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=PLJBGLF8tZlXNXMv6rbiOcY6bbnmNgpbJy&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.

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.

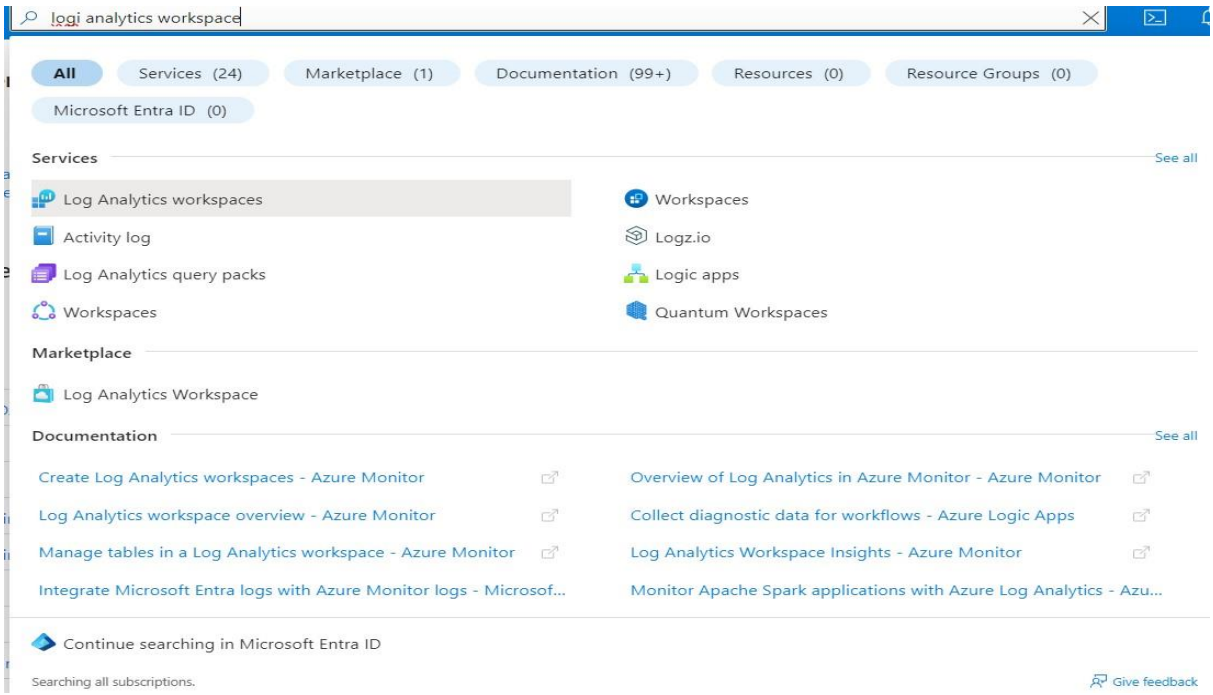
Log Analytics settings

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.



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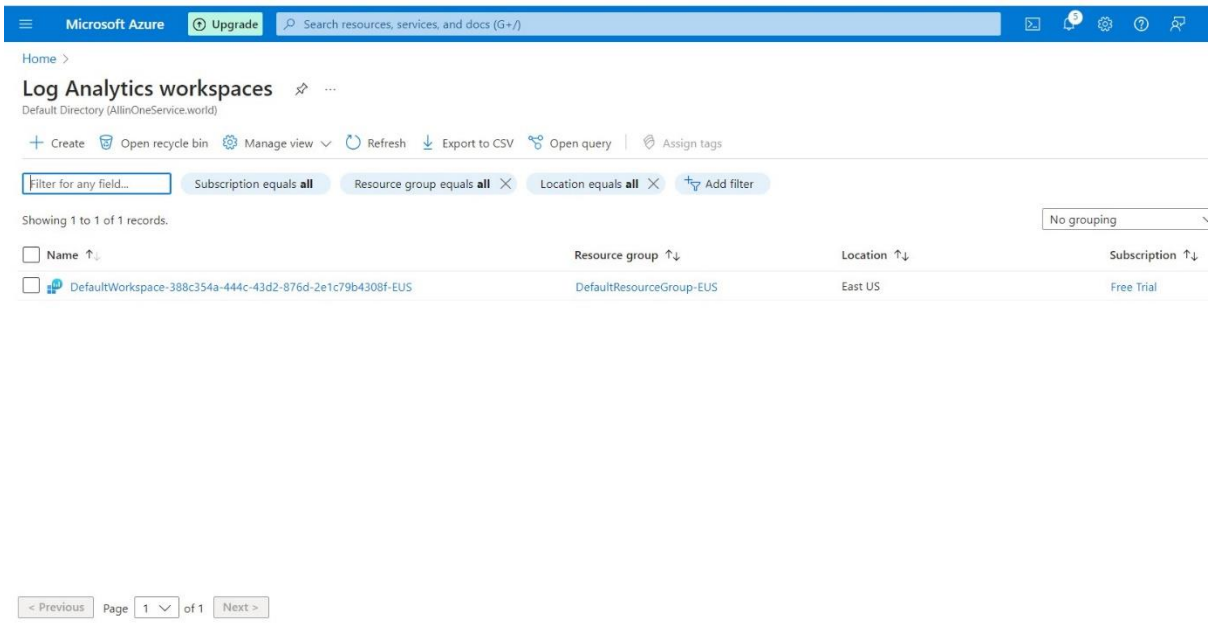
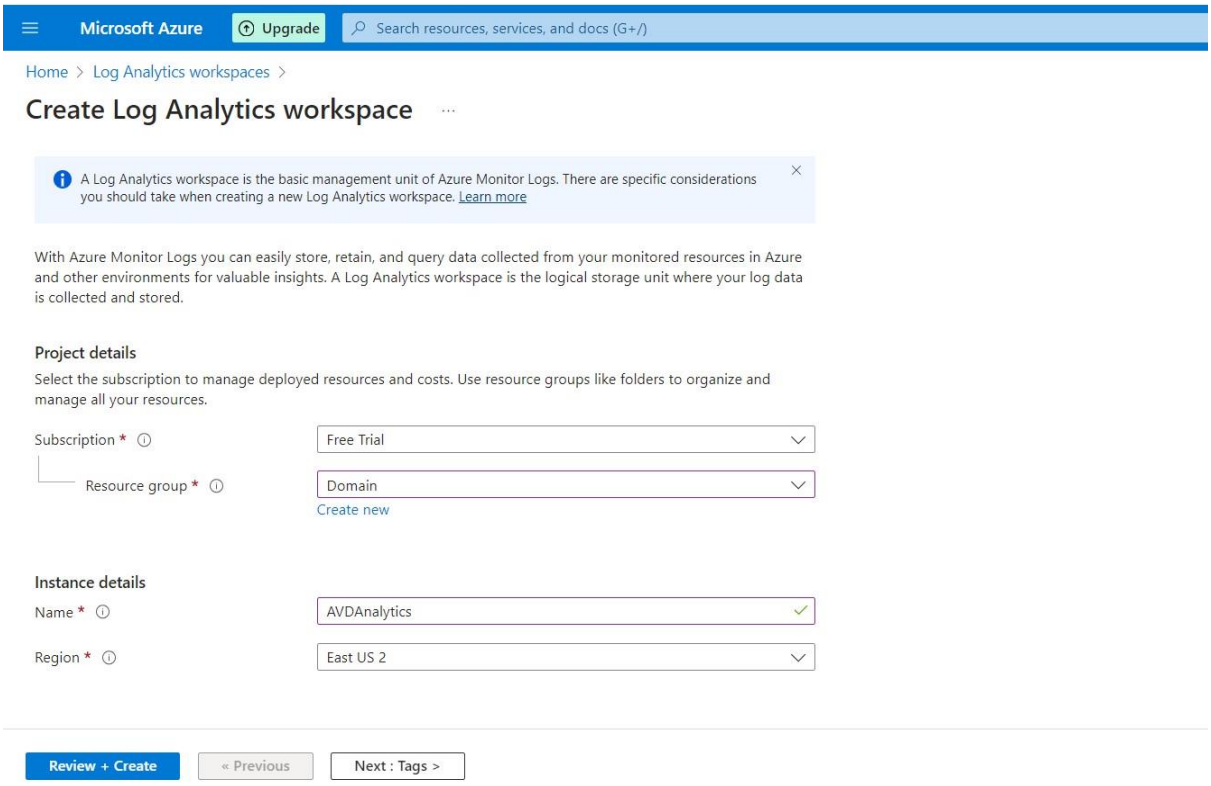
- Click to Create Log Analytics workspace



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



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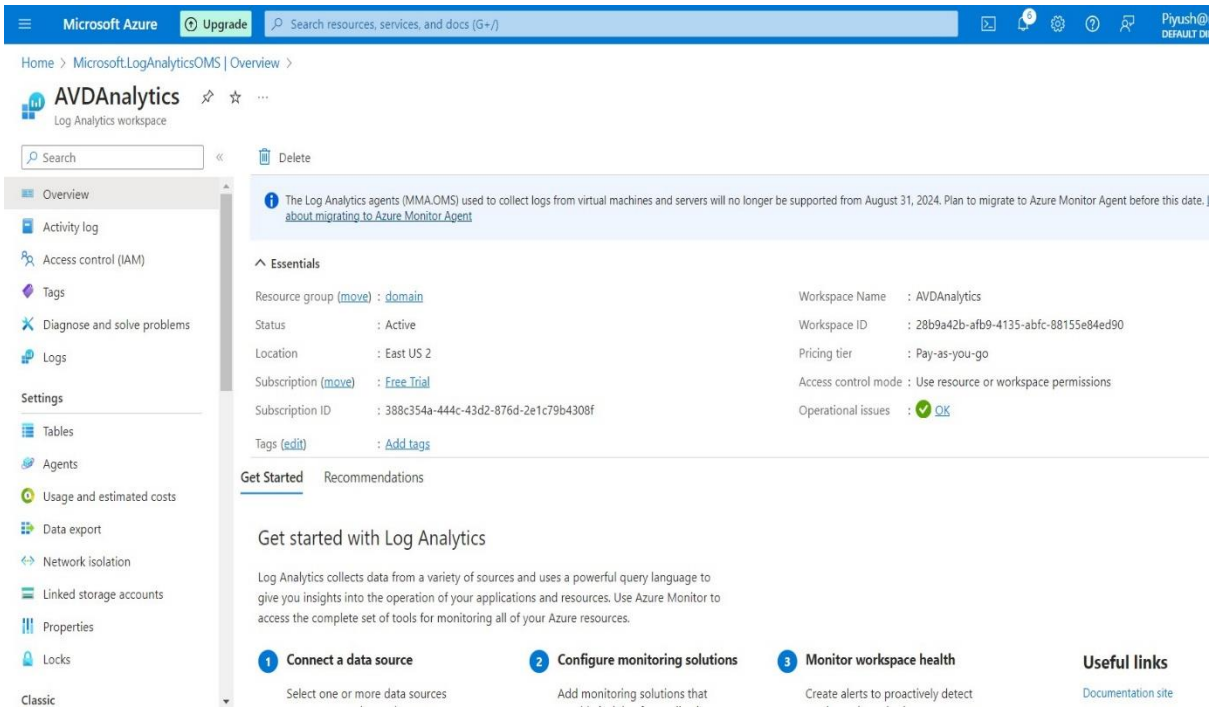
- Click to Create

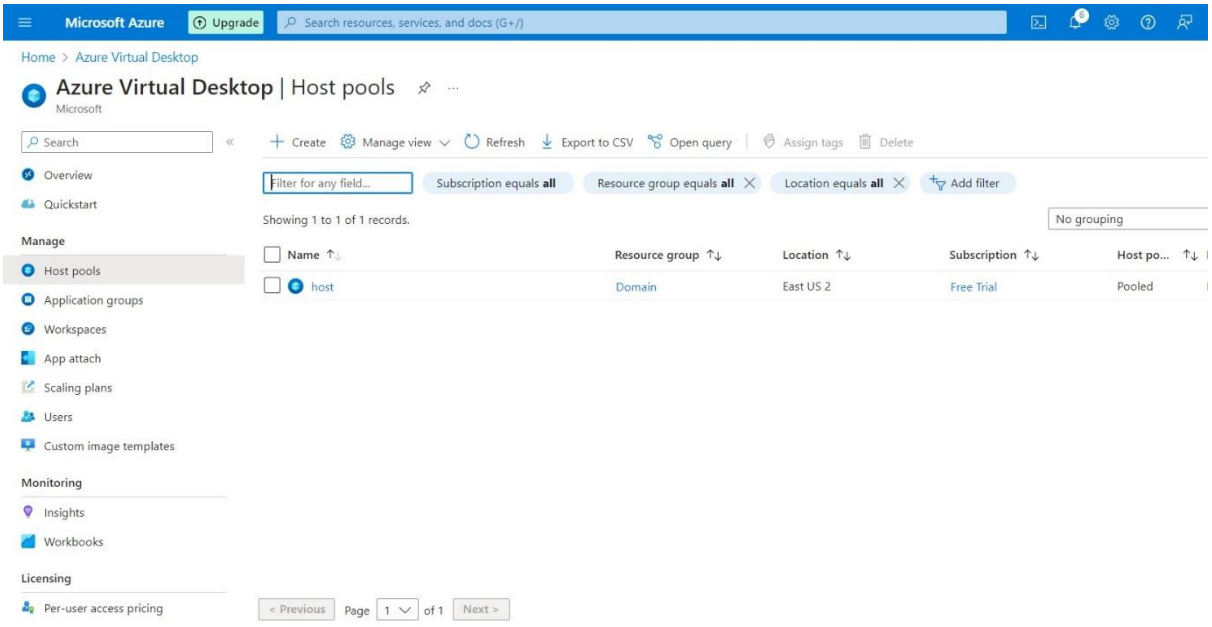


Resource diagnostic settings:

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



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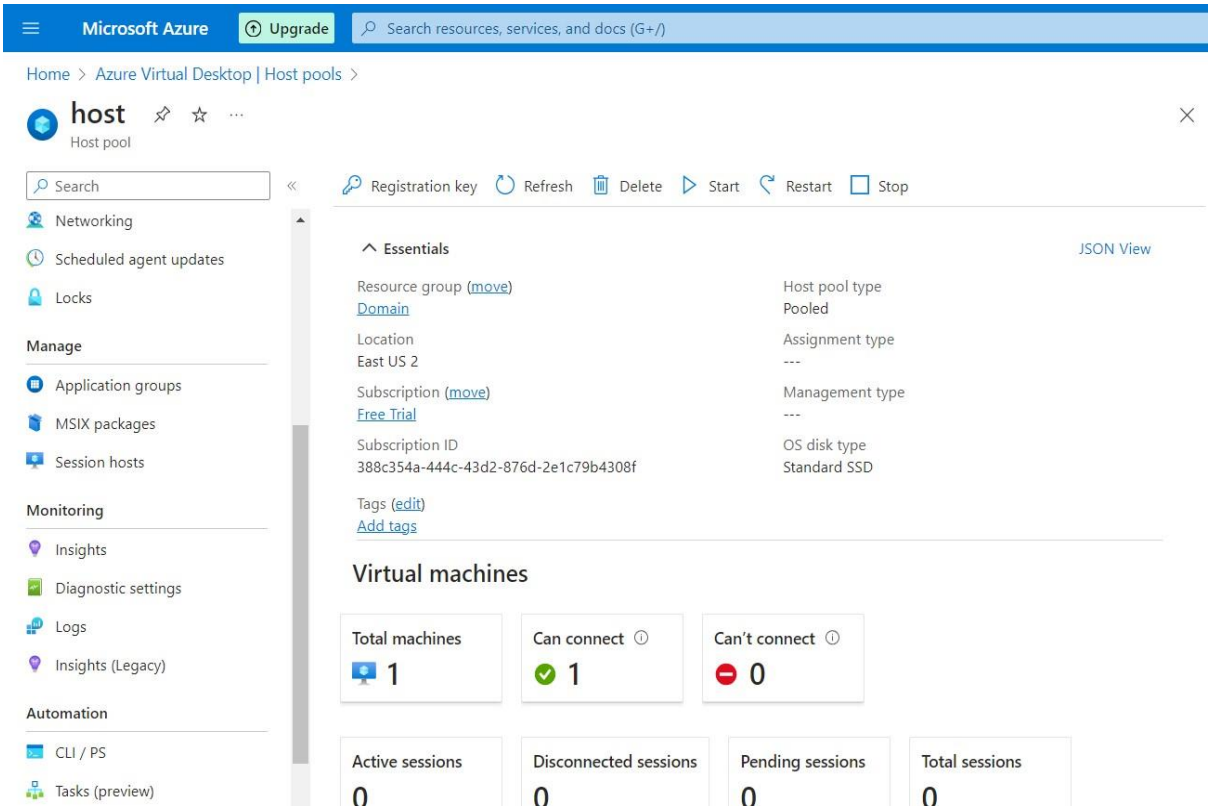
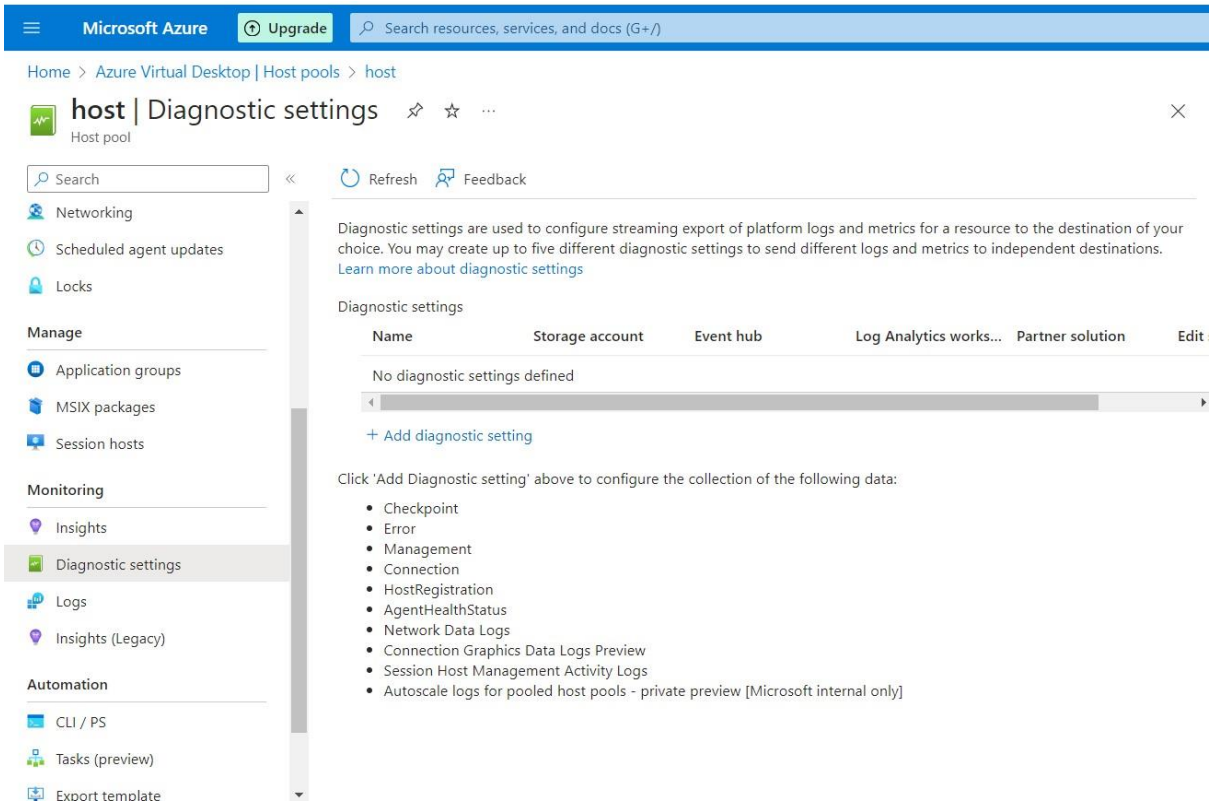
- Select the Diagnostic settings host pool.
- Under Monitoring, select Diagnostic settings.



- Select Diagnostic setting



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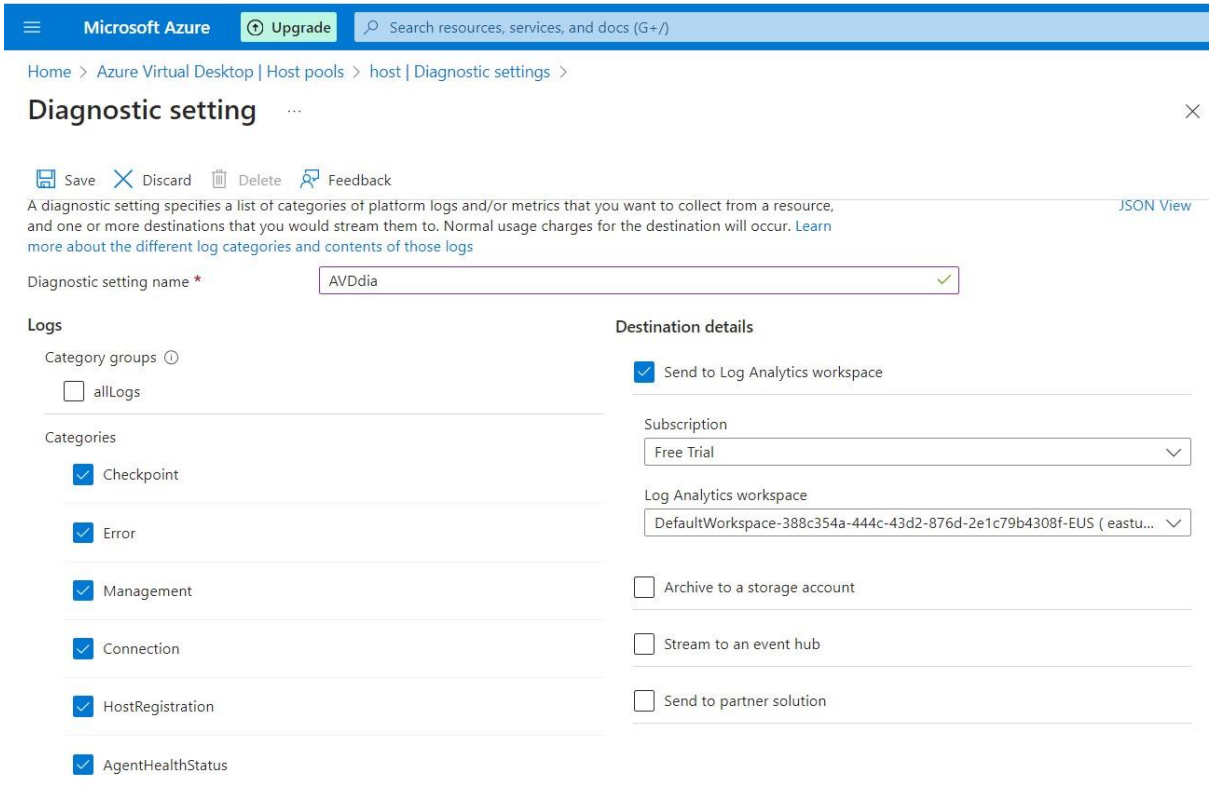
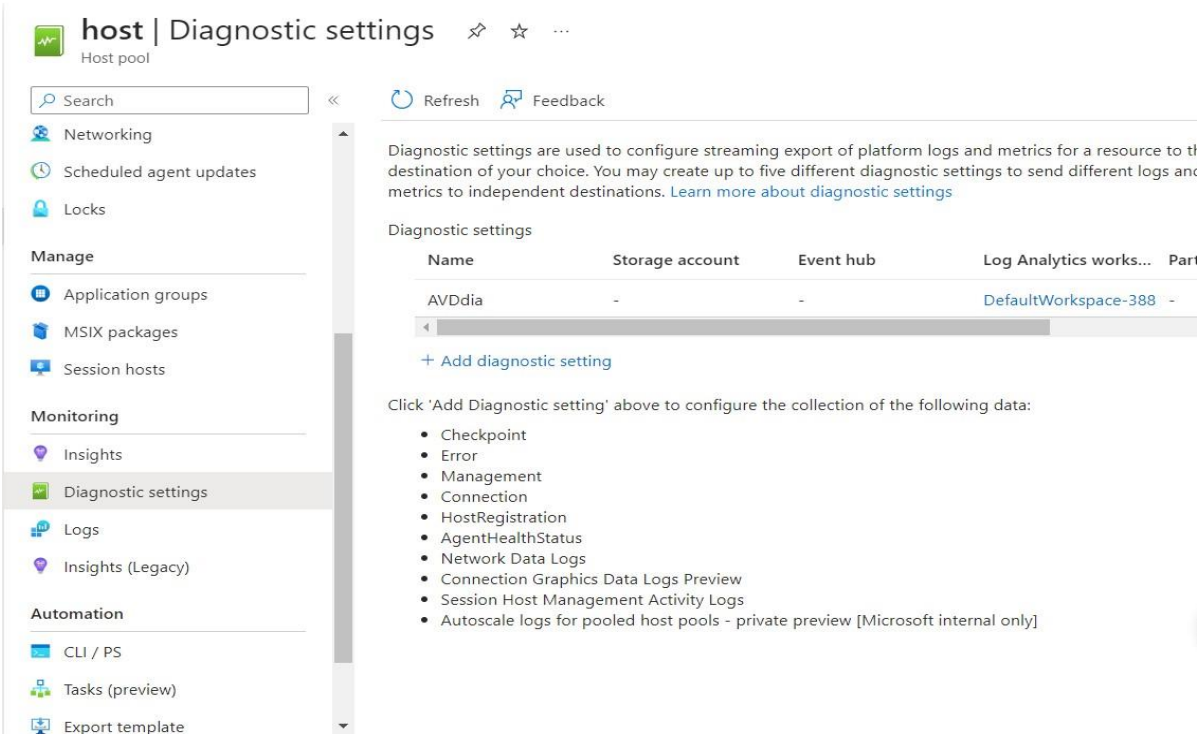
Workspace diagnostic settings:

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



- Click Save



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.

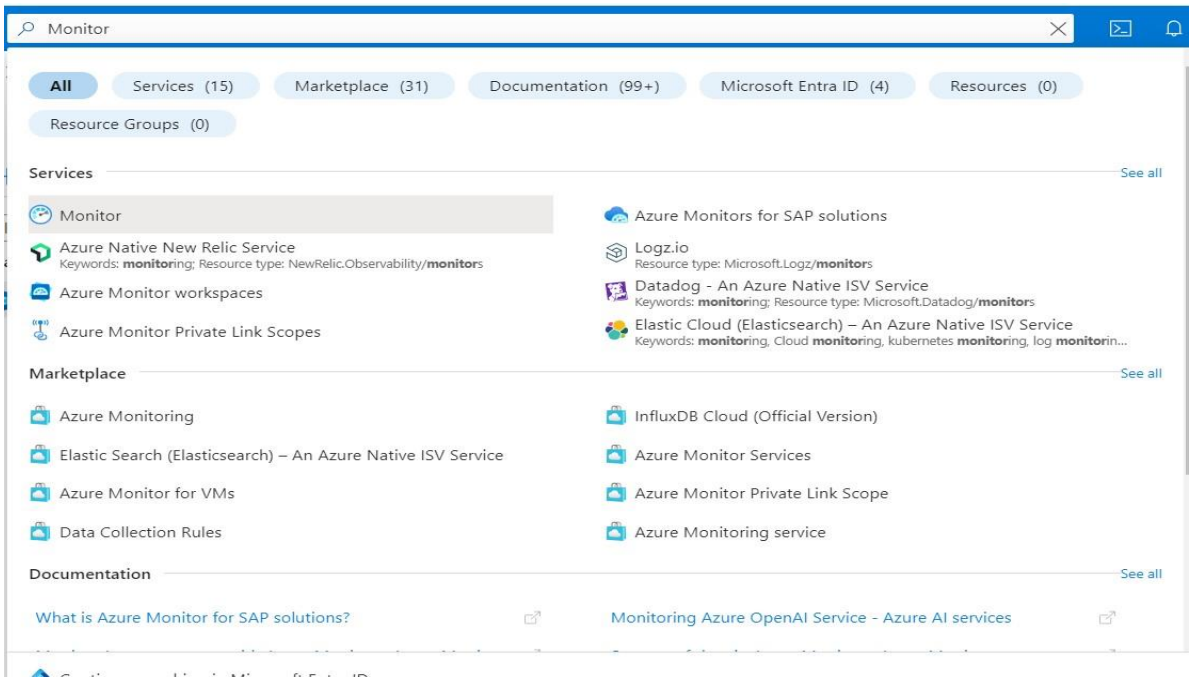
Configure Windows Event Logs:

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



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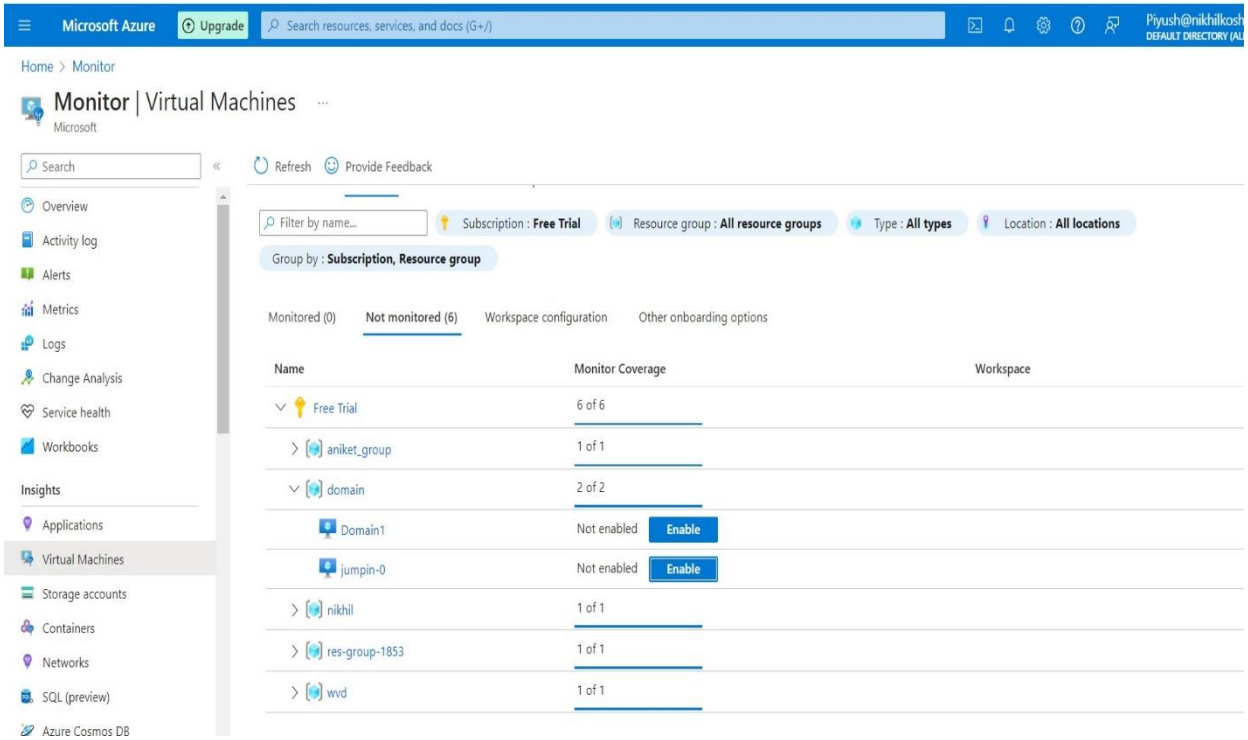
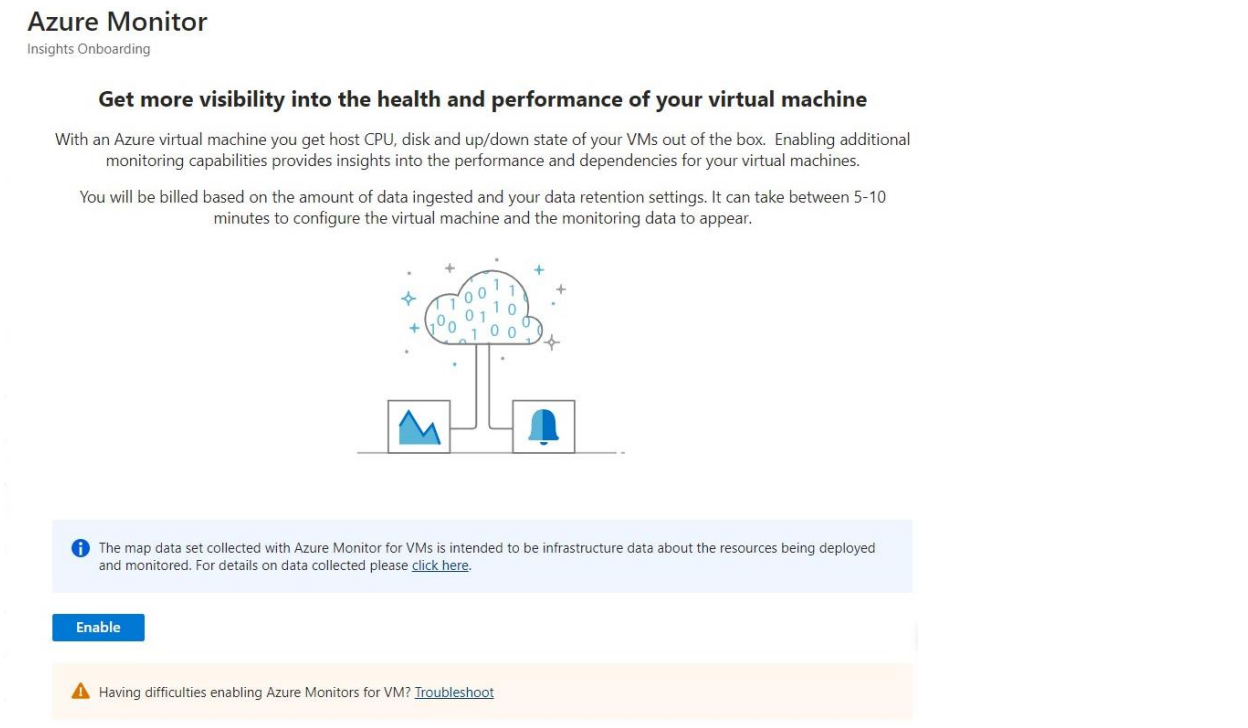
- Click to Virtual Machine to Enable Monitoring



- Click Enable



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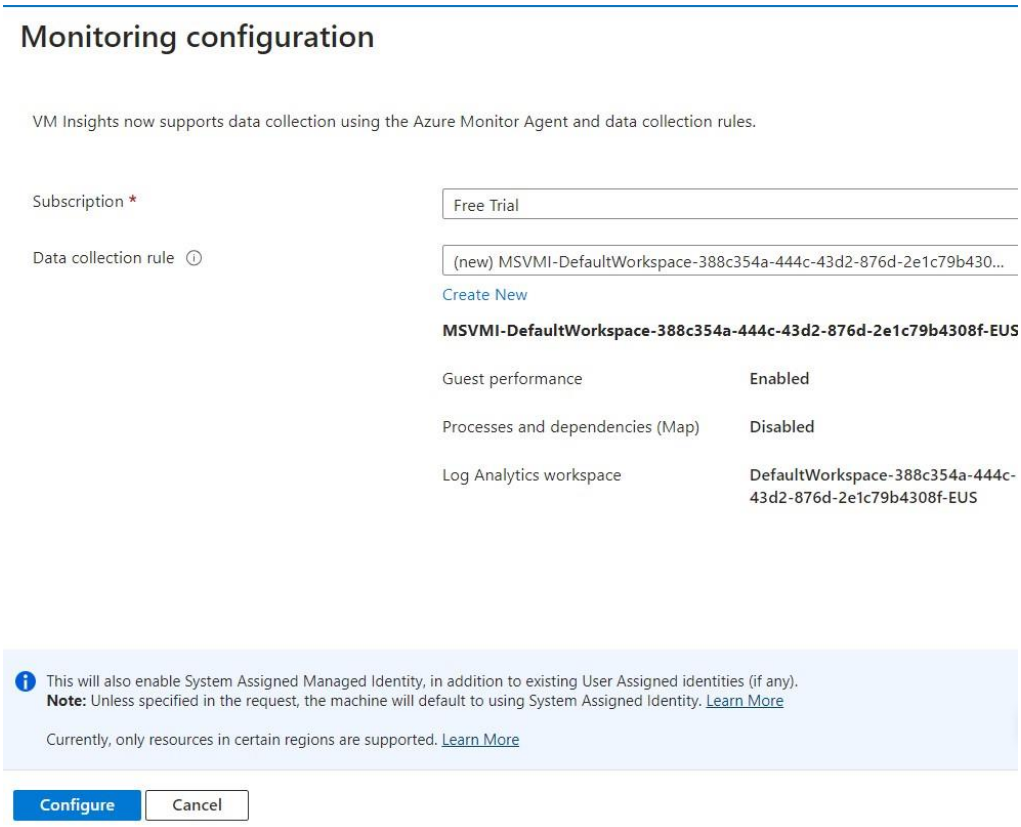
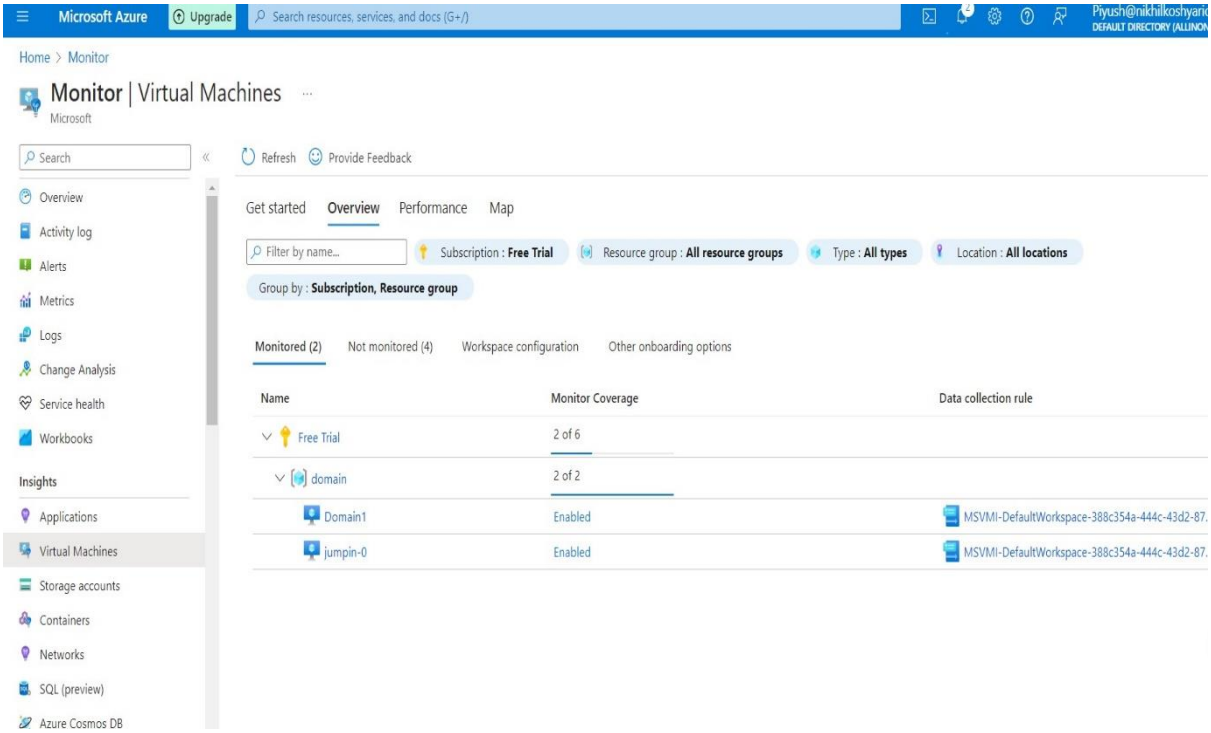
- Click to Configure



- Now its enable



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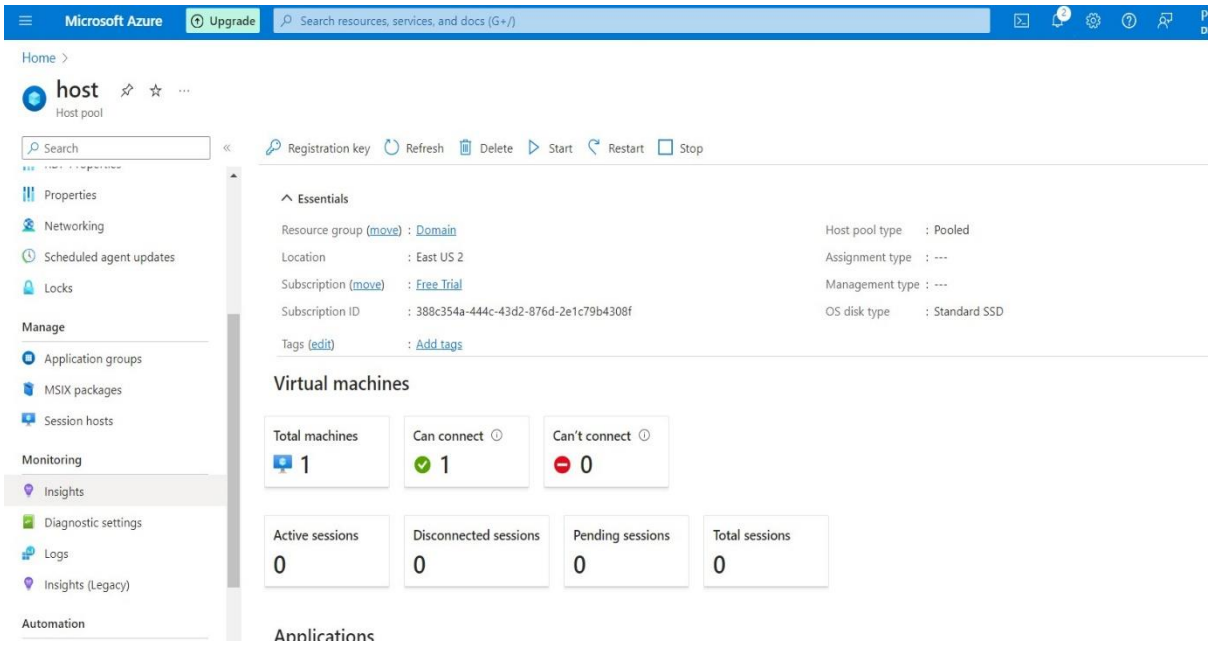
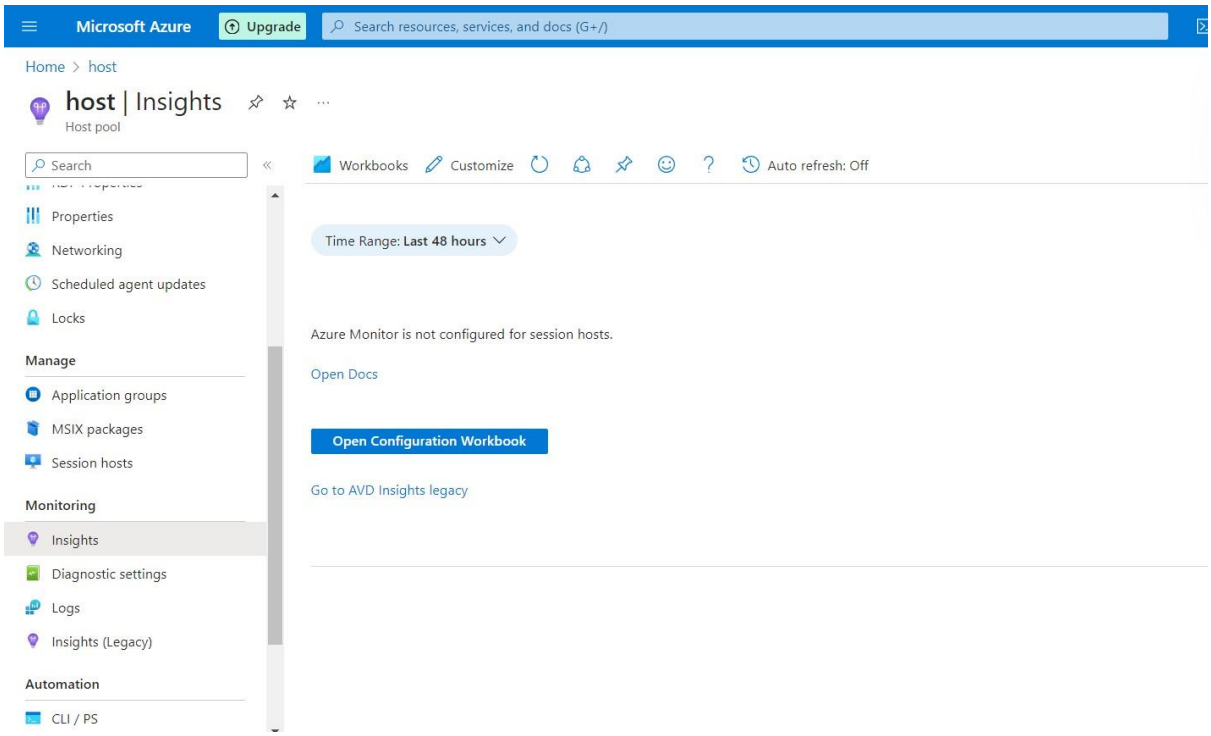
- Go to Azure virtual Desktop, created Host pool
- Click to Insights



- Click to Open Configuration Workbook



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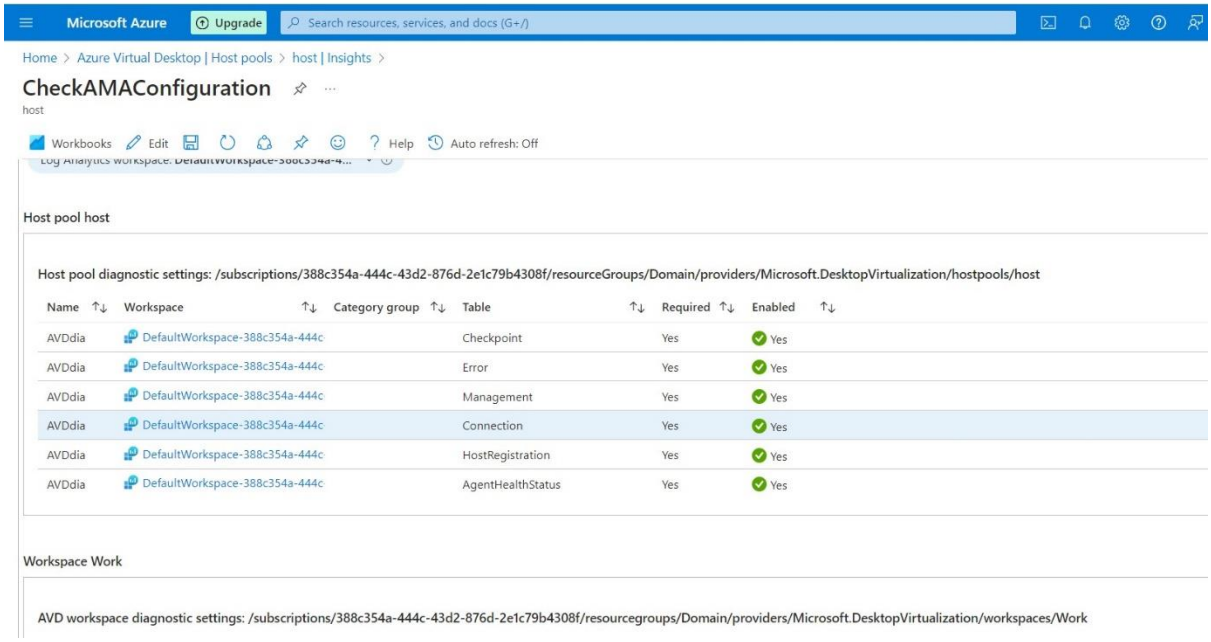
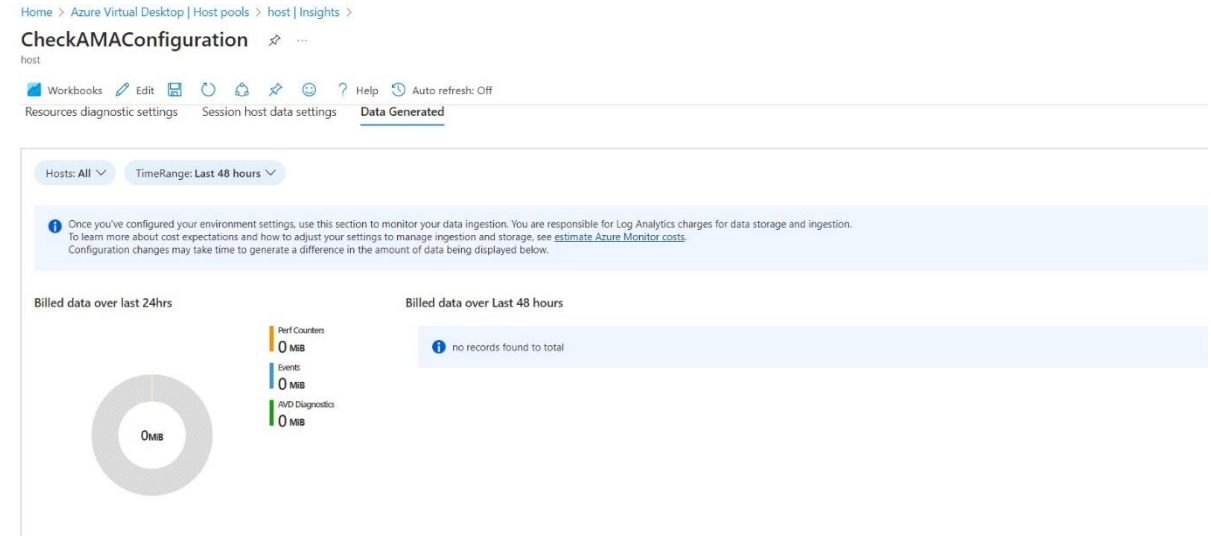
- We can see here all Data For Monitoring in Avd





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.

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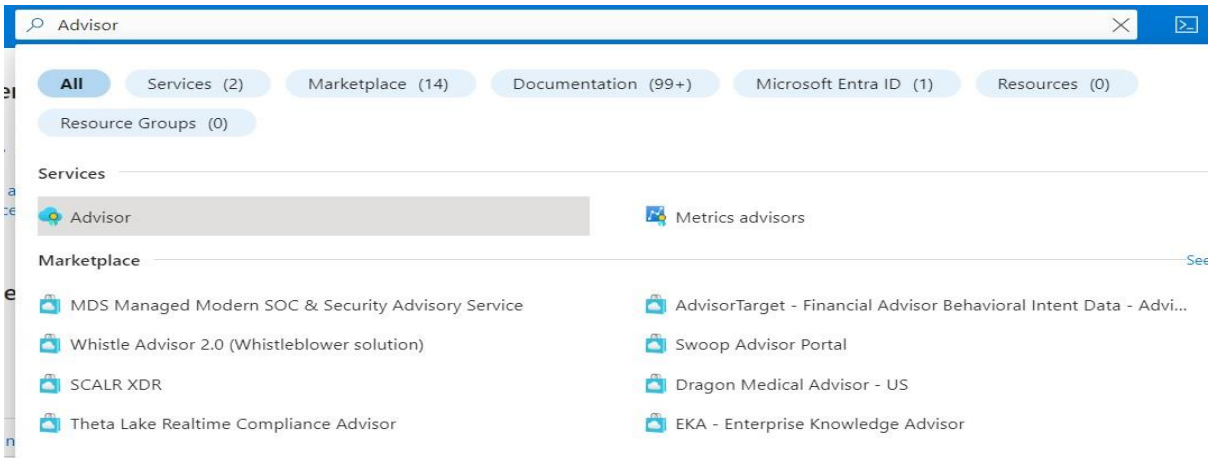
What is Azure Advisor?

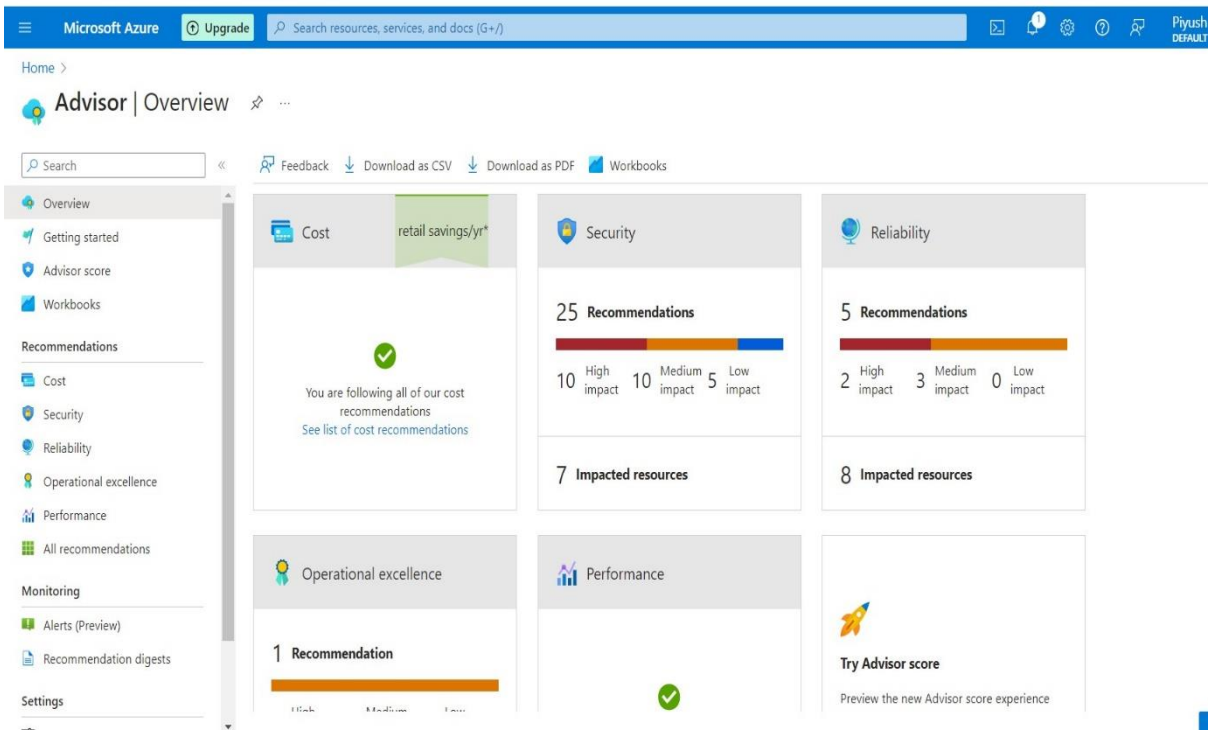
Azure Advisor analyzes your configurations and telemetry to offer personalized recommendations to solve common problems. With these recommendations, you can optimize your Azure resources for reliability, security, operational excellence, performance, and cost.

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**





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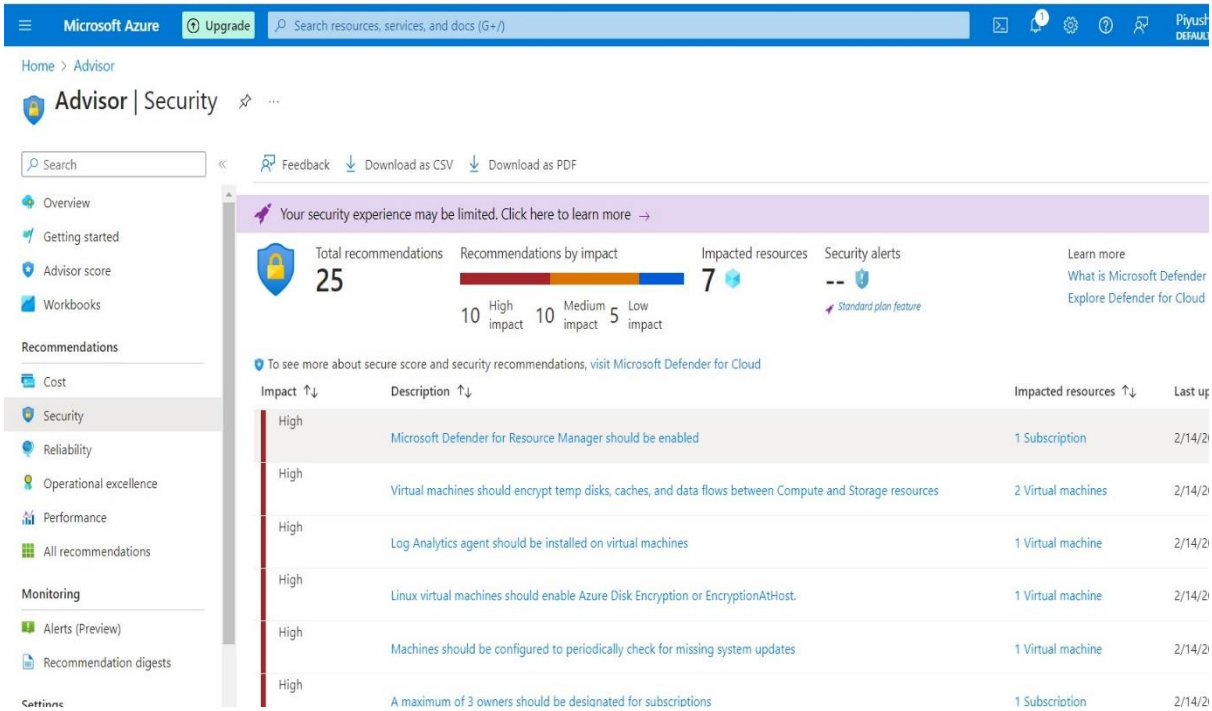
When you open Azure Advisor, you'll see five categories:

- 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.