

Monitor and manage performance and health In AVD

Agenda:

Section 6:

1. Monitor Azure Virtual Desktop by using Azure Monitor
2. Log Analytics workspace for Azure Monitor
3. Monitor Azure Virtual Desktop by using Azure Advisor
4. Reference: <https://www.youtube.com/watch?v=QmImuEPbov0&list=PLJBGLF8tZIXNXMv6rbiOcY6bbnmNgpbJy&index=10>

1. Monitor Azure Virtual Desktop by using Azure Monitor:

This unit will walk you through how to set up Azure Monitor for Azure Virtual Desktop to monitor your Azure Virtual Desktop environments.

Before you start using Azure Monitor for Azure Virtual Desktop, you'll need to set up the following things:

- At least one configured Log Analytics Workspace. Use a designated Log Analytics workspace for your Azure Virtual Desktop session hosts to ensure that performance counters and events are only collected from session hosts in your Azure Virtual Desktop deployment.
- Enable data collection for the following things in your Log Analytics workspace:
 - Diagnostics from your Azure Virtual Desktop environment
 - Recommended performance counters from your Azure Virtual Desktop session hosts
 - Recommended Windows Event Logs from your Azure Virtual Desktop session hosts

The data setup process described in this unit is the only one you'll need to monitor Azure Virtual Desktop. You can disable all other items sending data to your Log Analytics workspace to save costs.

Anyone monitoring Azure Monitor for Azure Virtual Desktop for your environment will also need the following read-access permissions:

- **Read-access** to the Azure subscriptions that hold your Azure Virtual Desktop resources.
- **Read-access** to the subscription's resource groups that hold your Azure Virtual Desktop session hosts.
- **Read-access** to the Log Analytics workspace or workspaces.

Section 6: AVD Monitoring

Read access only lets admins view data. They'll need different permissions to manage resources in the Azure Virtual Desktop portal.

Open Azure Monitor for Azure Virtual Desktop:

You can open Azure Monitor for Azure Virtual Desktop by doing the following:

- Go to the Azure portal.
- Search for and select Azure Monitor from the Azure portal. Select Insights Hub under Insights, then select Azure Virtual Desktop. Once you have the page open, enter the Subscription, Resource group, Host pool, and Time range of the environment you want to monitor.

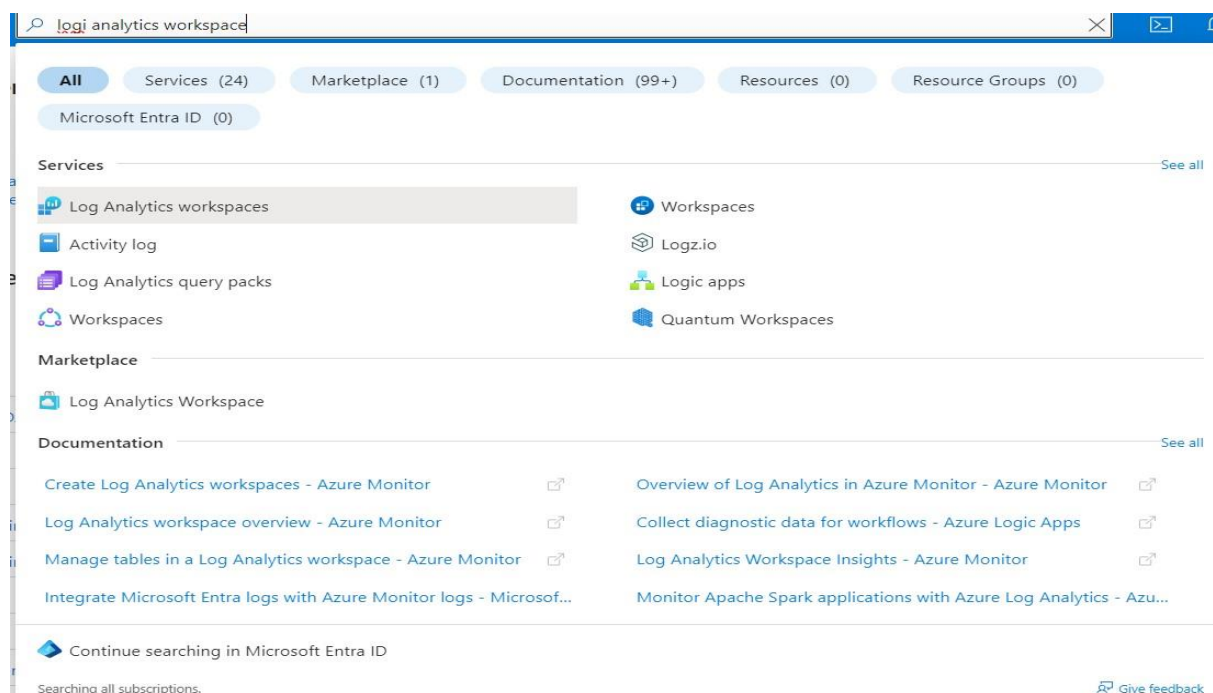
Log Analytics settings

To start using Azure Monitor for Azure Virtual Desktop, you'll need at least one Log Analytics workspace. Use a designated Log Analytics workspace for your Azure Virtual Desktop session hosts to ensure that performance counters and events are only collected from session hosts in your Azure Virtual Desktop deployment.

2. Log Analytics workspace for Azure Monitor:

To begin using Azure Monitor for Azure Virtual Desktop, you'll need at least one Log Analytics workspace.

Use a designated Log Analytics workspace for your Azure Virtual Desktop session hosts to ensure that performance counters and events are only collected from session hosts in your Azure Virtual Desktop deployment.



Section 6: AVD Monitoring

- Click to Create Log Analytics workspace

Home > Log Analytics workspaces

Default Directory (AllInOneService.world)

+ Create Open recycle bin Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Resource group equals all Location equals all Add filter

Showing 1 to 1 of 1 records. No grouping

Name ↑↓	Resource group ↑↓	Location ↑↓	Subscription ↑↓
DefaultWorkspace-388c354a-444c-43d2-876d-2e1c79b4308f-EUS	DefaultResourceGroup-EUS	East US	Free Trial

< Previous Page 1 of 1 Next >

- Give host pool Created, Resource group name
- Give any name and Region East US 2

Home > Log Analytics workspaces > Create Log Analytics workspace

Information A Log Analytics workspace is the basic management unit of Azure Monitor Logs. There are specific considerations you should take when creating a new Log Analytics workspace. [Learn more](#)

With Azure Monitor Logs you can easily store, retain, and query data collected from your monitored resources in Azure and other environments for valuable insights. A Log Analytics workspace is the logical storage unit where your log data is collected and stored.

Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Free Trial

Resource group * Domain [Create new](#)

Instance details

Name * AVDAnalytics

Region * East US 2

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

Section 6: AVD Monitoring

- Click to Create

The screenshot shows the Microsoft Azure portal interface for the AVDAnalytics Log Analytics workspace. The top navigation bar includes the Microsoft Azure logo, an Upgrade button, a search bar, and user information (Piyush@). The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Logs, Settings, Tables, Agents, Usage and estimated costs, Data export, Network isolation, Linked storage accounts, Properties, Locks, and Classic. The main content area displays the workspace details under the 'Essentials' tab. A warning message at the top states: 'The Log Analytics agents (MMA.OMS) used to collect logs from virtual machines and servers will no longer be supported from August 31, 2024. Plan to migrate to Azure Monitor Agent before this date.' Below this, the workspace details are listed: Resource group (domain), Status (Active), Location (East US 2), Subscription (Free Trial), Subscription ID (388c354a-444c-43d2-876d-2e1c79b4308f), Tags (Add tags), Workspace Name (AVDAnalytics), Workspace ID (28b9a42b-afb9-4135-abfc-88155e84ed90), Pricing tier (Pay-as-you-go), Access control mode (Use resource or workspace permissions), and Operational issues (OK). The 'Get Started' section provides a guide on how to use Log Analytics, including steps to connect data sources, configure monitoring solutions, and monitor workspace health. Useful links for documentation are also provided.

Resource diagnostic settings:

To collect information on your Azure Virtual Desktop infrastructure, you'll need to enable several diagnostic settings on your Azure Virtual Desktop host pools and workspaces (this is your Azure Virtual Desktop workspace, not your Log Analytics workspace).

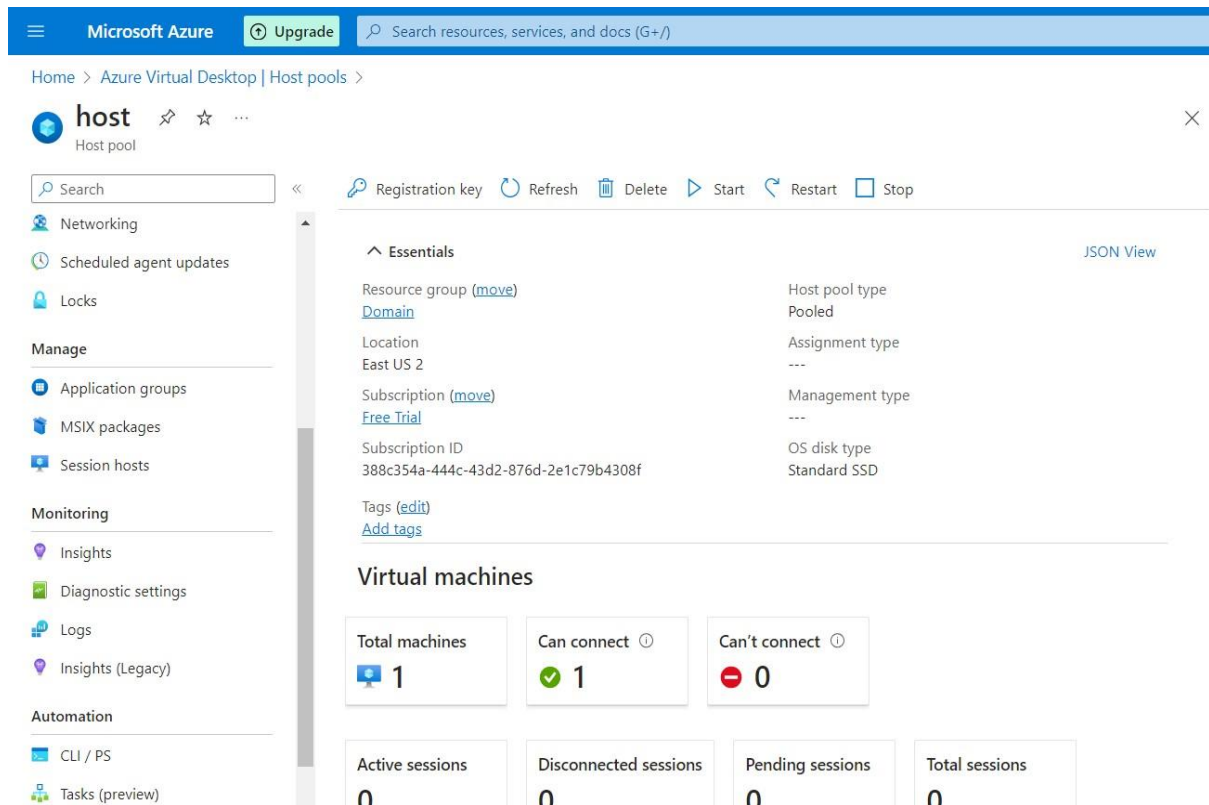
To set your resource diagnostic settings:

- Go to Created host pool

The screenshot shows the Microsoft Azure portal interface for the Azure Virtual Desktop Host pools page. The top navigation bar includes the Microsoft Azure logo, an Upgrade button, a search bar, and user information (Piyush@). The left sidebar contains a navigation menu with options like Overview, Quickstart, Manage, Host pools, Application groups, Workspaces, App attach, Scaling plans, Users, Custom image templates, Monitoring, Insights, Workbooks, and Licensing. The main content area displays the 'Host pools' page. A filter bar at the top allows filtering by subscription, resource group, location, and other criteria. Below the filter bar, a table lists the host pools. The table has columns for Name, Resource group, Location, Subscription, and Host pool type. The table shows one record: 'host' in the 'Domain' resource group, located in 'East US 2', with a 'Free Trial' subscription, and a 'Pooled' host pool type. The page also includes a 'Create' button, a 'Manage view' dropdown, and a 'Refresh' button. The bottom of the page shows pagination information: 'Page 1 of 1'.

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- Select the Diagnostic settings host pool.
- Under Monitoring, select Diagnostic settings.



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

Home > Azure Virtual Desktop | Host pools >

host Host pool

Search

Networking

Scheduled agent updates

Locks

Manage

Application groups

MSIX packages

Session hosts

Monitoring

Insights

Diagnostic settings

Logs

Insights (Legacy)

Automation

CLI / PS

Tasks (preview)

Registration key Refresh Delete Start Restart Stop

Essentials JSON View

Resource group (move) Domain

Location East US 2

Subscription (move) Free Trial

Subscription ID 388c354a-444c-43d2-876d-2e1c79b4308f

Tags (edit) Add tags

Host pool type Pooled

Assignment type ---

Management type ---

OS disk type Standard SSD

Virtual machines

Total machines 1

Can connect 1

Can't connect 0

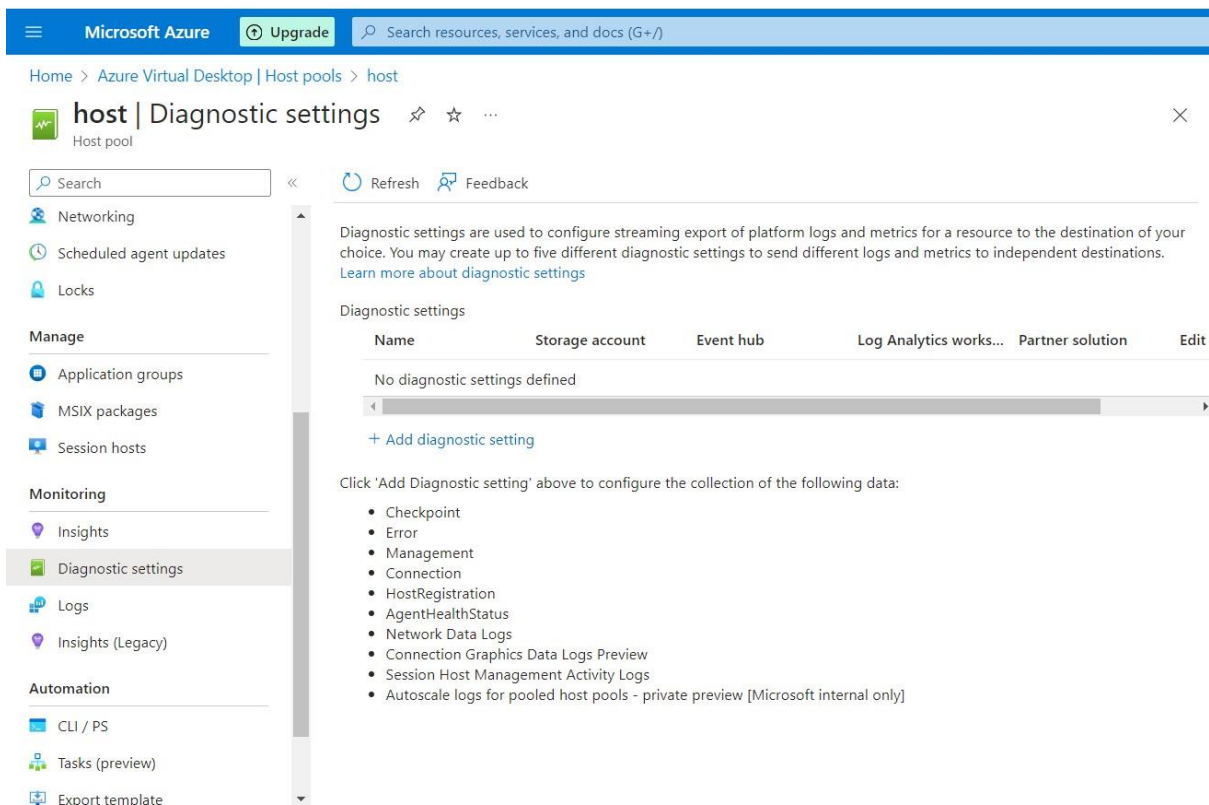
Active sessions 0

Disconnected sessions 0

Pending sessions 0

Total sessions 0

- Select Diagnostic setting



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

Home > Azure Virtual Desktop | Host pools > host

host | Diagnostic settings Host pool

Search

Networking

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CLI / PS

Tasks (preview)

Export template

Refresh Feedback

Diagnostic settings are used to configure streaming export of platform logs and metrics for a resource to the destination of your choice. You may create up to five different diagnostic settings to send different logs and metrics to independent destinations. [Learn more about diagnostic settings](#)

Diagnostic settings

Name	Storage account	Event hub	Log Analytics works...	Partner solution	Edit
No diagnostic settings defined					

+ Add diagnostic setting

Click 'Add Diagnostic setting' above to configure the collection of the following data:

- Checkpoint
- Error
- Management
- Connection
- HostRegistration
- AgentHealthStatus
- Network Data Logs
- Connection Graphics Data Logs Preview
- Session Host Management Activity Logs
- Autoscale logs for pooled host pools - private preview [Microsoft internal only]

Section 6: AVD Monitoring

Workspace diagnostic settings:

- Select Add diagnostic setting
- Give diagnostic setting name
- Click all given checkbox

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

Home > Azure Virtual Desktop | Host pools > host | Diagnostic settings >

Diagnostic setting

Save Discard Delete Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

Diagnostic setting name * AVDdia

Logs

Category groups ⓘ

☐ allLogs

Categories

☒ Checkpoint

☒ Error

☒ Management

☒ Connection

☒ HostRegistration

☒ AgentHealthStatus

Destination details

☒ Send to Log Analytics workspace

Subscription

Free Trial

Log Analytics workspace

DefaultWorkspace-388c354a-444c-43d2-876d-2e1c79b4308f-EUS (eastu...)

☐ Archive to a storage account

☐ Stream to an event hub

☐ Send to partner solution

- Click Save

host | Diagnostic settings Host pool

Search Refresh Feedback

Networking

Scheduled agent updates

Locks

Manage

Application groups

MSIX packages

Session hosts

Monitoring

Insights

Diagnostic settings

Logs

Insights (Legacy)

Automation

CLI / PS

Tasks (preview)

Export template

Diagnostic settings are used to configure streaming export of platform logs and metrics for a resource to the destination of your choice. You may create up to five different diagnostic settings to send different logs and metrics to independent destinations. [Learn more about diagnostic settings](#)

Diagnostic settings

Name	Storage account	Event hub	Log Analytics works...	Part
AVDdia	-	-	DefaultWorkspace-388	-

+ Add diagnostic setting

Click 'Add Diagnostic setting' above to configure the collection of the following data:

- Checkpoint
- Error
- Management
- Connection
- HostRegistration
- AgentHealthStatus
- Network Data Logs
- Connection Graphics Data Logs Preview
- Session Host Management Activity Logs
- Autoscale logs for pooled host pools - private preview [Microsoft internal only]

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1. Under Workspace, check to see whether Azure Virtual Desktop diagnostics are enabled for the Azure Virtual Desktop workspace. If they aren't, an error message will appear that says "No existing diagnostic configuration was found for the selected workspace." You'll need to enable the following supported diagnostics tables:
 - Checkpoint
 - Error
 - Management
 - Feed
2. Select Configure workspace.
3. Select Deploy.
4. Refresh the configuration workbook.

Session host data settings:

To collect information on your Azure Virtual Desktop session hosts, you'll need to install the Log Analytics agent on all session hosts in the host pool, make sure the session hosts are sending to a Log Analytics workspace, and configure your Log Analytics agent settings to collect performance data and Windows Event Logs.

The Log Analytics workspace you send session host data to doesn't have to be the same one you send diagnostic data to. If you have Azure session hosts outside of your Azure Virtual Desktop environment, we recommend having a designated Log Analytics workspace for the Azure Virtual Desktop session hosts.

To set the Log Analytics workspace where you want to collect session host data:

1. Select the Session host data settings tab in the configuration workbook.
2. Select the Log Analytics workspace you want to send session host data to.

Session hosts:

You'll need to install the Log Analytics agent on all session hosts in the host pool and send data from those hosts to your selected Log Analytics workspace. If Log Analytics isn't configured for all the session hosts in the host pool, you'll see a Session hosts section at the top of Session host data settings with the message "Some hosts in the host pool are not sending data to the selected Log Analytics workspace."

To set up your remaining session hosts using the configuration workbook:

1. Select Add hosts to workspace.
2. Refresh the configuration workbook.

Workspace performance counters

You'll need to enable specific performance counters to collect performance information from your session hosts and send it to the Log Analytics workspace.

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To set up performance counters using the configuration workbook:

1. Under Workspace performance counters in the configuration workbook, check Configured counters to see the counters you've already enabled to send to the Log Analytics workspace. Check Missing counters to make sure you've enabled all required counters.
2. If you have missing counters, select Configure performance counters.
3. Select Apply Config.
4. Refresh the configuration workbook.
5. Make sure all the required counters are enabled by checking the Missing counters list.

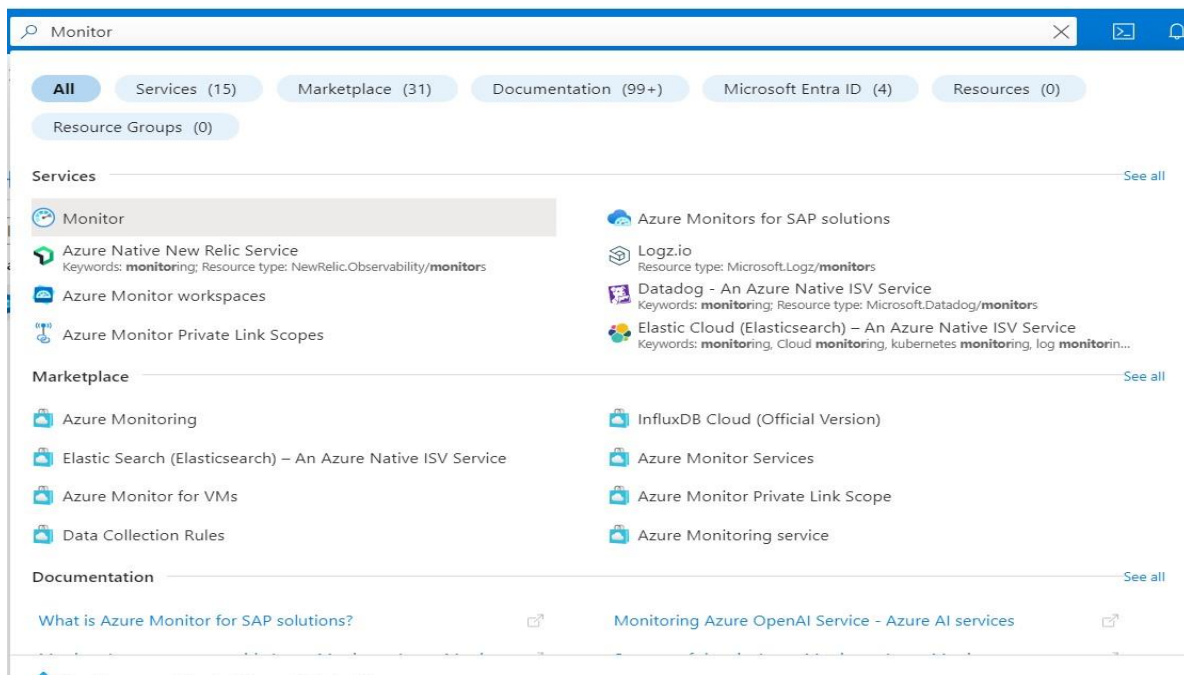
Configure Windows Event Logs:

You'll also need to enable specific Windows Event Logs to collect errors, warnings, and information from the session hosts and send them to the Log Analytics workspace.

To set up Windows Event Logs using the configuration workbook:

1. Under Windows Event Logs configuration, check Configured Event Logs to see the Event Logs you've already enabled to send to the Log Analytics workspace. Check Missing Event Logs to make sure you've enabled all Windows Event Logs.
2. If you have missing Windows Event Logs, select Configure Events.
3. Select Deploy.
4. Refresh the configuration workbook.
5. Make sure all the required Windows Event Logs are enabled by checking the Missing Event Logs list.

- Go to azure portal search Monitoring



Section 6: AVD Monitoring

- Click to Virtual Machine to Enable Monitoring

Microsoft Azure Upgrade Search resources, services, and docs (G+J) Piyush@nikhilkos...
Home > Monitor
Monitor | Virtual Machines
Search Refresh Provide Feedback
Filter by name... Subscription: Free Trial Resource group: All resource groups Type: All types Location: All locations
Group by: Subscription, Resource group
Monitored (0) Not monitored (6) Workspace configuration Other onboarding options
Name Monitor Coverage Workspace
Free Trial 6 of 6
> aniket_group 1 of 1
domain 2 of 2
Domain1 Not enabled Enable
jumpin-0 Not enabled Enable
> nikhil 1 of 1
> res-group-1853 1 of 1
> wvd 1 of 1

- Click Enable

Azure Monitor

Insights Onboarding

Get more visibility into the health and performance of your virtual machine

With an Azure virtual machine you get host CPU, disk and up/down state of your VMs out of the box. Enabling additional monitoring capabilities provides insights into the performance and dependencies for your virtual machines.

You will be billed based on the amount of data ingested and your data retention settings. It can take between 5-10 minutes to configure the virtual machine and the monitoring data to appear.



i The map data set collected with Azure Monitor for VMs is intended to be infrastructure data about the resources being deployed and monitored. For details on data collected please [click here](#).

Enable

! Having difficulties enabling Azure Monitors for VM? [Troubleshoot](#)

Section 6: AVD Monitoring

- Click to Configure

Monitoring configuration

VM Insights now supports data collection using the Azure Monitor Agent and data collection rules.

Subscription *	Free Trial
Data collection rule ⓘ	(new) MSVMI-DefaultWorkspace-388c354a-444c-43d2-876d-2e1c79b430...
	Create New
	MSVMI-DefaultWorkspace-388c354a-444c-43d2-876d-2e1c79b4308f-EUS
Guest performance	Enabled
Processes and dependencies (Map)	Disabled
Log Analytics workspace	DefaultWorkspace-388c354a-444c-43d2-876d-2e1c79b4308f-EUS

i This will also enable System Assigned Managed Identity, in addition to existing User Assigned identities (if any).
Note: Unless specified in the request, the machine will default to using System Assigned Identity. [Learn More](#)
Currently, only resources in certain regions are supported. [Learn More](#)

[Configure](#) [Cancel](#)

- Now its enable

The screenshot shows the Microsoft Azure Monitor interface for Virtual Machines. The left sidebar contains navigation options: Overview, Activity log, Alerts, Metrics, Logs, Change Analysis, Service health, Workbooks, Insights, Applications, Virtual Machines (selected), Storage accounts, Containers, Networks, SQL (preview), and Azure Cosmos DB. The main content area is titled 'Monitor | Virtual Machines' and includes a search bar, refresh button, and feedback link. Below this, there are tabs for 'Get started', 'Overview' (selected), 'Performance', and 'Map'. A filter bar shows 'Subscription: Free Trial', 'Resource group: All resource groups', 'Type: All types', and 'Location: All locations'. A 'Group by' dropdown is set to 'Subscription, Resource group'. The 'Monitored (2)' tab is active, displaying a table with columns for Name, Monitor Coverage, and Data collection rule.

Name	Monitor Coverage	Data collection rule
Free Trial	2 of 6	
domain	2 of 2	
Domain1	Enabled	MSVMI-DefaultWorkspace-388c354a-444c-43d2-87...
jumpin-0	Enabled	MSVMI-DefaultWorkspace-388c354a-444c-43d2-87...

Section 6: AVD Monitoring

- Go to Azure virtual Desktop, created Host pool
- Click to Insights

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

Home > host Host pool

Search

Registration key Refresh Delete Start Restart Stop

Essentials

Resource group (move) : Domain Host pool type : Pooled
Location : East US 2 Assignment type : ---
Subscription (move) : Free Trial Management type : ---
Subscription ID : 388c354a-444c-43d2-876d-2e1c79b4308f OS disk type : Standard SSD
Tags (edit) : Add tags

Virtual machines

Total machines	Can connect	Can't connect
1	1	0

Active sessions	Disconnected sessions	Pending sessions	Total sessions
0	0	0	0

Applications

- Click to Open Configuration Workbook

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

Home > host | Insights Host pool

Search

Workbooks Customize Auto refresh: Off

Time Range: Last 48 hours

Azure Monitor is not configured for session hosts.

Open Docs

Open Configuration Workbook

Go to AVD Insights legacy

Section 6: AVD Monitoring

- We can see here all Data For Monitoring in Avd

The screenshot shows the Azure portal interface for monitoring AVD configurations. The top navigation bar includes the Microsoft Azure logo, an 'Upgrade' button, and a search bar. The breadcrumb trail indicates the path: Home > Azure Virtual Desktop | Host pools > host | Insights > CheckAMAConfiguration.

The main content area is titled 'Host pool host' and displays diagnostic settings for the host pool. The settings are organized into a table with columns: Name, Workspace, Category group, Table, Required, and Enabled. The table lists several diagnostic settings for the host pool, including AVDDia, AVDDia, AVDDia, AVDDia, AVDDia, and AVDDia, all of which are enabled and required.

Below the host pool settings, there is a section for 'Workspace Work' which displays diagnostic settings for the workspace. The settings are organized into a table with columns: Name, Workspace, Category group, Table, Required, and Enabled. The table lists several diagnostic settings for the workspace, including AVDDia, AVDDia, AVDDia, AVDDia, AVDDia, and AVDDia, all of which are enabled and required.

The 'Data Generated' section shows the billed data over the last 24 hours and last 48 hours. The 'Billed data over last 24hrs' section displays a donut chart showing 0 MB of data. The 'Billed data over Last 48 hours' section displays a message: 'no records found to total'.

3. Monitor Azure Virtual Desktop by using Azure Advisor:

Whenever you come across an issue in Azure Virtual Desktop, always check Azure Advisor first. Azure Advisor will give you directions for how to solve the problem, or at least point you towards a resource that can help.

This unit will tell you how to set up Azure Advisor in your Azure Virtual Desktop deployment to help your users.

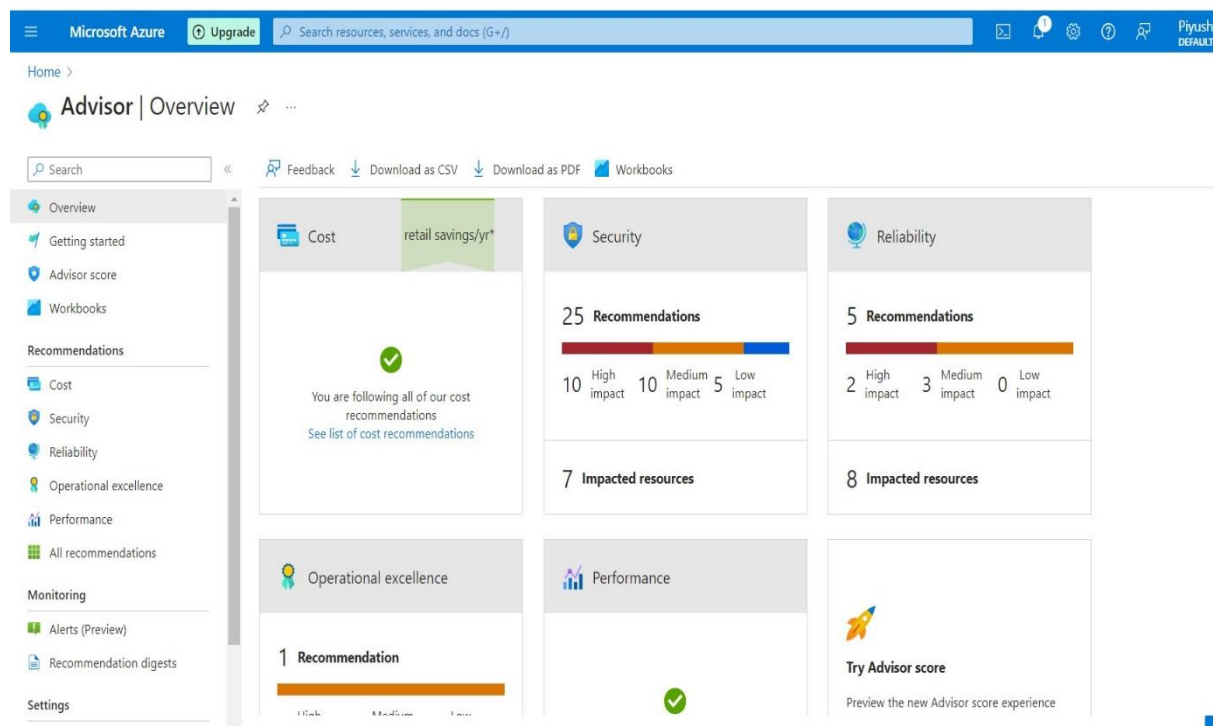
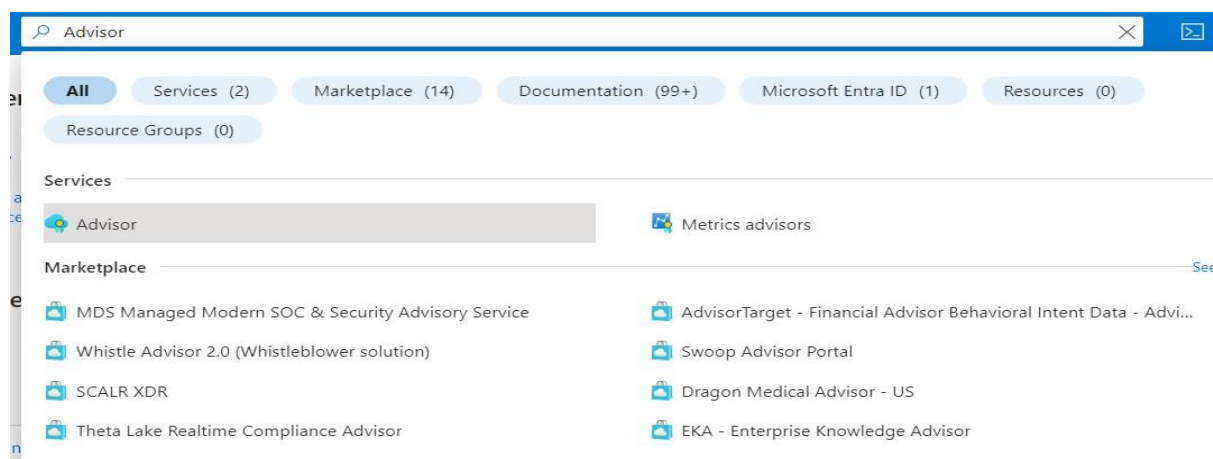
What is Azure Advisor?

Azure Advisor analyzes your configurations and telemetry to offer personalized recommendations to solve common problems. With these recommendations, you can optimize your Azure resources for reliability, security, operational excellence, performance, and cost.

How to start using Azure Advisor:

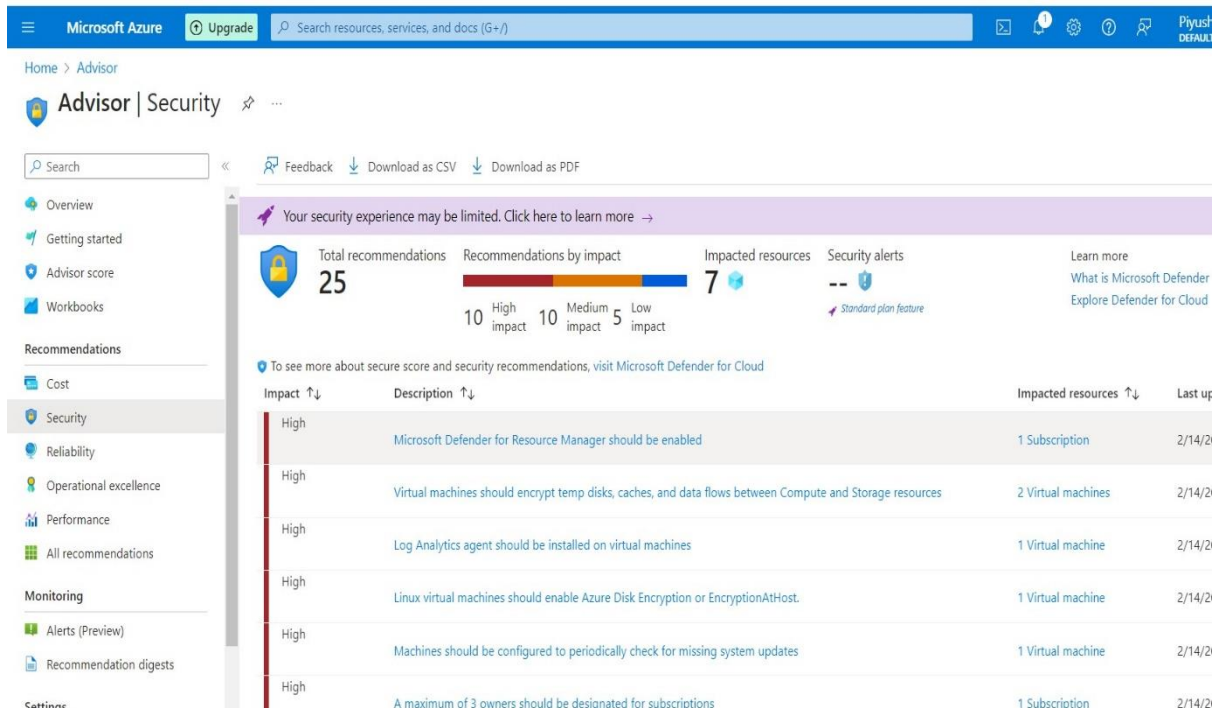
All you need to get started is an Azure account on the Azure portal. First, open the Azure portal then select **Advisor** under **Azure Services**, as shown in the following image. You can also enter "Azure Advisor" into the search bar in the Azure portal.

- Go to Azure Portal → Search **Advisor**



When you open Azure Advisor, you'll see five categories:

- Cost
- Security
- Reliability
- Operational Excellence
- Performance



Additional tips for Azure Advisor:

- Make sure to check your recommendations frequently, at least more than once a week. Azure Advisor updates its active recommendations multiple times per day. Checking for new recommendations can prevent larger issues by helping you spot and solve smaller ones.
- Always try to solve the issues with the highest priority level in Azure Advisor. High priority issues are marked with red. Leaving high-priority recommendations unresolved can lead to problems down the line.
- If a recommendation seems less important, you can dismiss it or postpone it.
- Don't dismiss recommendations until you know why they're appearing and are sure it won't have a negative impact on you or your users.