional configuration parameters. Currently only applicable for SCuBA scans. | No       |

---

|                  |                                                                                                                |    |
|------------------|----------------------------------------------------------------------------------------------------------------|----|
| Subscription IDs | List of subscription IDs to scan, separated by a comma. If this field is blank, all subscriptions are audited. | No |
|------------------|----------------------------------------------------------------------------------------------------------------|----|

12. Click **Compliance**.

13. Click **Microsoft Azure**.

Tenable offers pre-configured compliance checks and provides the ability to upload a custom Azure audit file.

**Note:** For information on creating a custom audit, see the [Microsoft Azure Audit Compliance Reference](#) in the *Nessus Compliance Checks Reference Guide*.

14. Click each compliance check you want to add to the scan.

15. If you choose to add a custom audit file, click **Add File** and select the file to upload.

16. Click **Save**.

The credential saves and the **My Scans** page appears.

**Note:** For additional information on configuring Tenable Nessus scans, refer to the [Tenable Nessus User Guide](#).

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# Tenable Vulnerability Management

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View the following sections for steps on how to configure Tenable Vulnerability Management with Microsoft Azure.

- [Requirements](#)
- [Create a Scan](#)
- [Nessus Agent Scan](#)
- [Deploy a Nessus Agent](#)

## Integration Requirements

To integrate Tenable Vulnerability Management with Microsoft Azure, you need the following:

- **Tenable Vulnerability Management account**

To purchase a Tenable Vulnerability Management account or set up a free evaluation, visit <http://www.tenable.com/products/tenable-io>

- **Azure account**

To create a free account, visit <https://azure.microsoft.com/en-us/free/>

- **Internet connection**

You must have a `<user>@<somedomain>.onmicrosoft.com` account.

## Create a Scan

### Create a Tenable Vulnerability Management Scan

For instructions on creating a scan, see [Create a Scan](#) in the *Tenable Vulnerability Management User Guide*.

### Create an Agent Scan

For instructions on creating an Agent scan, see [Create an Agent Scan](#) in the *Tenable Vulnerability Management User Guide*.

# Nessus Agent Scan of Azure Virtual Instances

Tenable's Nessus Agents provide the ability to perform local scans on instances within the Microsoft Azure cloud environment. Nessus Agent Scans, which are configured, managed, and updated through Tenable Vulnerability Management or Tenable Nessus Manager, help identify vulnerabilities, compliance violations, misconfigurations, and malware.

Download Nessus Agents from the [Tenable Downloads site](#), install it on an instance running in the Microsoft Azure cloud environment, and link it to Tenable Vulnerability Management or Nessus Manager.

**Note:** Agents can be installed on your targets manually, via Group Policy, SCCM, or other third-party software deployment applications.

Nessus Agents are linked to Tenable Vulnerability Management or Nessus Manager in the same manner as linking to a secondary scanner. Before installing Nessus Agents, you must acquire the Agent Key from within Tenable Vulnerability Management or Nessus Manager.

1. To acquire the Agent Key, log in to Tenable Vulnerability Management or Nessus Manager.
2. Click **Settings > Scanners > Agents > Linked**.
3. A key is generated for the Nessus Agents to link to the scanner.

| Name                    | Status  | IP Address    | Platform             | Groups                  | Version | Last Plugin Update | Last Scanned |
|-------------------------|---------|---------------|----------------------|-------------------------|---------|--------------------|--------------|
| 8bae46cd-4a10-44a1-...  | Offline | N/A           | Windows (win-x86-64) | N/A                     | N/A     | N/A                | N/A          |
| 9488f67c-d668-41f2-8... | Offline | N/A           | Windows (win-x86-64) | N/A                     | N/A     | N/A                | N/A          |
| Server2012R2            | Offline | 172.26.38.65  | Windows (win-x86-64) | qa-agent, windows ag... | N/A     | N/A                | April 6      |
| Win81                   | Offline | 172.26.37.79  | Windows (win-x86-64) | qa-agent, windows ag... | N/A     | N/A                | April 6      |
| WINDOWS10ANNIVE         | Offline | 172.26.36.82  | Windows (win-x86-64) | qa-agent, windows ag... | N/A     | N/A                | April 6      |
| WINDOWS732              | Offline | 172.26.36.216 | Windows (win-x86)    | qa-agent, windows ag... | N/A     | N/A                | April 6      |

For more information on installing and configuring Nessus Agents, refer to the [Nessus User Guide](#).

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## Deploy a Nessus Agent

For instructions on deploying a Nessus Agent, see the [Nessus Agent Deployment](#) section in the *Nessus Agent and Deployment and User Guide*.

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# Tenable Web App Scanning

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View the following sections for steps on how to configure Tenable Web App Scanning with Microsoft Azure.

- [Provision Tenable Core Web Application Scanner \(BYOL\) in Azure Marketplace](#)
- [Create a Tenable Web App Scanning Scan](#)

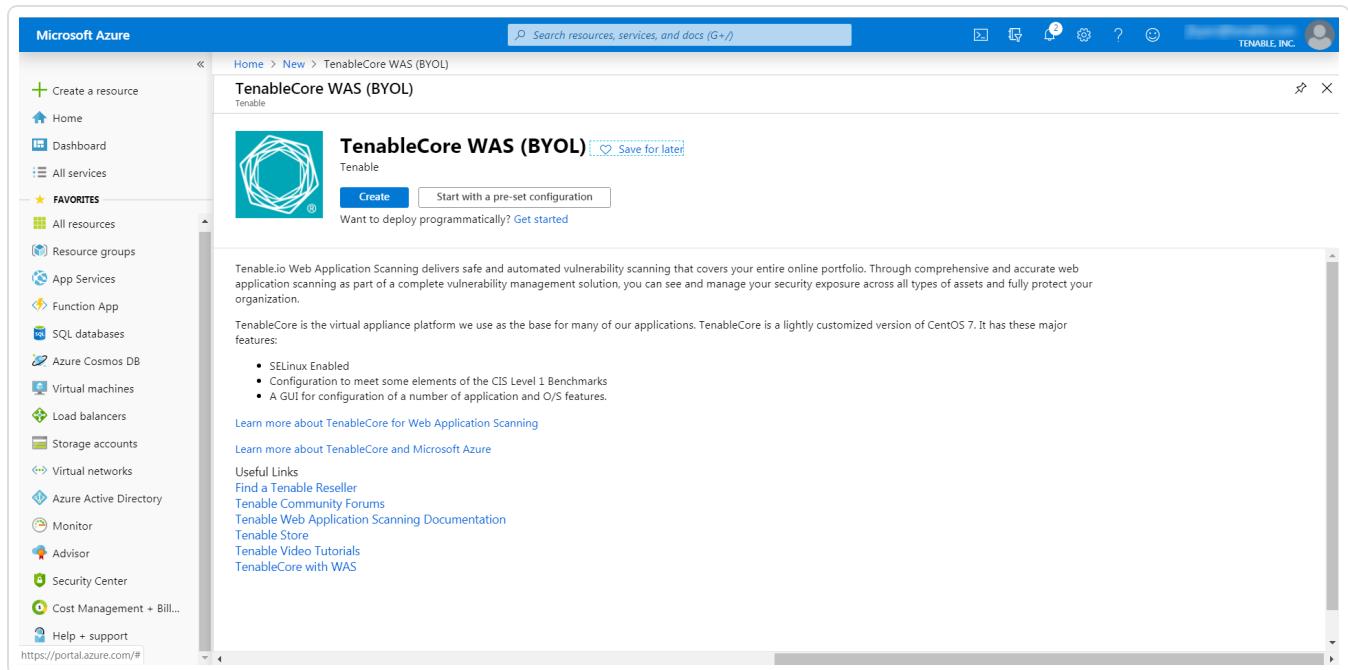
## Provision Tenable Core Web Application Scanner (BYOL)

Tenable Core Web Application Scanner Bring Your Own License (BYOL) is an instance of a Tenable Vulnerability Management Web Application Scanner installed in Microsoft Azure that allows you to scan internal-facing web applications deployed in Microsoft Azure. The Tenable Core Web Application Scanner (BYOL) is used to perform vulnerability assessments of web applications.

To provision a Tenable Core Web Application Scanner BYOL instance:

1. Log in to the Microsoft Azure portal.
2. In the left-hand menu, click **+ Create a resource**.  
The **New** page appears.
3. In the search box, type **TenableCore WAS (BYOL)**.  
As you type, Tenable options appear.
4. Select the **TenableCore WAS (BYOL)** option or press enter.

The TenableCore WAS (BYOL) page appears.



5. Click the **Create** button.

The **Create a virtual machine** page appears.

6. On the **Basics** tab, enter the required information for each option in the **Project details**, **Instance details**, and **Administrator account** sections.

| Option                  | Description                                                                           |
|-------------------------|---------------------------------------------------------------------------------------|
| <b>Project Details</b>  |                                                                                       |
| Subscription            | The account through which resources are reported and services are billed.             |
| Resource Group          | The collection of resources that share the same lifecycle, permissions, and policies. |
| <b>Instance Details</b> |                                                                                       |
| Virtual machine name    | The name used for both, the virtual machine and host name.                            |

|                              |                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | <p><b>Note:</b> The virtual machine name cannot be changed after the virtual machine is created. You can change the host name when you log into the virtual machine.</p>                                                                                                              |
| Region                       | <p>The regional location most suitable for you and your customers.</p> <p><b>Note:</b> Some virtual machine sizes are not available in certain regions.</p>                                                                                                                           |
| Availability options         | (Optional) Additional options to help manage availability and resilience of your applications. Provides options to use replicated virtual machines in availability zones or availability settings to protect your applications and data from outages and maintenance events.          |
| Image                        | The base operating system or application for the virtual machine.                                                                                                                                                                                                                     |
| Size                         | The virtual machine size to support the workload you want to run.                                                                                                                                                                                                                     |
| <b>Administrator Account</b> |                                                                                                                                                                                                                                                                                       |
| Authentication Type          | The type of authentication the administrator uses - SSH or password.                                                                                                                                                                                                                  |
| Username                     | The administrator username for the virtual machine.                                                                                                                                                                                                                                   |
| SSH Key                      | <p>(Only available when you select SSH for Authentication Type) The single-line RSA public key or multi-line PEM certificate.</p> <p>For additional information on setting up your SSH account, see <a href="#">Create a Password for the Initial Administrator User Account</a>.</p> |
| Password                     | (Only available when you select Password for                                                                                                                                                                                                                                          |

|                  |                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                  | Authentication Type) The administrator password for the virtual machine.                                                               |
| Confirm Password | (Only available when you select Password for Authentication Type) Verification for the administrator password for the virtual machine. |

7. Click the **Disks** tab.

The **Disks** page appears.

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The left sidebar shows various service icons. The main page title is 'Create a virtual machine'. The 'Disks' tab is currently selected. In the 'Disk options' section, the 'OS disk type' dropdown is set to 'Standard SSD'. There is an option to 'Enable Ultra Disk compatibility (Preview)' with radio buttons for 'Yes' and 'No', where 'No' is selected. The 'Data disks' section is collapsed. At the bottom of the page, there are buttons for 'Review + create' and 'Next : Networking >'. The URL in the browser is 'https://portal.azure.com/#create/Microsoft.Web/IIS-Web-App'. The page is titled 'Create a virtual machine'.

8. On the **Disks** page, in the **Disks option** section, select an **OS disk type** from the drop-down.
9. (Optional) In the **Data disks** section, you can add and configure additional data disks or attach existing disks.
10. Click the **Networking** tab.

The **Networking** page appears.

11. In the **Virtual Network** drop-down box, select a network.
12. (Optional) Select a **Public IP** and **NIC network security group**.
13. In the **Configure network group** drop-down box, select a resource group.

**Note:** You can create a new group by clicking the **Create new** link beneath the drop-down box.

14. (Optional) Enable or disable **Accelerated networking** option.
15. (Optional) In the **Load balancing** option, select to place the virtual machine behind an existing load balancing solution.
16. Click the **Management** tab.

The **Management** page appears.

17. Enter your management preferences.

| Options          | Description                             |
|------------------|-----------------------------------------|
| Monitoring       |                                         |
| Boot diagnostics | (Optional) Enable to capture the serial |

|                                      |                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | console output and screenshots of the virtual machine running on a host.                                                                              |
| OS guest diagnostics                 | (Optional) Enable to receive metrics for your virtual machine.                                                                                        |
| Diagnostic storage account           | The account used to store your metrics.                                                                                                               |
| <b>Identity</b>                      |                                                                                                                                                       |
| System assigned managed identity     | (Optional) Enable to grant permissions using the Azure role-based access control.                                                                     |
| <b>Microsoft Entra ID</b>            |                                                                                                                                                       |
| Login with AAD credentials (preview) | (Optional) Enable to use your corporate Active Directory credentials to log in to the virtual machine, enforce MFA, and enable access via RBAC roles. |
| <b>Auto-shutdown</b>                 |                                                                                                                                                       |
| Enable auto-shutdown                 | (Optional) Enable to automatically shutdown your virtual machine daily.                                                                               |

18. (Optional) Click the **Advanced** tab.

The **Advanced** page appears.

19. (Optional) On the Advanced page, enter information for the **Extensions**, **Cloud init**, **Host**, and **VM generation** sections.

20. (Optional) Click the **Tags** tab.

The **Tags** page appears.

21. (Optional) On the **Tags** page, use the drop-down boxes to create tags to help categorize your resources.

22. Click **Review + Create**.

---

The **Create a virtual machine** page appears, and the system begins a validation process.

After the validation completes, a success message appears at the top of the screen.

23. Click **Create**.

Azure begins the virtual machine deployment.

After the validation completes, a success message appears.

The TenableCore WAS (BYOL) virtual machine is added to your **Resource Groups**.

What to do next:

- To complete the configuration, see [Deploy Tenable Core + Tenable Web App Scanning in Microsoft Azure](#) in the *Tenable Core for Tenable Web App Scanning* user guide.

**Note:** Microsoft does not require pre-approval to conduct vulnerability scans against Azure resources.

## Web Application Scan

For instructions on creating a web application scan, see the [Create a Scan](#) section in the *Tenable Vulnerability Management User Guide*.

---

# Deploy a Tenable Nessus Scanner

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View the following links for steps on how to deploy a Tenable Nessus Scanner with Microsoft Azure.

- [Provision Tenable Core for Nessus \(BYOL\) in Azure Marketplace](#)
- [Install Nessus on an Azure virtual machine](#)
- [Deploy One-Click Nessus Agent](#)

## Provision Tenable Core Nessus (BYOL) in Azure Marketplace

Tenable Core Nessus Bring Your Own License (BYOL) is an instance of Nessus installed in Microsoft Azure that allows you to scan Azure cloud environments and assets. Tenable Core Nessus (BYOL) features include vulnerability detection, compliance misconfiguration detection, and malware detection.

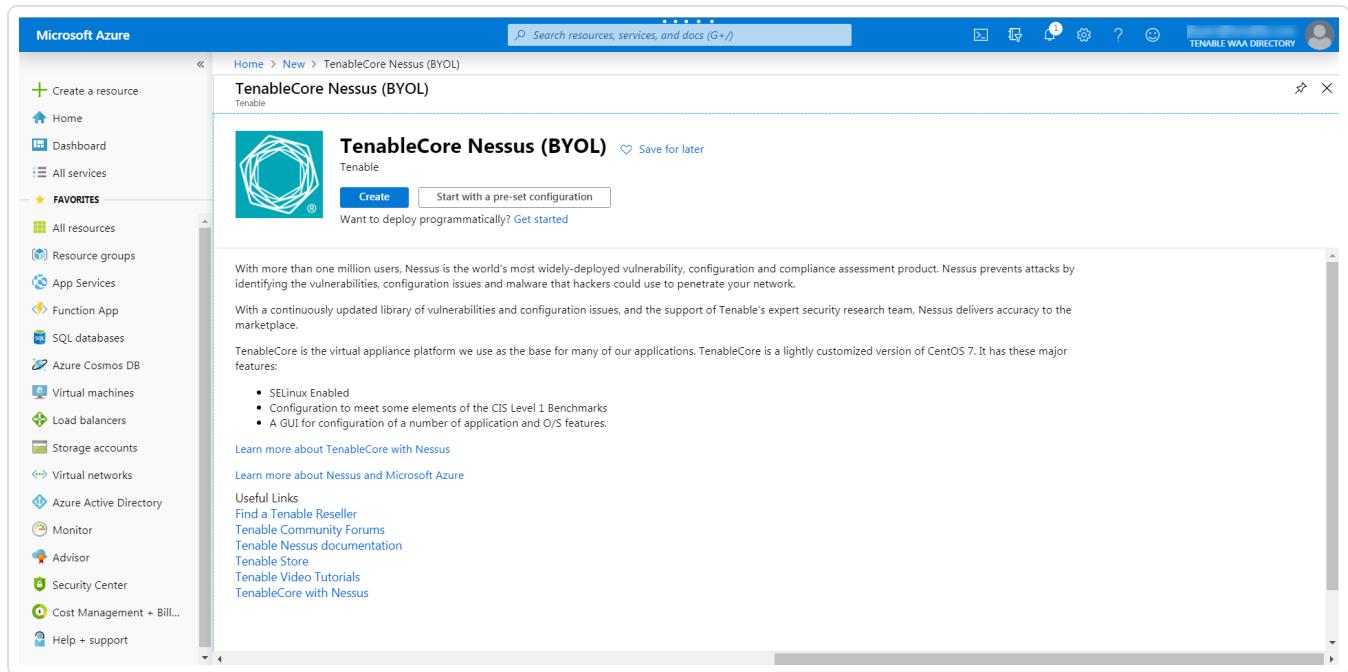
To provision a Tenable Core Nessus (BYOL) instance:

1. Log in to the Microsoft Azure portal.
2. In the left-hand menu, click **+ Create a resource**.

The **New** page appears.

3. In the search box, type TenableCore Nessus (BYOL).
4. Select the TenableCore Nessus (BYOL) option or press enter.

The TenableCore Tenable Nessus (BYOL) page appears.



5. Click the **Create** button.

The **Create a virtual machine** page appears.

6. On the **Basics** tab, enter the required information for each option in the **Project details**, **Instance details**, and **Administrator account** sections.

| Option                  | Description                                                                           |
|-------------------------|---------------------------------------------------------------------------------------|
| <b>Project Details</b>  |                                                                                       |
| Subscription            | The account through which resources are reported and services are billed.             |
| Resource Group          | The collection of resources that share the same lifecycle, permissions, and policies. |
| <b>Instance Details</b> |                                                                                       |
| Virtual machine name    | The name used for both, the virtual machine and host name.                            |

|                              |                                                                                                                                                                                                                                                                                       |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | <p><b>Note:</b> The virtual machine name cannot be changed after the virtual machine is created. You can change the host name when you log into the virtual machine.</p>                                                                                                              |
| Region                       | <p>The regional location most suitable for you and your customers.</p> <p><b>Note:</b> Some virtual machine sizes are not available in certain regions.</p>                                                                                                                           |
| Availability options         | (Optional) Additional options to help manage availability and resilience of your applications. Provides options to use replicated virtual machines in availability zones or availability settings to protect your applications and data from outages and maintenance events.          |
| Image                        | The base operating system or application for the virtual machine.                                                                                                                                                                                                                     |
| Size                         | The virtual machine size to support the workload you want to run.                                                                                                                                                                                                                     |
| <b>Administrator Account</b> |                                                                                                                                                                                                                                                                                       |
| Authentication Type          | The type of authentication the administrator uses - SSH or password.                                                                                                                                                                                                                  |
| Username                     | The administrator username for the virtual machine.                                                                                                                                                                                                                                   |
| SSH Key                      | <p>(Only available when you select SSH for Authentication Type) The single-line RSA public key or multi-line PEM certificate.</p> <p>For additional information on setting up your SSH account, see <a href="#">Create a Password for the Initial Administrator User Account</a>.</p> |
| Password                     | (Only available when you select Password for                                                                                                                                                                                                                                          |

|                  |                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------|
|                  | Authentication Type) The administrator password for the virtual machine.                                                               |
| Confirm Password | (Only available when you select Password for Authentication Type) Verification for the administrator password for the virtual machine. |

7. Click the **Disks** tab.

The **Disks** page appears.

The screenshot shows the Microsoft Azure portal interface for creating a new virtual machine. The left sidebar shows various service icons. The main page title is 'Create a virtual machine'. The 'Disks' tab is currently selected. In the 'Disk options' section, the 'OS disk type' dropdown is set to 'Standard SSD'. There is an option to 'Enable Ultra Disk compatibility (Preview)' with radio buttons for 'Yes' and 'No', where 'No' is selected. The 'Data disks' section is collapsed. At the bottom of the page, there are buttons for 'Review + create' and 'Next : Networking >'. The address bar at the top shows the full URL: 'Home > New > TenableCore Nessus (BYOL) > Create a virtual machine'.

8. On the **Disks** page, in the **Disks option** section, select an **OS disk type** from the drop-down.
9. (Optional) In the **Data disks** section, you can add and configure additional data disks or attach existing disks.
10. Click the **Networking** tab.

The **Networking** page appears.

11. In the **Virtual Network** drop-down box, select a network.
12. (Optional) Select a **Public IP** and **NIC network security group**.
13. In the **Configure network group** drop-down box, select a resource group.

**Note:** You can create a new group by clicking the **Create new** link beneath the drop-down box.

14. (Optional) Enable or disable **Accelerated networking** option.
15. (Optional) In the **Load balancing** option, select to place the virtual machine behind an existing load balancing solution.
16. Click the **Management** tab.

The **Management** page appears.

17. Enter your management preferences.

| Options          | Description                             |
|------------------|-----------------------------------------|
| Monitoring       |                                         |
| Boot diagnostics | (Optional) Enable to capture the serial |

|                                      |                                                                                                                                                       |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | console output and screenshots of the virtual machine running on a host.                                                                              |
| OS guest diagnostics                 | (Optional) Enable to receive metrics for your virtual machine.                                                                                        |
| Diagnostic storage account           | The account used to store your metrics.                                                                                                               |
| <b>Identity</b>                      |                                                                                                                                                       |
| System assigned managed identity     | (Optional) Enable to grant permissions using the Azure role-based access control.                                                                     |
| <b>Microsoft Entra ID</b>            |                                                                                                                                                       |
| Login with AAD credentials (preview) | (Optional) Enable to use your corporate Active Directory credentials to log in to the virtual machine, enforce MFA, and enable access via RBAC roles. |
| <b>Auto-shutdown</b>                 |                                                                                                                                                       |
| Enable auto-shutdown                 | (Optional) Enable to automatically shutdown your virtual machine daily.                                                                               |

18. (Optional) Click the **Advanced** tab.

The **Advanced** page appears.

19. (Optional) On the Advanced page, enter information for the **Extensions**, **Cloud init**, **Host**, and **VM generation** sections.

20. (Optional) Click the **Tags** tab.

The **Tags** page appears.

21. (Optional) On the **Tags** page, use the drop-down boxes to create tags to help categorize your resources.

---

22. Click **Review + Create**.

The **Create a virtual machine** page appears, and the system begins a validation process.

23. Click **Create**.

Azure begins the virtual machine deployment.

After the validation completes, a success message appears.

The TenableCore Tenable Nessus (BYOL) virtual machine is added to your **Resource Groups**.

What to do next:

- To complete the configuration, see [Deploy Tenable Core + Nessus in Microsoft Azure](#) in the *Tenable Core + Nessus* user guide.

**Note:** Microsoft does not require pre-approval to conduct vulnerability scans against Azure resources.

## Install Nessus on an Azure Virtual Machine

For instructions on installing Nessus, see the [Install Nessus](#) section in the *Nessus User Guide*.

## Deploy One-Click Tenable Agent

Tenable now supports a one-click deployment of the Tenable Agent via the Microsoft Azure portal. This solution provides an easy way to install the latest version of Tenable Agent on Azure virtual machines (whether Linux or Windows) by either clicking on an icon within the Microsoft Azure Portal, or by writing a few lines of PowerShell script.

Before you begin:

- Ensure you have a Tenable Vulnerability Management or Nessus Manager account.
- Ensure you have a Microsoft Azure account with one or more Windows or Linux virtual machines.

## Deploy with the Microsoft Azure Portal and Tenable Vulnerability Management user interface:

---



1. Log in to Microsoft Azure.
2. Select one of your virtual machines.
3. In the left column click **Extensions + applications**.

Search

«

 Overview

 Activity log

 Access control (IAM)

 Tags

 Diagnose and solve problems

## Settings

 Networking

 Connect

 Disks

 Size

 Microsoft Defender for Cloud

 Advisor recommendations

 Extensions + applications 

 Availability + scaling

 Configuration

 Identity

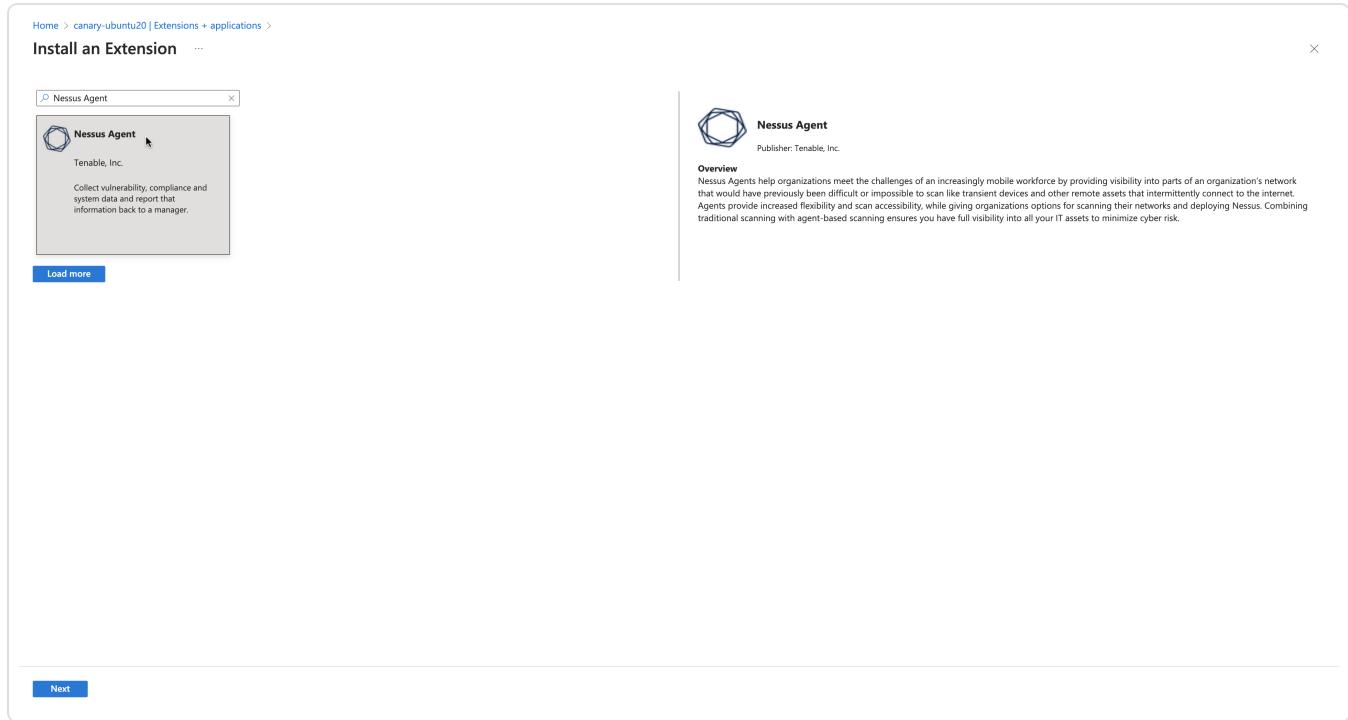
 Properties

 Locks

## Operations

4. Click **+ Add**.

5. In the gallery, scroll down to **N** (for Nessus Agent) or type *nessus* in the search bar.



6. Select the **Nessus Agent** tile and click **Next**.

7. Enter configuration parameters in the **Configure Nessus Agent Extension** user interface.

Home > canary-ubuntu20 | Extensions + applications > Install an Extension >

## Configure Nessus Agent Extension

[Create](#) [Review + create](#)

**Agent Linking**

Nessus Linking Key\* ⓘ

Link to:  Nessus Manager  Tenable Vulnerability Management

TVM Network ⓘ

**Agent Identity**

Agent Name ⓘ

Agent Group ⓘ

[Previous](#) [Next](#) [Review + create](#)

## 8. Click **Review + create**.

## Deploy from the command-line interface:

You can deploy from the command-line interface available through PowerShell. For example, you can type:

```
PS> $publisherName="Tenable.NessusAgent"
PS> $typeName="Linux" (or $typeName="Windows")
PS> $name = $publisherName + "." + $typeName
PS> $version="1.0"
```

```

PS> $Settings = @{"nessusManagerApp" = "cloud"; "nessusAgentName" = "example1";
"nessusAgentGroup" = "EXAMPLE1"}
PS> $ProtectedSettings = @{"nessusLinkingKey" =
"abcd1234vxyz5678abcd1234vxyz5678abcd1234vxyz5678abcd1234vxyz5678"}
PS> Set-AzVMEExtension -ResourceGroupName "EXAMPLE-resource-group" -Location "East US 2"
-VMName "canary-example" -Name $name -Publisher $publisherName -ExtensionType $typeName
-TypeHandlerVersion $version -Settings $Settings -ProtectedSettings $ProtectedSettings

```

**Note:** Lines 1-4 identify the one-click agent extension. Lines 5-6 in the PowerShell example are equivalent to Step 5 in the user interface procedure. This is where you enter your configuration parameters for your Nessus Agent installation.

## Nessus Linking Key

The most important field is the Nessus Linking Key (**nessusLinkingKey**). It is always required. For information on where to find the linking key, see [Retrieve the Tenable Nessus Agent Linking Key](#). In the PowerShell interface, specify **nessusLinkingKey** under **-ProtectedSettings** so that Azure encrypts it. All other fields are passed unencrypted through **-Settings**. You can choose whether to link with Tenable Nessus Manager or Tenable Vulnerability Management (formerly known as Tenable.io). Do this by setting **nessusManagerApp** (**nessusManagerApp**) to **cloud**, or to **local** in the command-line interface. You have the following two choices:

- If you choose Tenable Nessus Manager, you must provide the Tenable Nessus Manager host (**nessusManagerHost**) and port number (**nessusManagerPort**). The extension accepts an IP address or fully qualified domain name.
- If you choose **Tenable.io** (Tenable Vulnerability Management), there is an optional field called **tenableIoNetwork**.

The Agent Name (**nessusAgentName**) and Agent Group (**nessusAgentGroup**) are always optional.

**Note:** Both Agent Name and Agent Group are each a comma-separated list of group names.

For more definitions of these parameters, see [Nessuscli Agent](#).

## Parameters

| Parameter names | Equivalent Nessuscli parameters | Required |
|-----------------|---------------------------------|----------|
|-----------------|---------------------------------|----------|

---

---

|                   |                                 |     |
|-------------------|---------------------------------|-----|
| nessusLinkingKey  | --key                           | yes |
| nessusManagerApp  | N/A (unique to One-Click Agent) | yes |
| nessusManagerHost | --host                          | no  |
| nessusManagerPort | --port                          | no  |
| tenableIoNetwork  | --network                       | no  |
| nessusAgentName   | --name                          | no  |
| nessusAgentGroup  | --groups                        | no  |

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## About Tenable

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Tenable transforms security technology for the business needs of tomorrow through comprehensive solutions that provide continuous visibility and critical context, enabling decisive actions to protect your organization. Tenable eliminates blind spots, prioritizes threats, and reduces exposure and loss. With more than one million users and more than 20,000 enterprise customers worldwide, organizations trust Tenable for proven security innovation. Tenable's customers range from Fortune Global 500 companies, to the U.S. Department of Defense, to mid-sized and small businesses in all sectors, including finance, government, healthcare, higher education, retail, and energy. Transform security with Tenable, the creators of Nessus and leaders in continuous monitoring, by visiting [tenable.com](https://www.tenable.com).