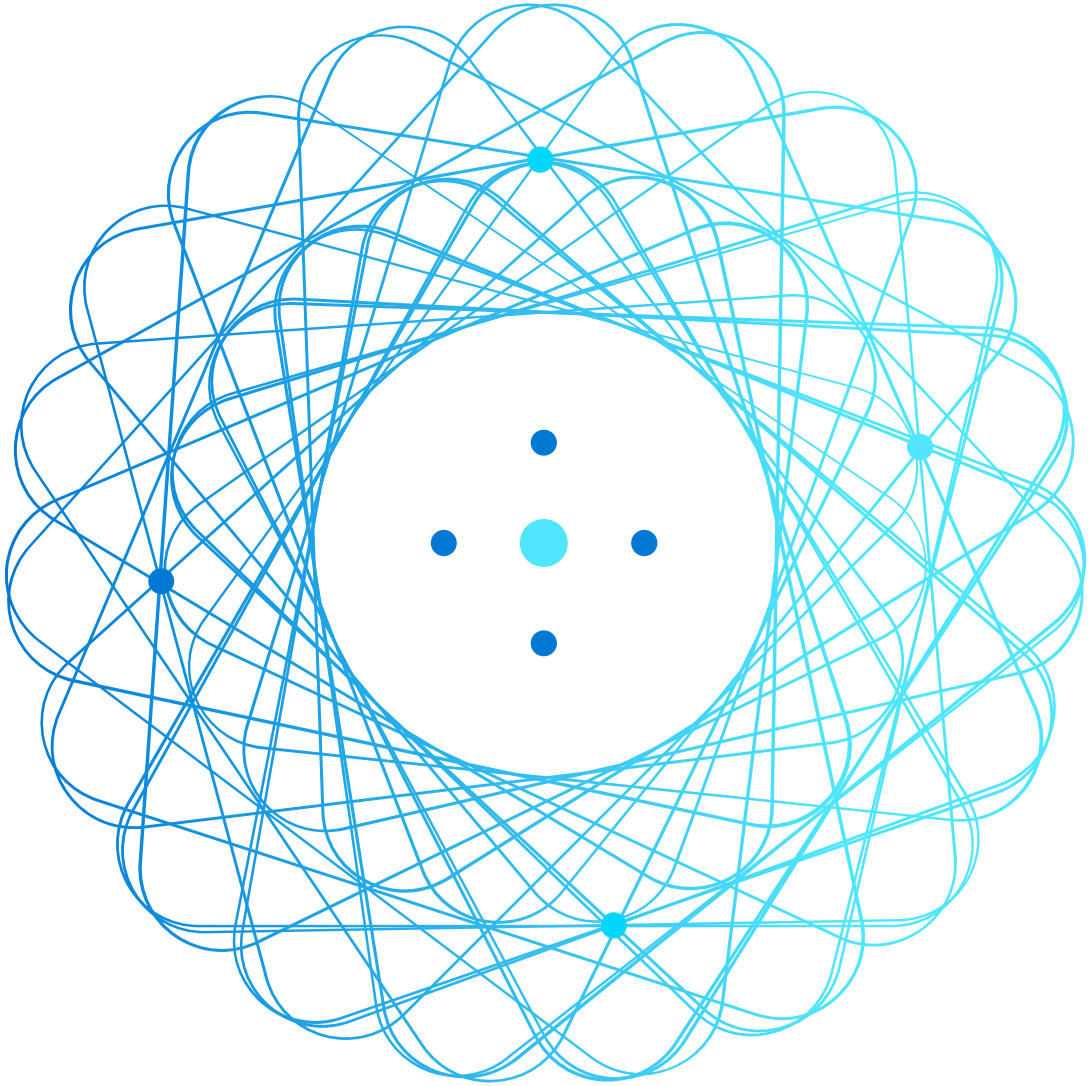
Microsoft Azure

AZ-140

Configuring and Operating Azure Virtual Desktop



AZ-140 Agenda

Learning Path 1

1. Azure Virtual Desktop Architecture
2. Design the Azure Virtual Desktop architecture
3. Design for user identities and profiles

Learning Path 2

4. Implement and manage networking for AVD
5. Implement and manage storage for AVD
6. Create and configure host pools and session hosts for AVD
7. Create and manage session host image for AVD

Learning Path 3

8. Manage access for AVD
9. Manage security for AVD

Learning Path 4

10. Implement and manage FSLogix
11. Configure user experience settings
12. Install and configure apps on a session host

Learning Path 5

13. Plan for disaster recovery
14. Automate Azure Virtual Desktop management tasks
15. Monitor and manage performance and health

Monitor and manage performance and health

Introduction

- Monitor Azure Virtual Desktop by using Azure Monitor
- Log Analytics workspace for Azure Monitor
- Monitor Azure Virtual Desktop by using Azure Advisor
- How to resolve Azure Advisor recommendations
- Diagnose graphics performance issues

AZ-140: Monitor and maintain an Azure Virtual Desktop infrastructure (20-25%)

Monitor and manage performance and health

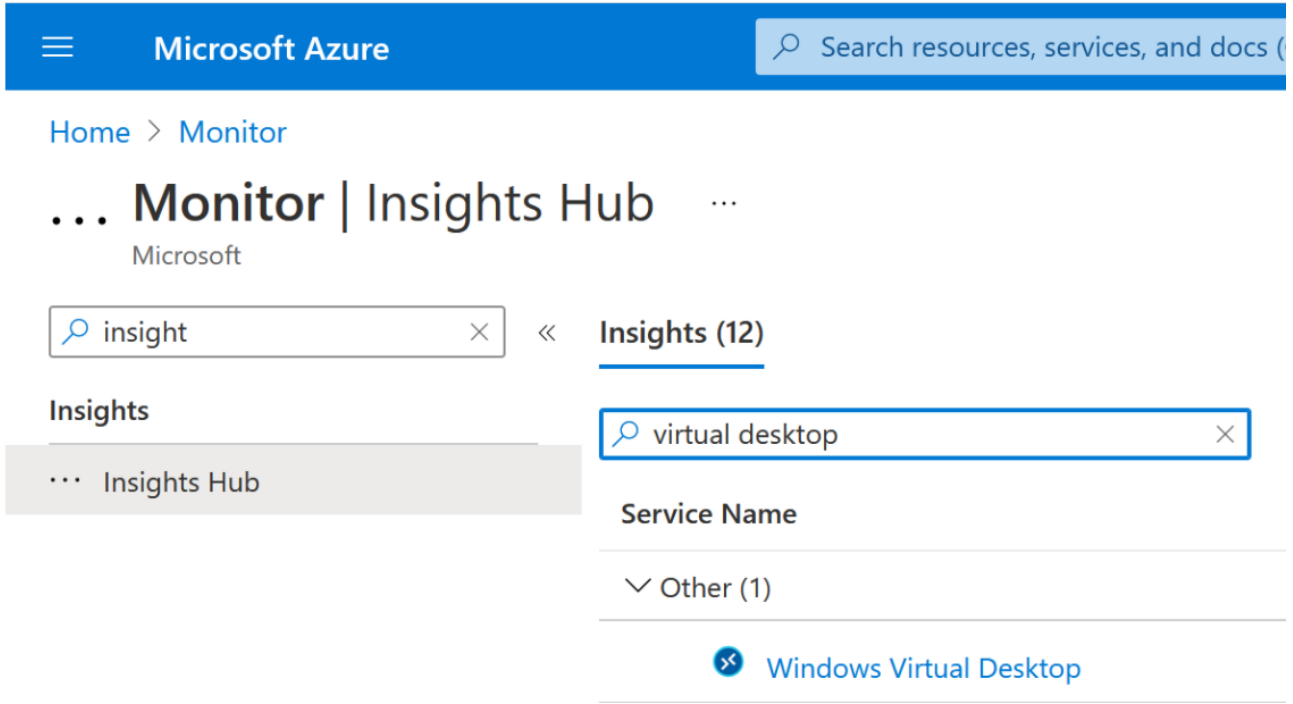
- Conceptual knowledge of Azure compute solutions.
- Working experience with virtual machines, virtual networks, and app service.

Monitor Azure Virtual Desktop by using Azure Monitor

Monitor Azure Virtual Desktop by using Azure Monitor

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

- Go to the Azure portal.
- Search for and select **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 workspace for Azure Monitor

Monitoring Agent
new : AMA
old : MMA
Metric → LA
DCR

Log Analytics workspace for Azure Monitor

To set up host pool diagnostics using the resource diagnostic settings section in the configuration workbook:

You need to enable the following supported diagnostic tables:

- Checkpoint
- Error
- Management
- Connection
- HostRegistration
- AgentHealthStatus

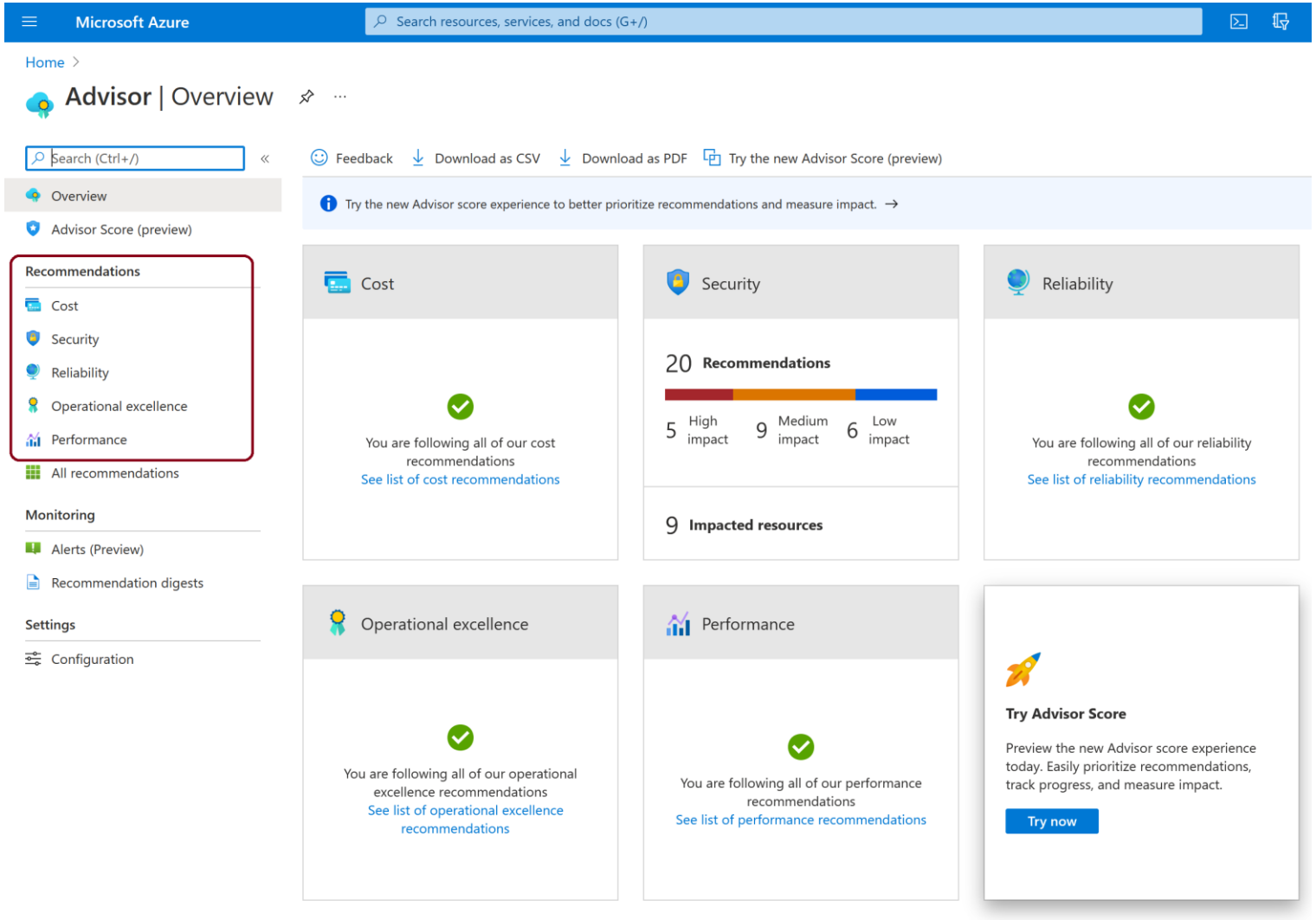
```
"resources": [
    {
        "type": "Microsoft.DesktopVirtualization/hostpools/providers/diagnosticSettings",
        "apiVersion": "2017-05-01-preview",
        "name": "[concat(parameters('hostpoolName'),'/Microsoft.Insights/', parameters('settingName'))
        "properties": {
            "workspaceId": "[parameters('workspaceId')]",
            "logs": [
                {
                    "category": "Checkpoint",
                    "enabled": true
                },
                {
                    "category": "Error",
                    "enabled": true
                },
                {
                    "category": "Management",
                    "enabled": true
                },
                {
                    "category": "Connection",
                    "enabled": true
                },
                {
                    "category": "HostRegistration",
                    "enabled": true
                },
                {
                    "category": "AgentHealthStatus",
                    "enabled": true
                }
            ]
        }
    }
```

Monitor Azure Virtual Desktop by using Azure Advisor

Monitor Azure Virtual Desktop by using Azure Advisor

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

- Cost
- Security
- Reliability
- Operational Excellence
- Performance

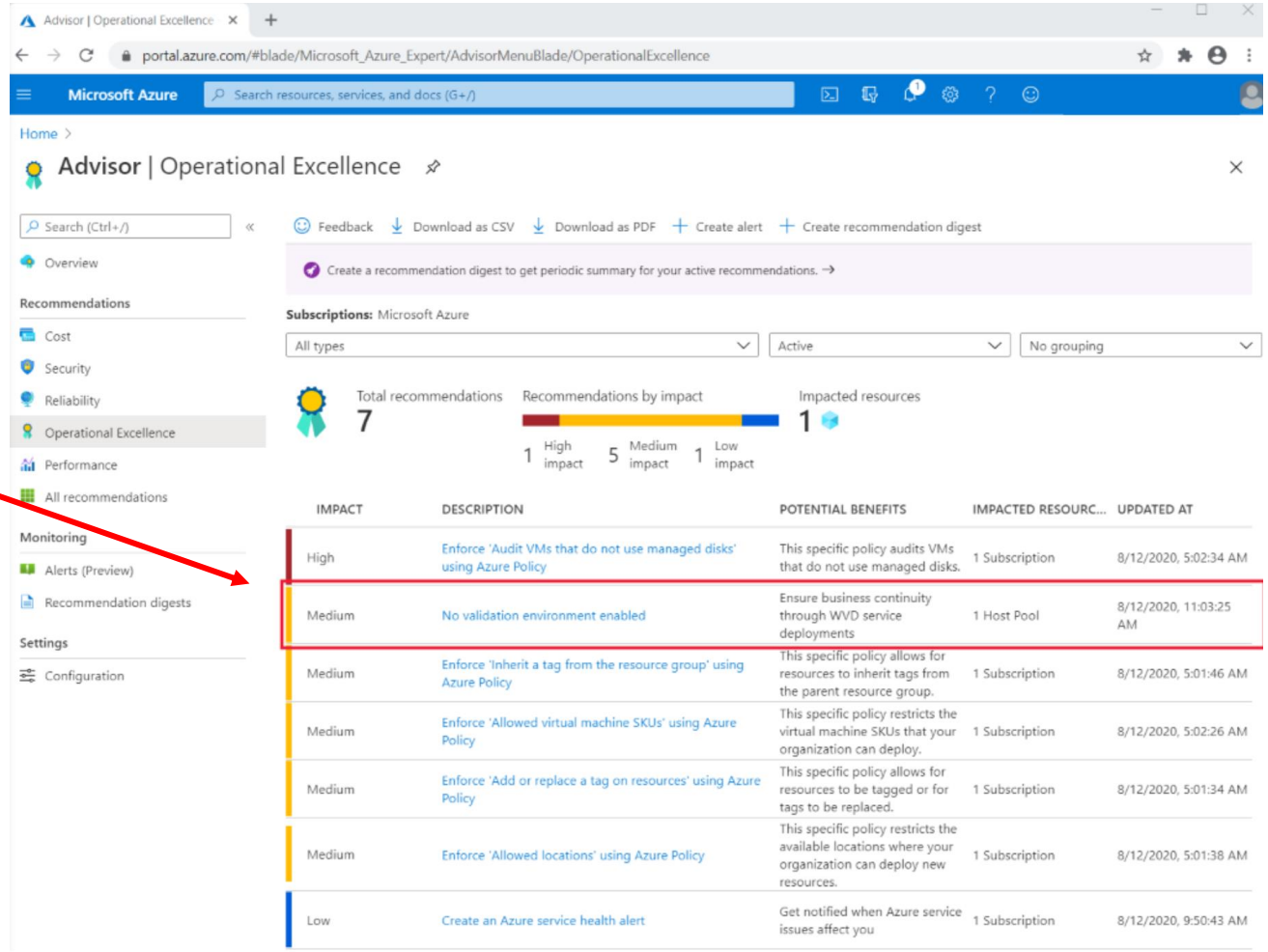


How to resolve Azure Advisor recommendations

How to resolve Azure Advisor recommendations

Recommendations to be resolved can include:

- No validation environment enabled
- Not enough production (non-validation) environments enabled
- Not enough links are unblocked to successfully implement your VM



Diagnose graphics performance issues

Diagnose graphics performance issues

Graphics-related performance issues fall into four categories:

- Low frame rate
- Random stalls
- High input latency
- Poor frame quality

There are three types of *Frames Skipped/Second* counters:

- Frames Skipped/Second (Insufficient **Server** Resources)
- Frames Skipped/Second (Insufficient **Network** Resources)
- Frames Skipped/Second (Insufficient **Client** Resources)

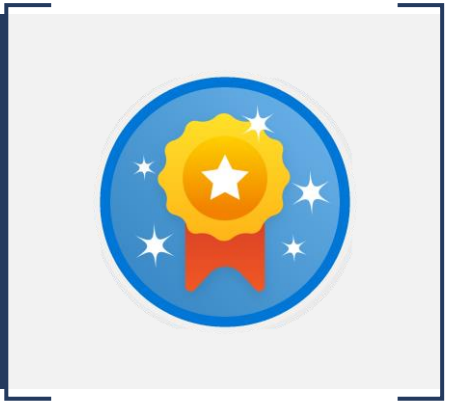
Knowledge check and Summary

Check your knowledge

What you learned:

- Describe how to monitor Azure Virtual Desktop by using Azure Monitor.
- How to use Log Analytics workspace for Azure Monitor.
- How to monitor Azure Virtual Desktop by using Azure Advisor.
- How to resolve Azure Advisor recommendations.
- How to diagnose graphics performance issues.

End of presentation



Lab - Implement autoscaling in host pools (AD DS)

- A Microsoft account or an Azure AD account with the Owner or Contributor role in the Azure subscription you will be using in this lab and with the Global Administrator role in the Azure AD tenant associated with that Azure subscription.
- The completed lab **Prepare for deployment of Azure Virtual Desktop (AD DS)**
- The completed lab **Deploy host pools and session hosts by using the Azure portal (AD DS)**

Estimated time: 60 minutes

Lab - Implement autoscaling in host pools (AD DS).