

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.

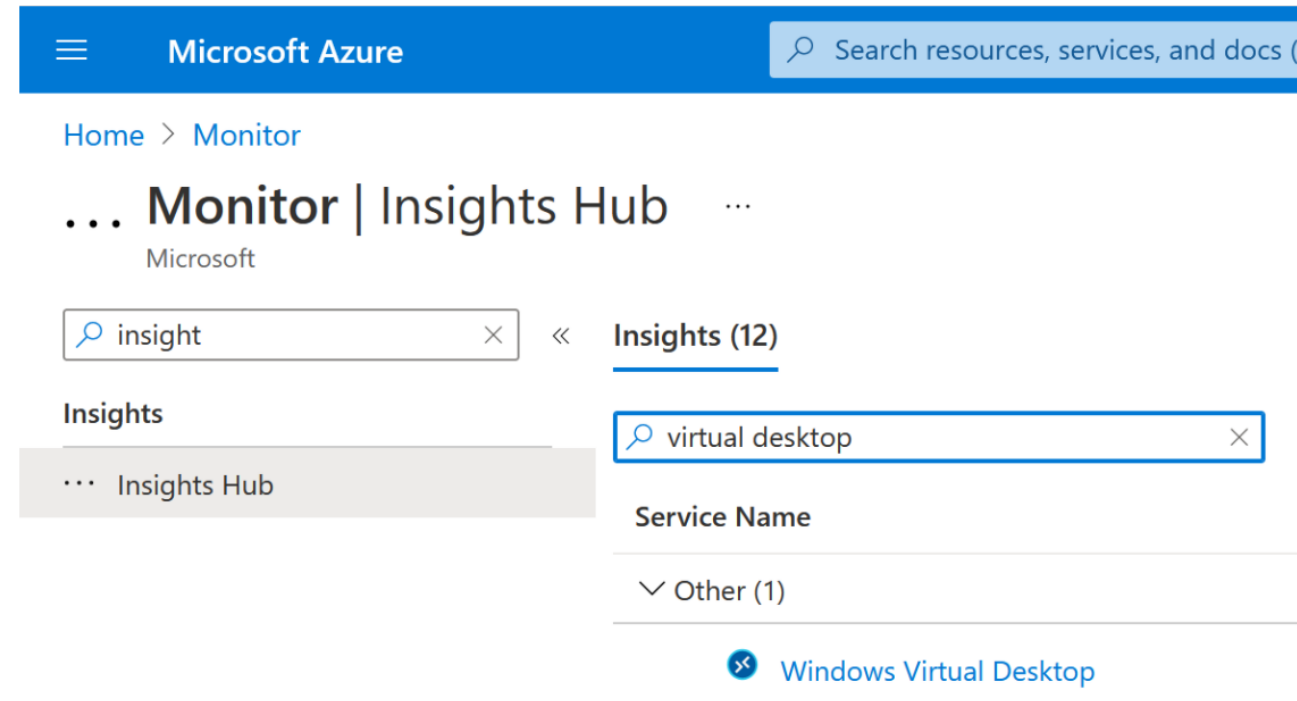
Monitor Azure Virtual Desktop by using Azure Monitor



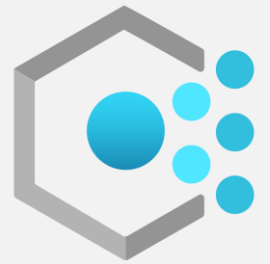
Monitor Azure Virtual Desktop by using Azure Monitor

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



Log Analytics workspace for Azure Monitor

Monitoring
Agent

new: AMA
old: MMA
Metric
↓
LA
DCR

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  
        }  
      ]  
    }  
  }  
]
```

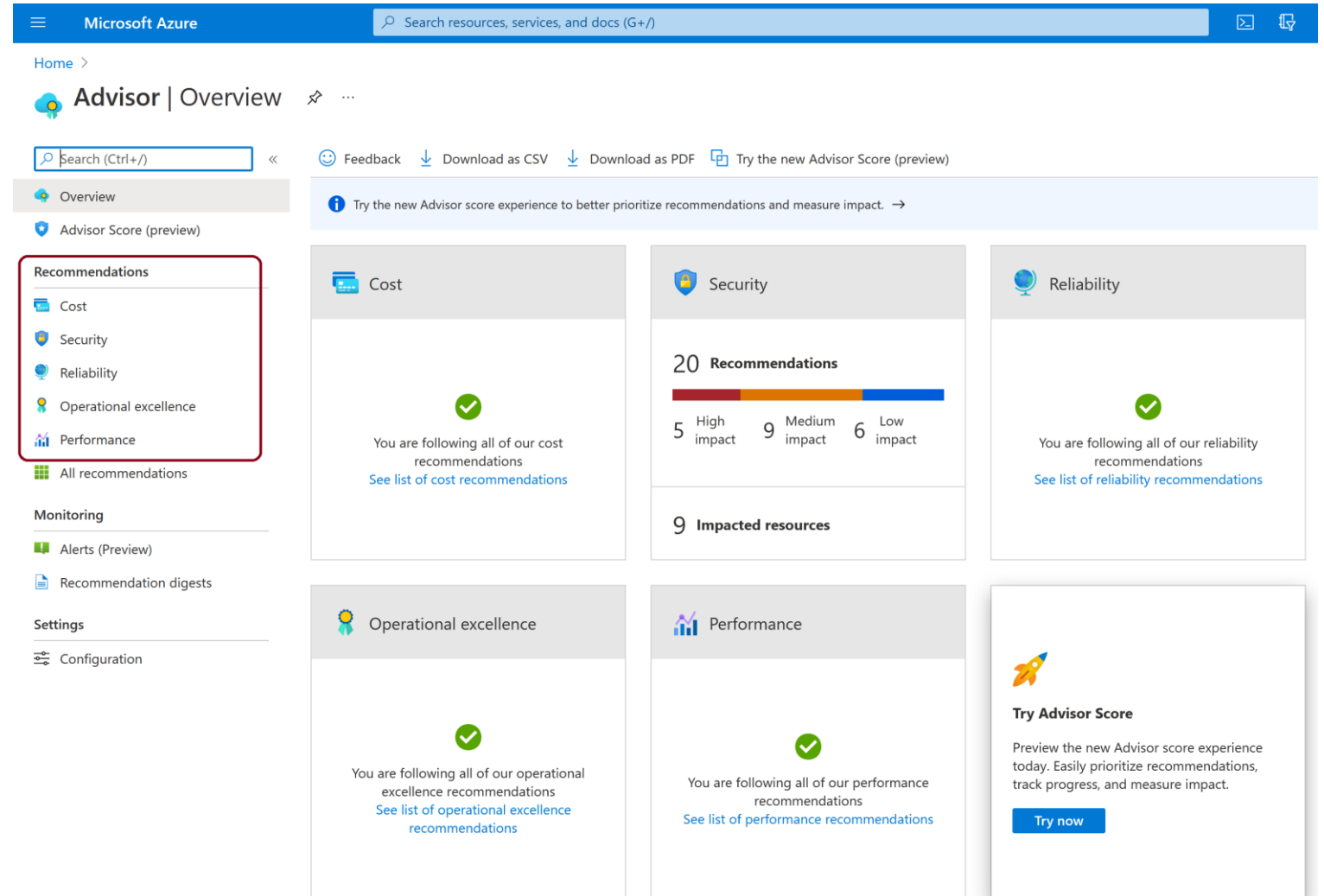

Monitor Azure Virtual Desktop by using Azure Advisor



Monitor Azure Virtual Desktop by using Azure Advisor

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

- Cost
- Security
- Reliability
- Operational Excellence
- Performance



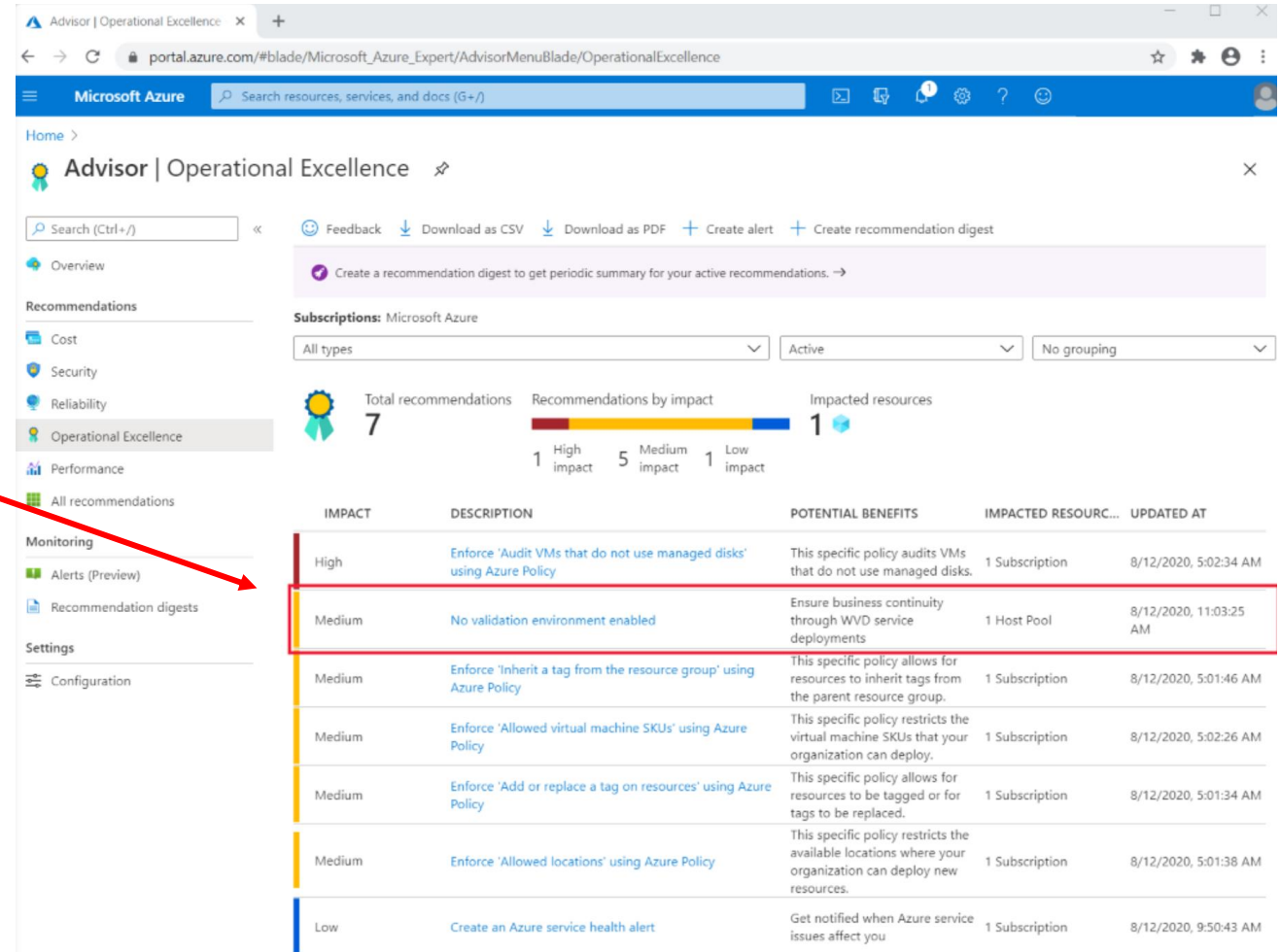
How to resolve Azure Advisor recommendations



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



The screenshot shows the Azure Advisor Operational Excellence interface. The left sidebar contains navigation links: Overview, Recommendations, Monitoring, Alerts (Preview), Recommendation digests, and Settings. The main content area displays a summary of recommendations for the 'Microsoft Azure' subscription, including a bar chart showing 7 total recommendations (1 High, 5 Medium, 1 Low impact) and 1 impacted resource. Below this is a table of recommendations:

IMPACT	DESCRIPTION	POTENTIAL BENEFITS	IMPACTED RESOURC...	UPDATED AT
High	Enforce 'Audit VMs that do not use managed disks' using Azure Policy	This specific policy audits VMs that do not use managed disks.	1 Subscription	8/12/2020, 5:02:34 AM
Medium	No validation environment enabled	Ensure business continuity through WVD service deployments	1 Host Pool	8/12/2020, 11:03:25 AM
Medium	Enforce 'Inherit a tag from the resource group' using Azure Policy	This specific policy allows for resources to inherit tags from the parent resource group.	1 Subscription	8/12/2020, 5:01:46 AM
Medium	Enforce 'Allowed virtual machine SKUs' using Azure Policy	This specific policy restricts the virtual machine SKUs that your organization can deploy.	1 Subscription	8/12/2020, 5:02:26 AM
Medium	Enforce 'Add or replace a tag on resources' using Azure Policy	This specific policy allows for resources to be tagged or for tags to be replaced.	1 Subscription	8/12/2020, 5:01:34 AM
Medium	Enforce 'Allowed locations' using Azure Policy	This specific policy restricts the available locations where your organization can deploy new resources.	1 Subscription	8/12/2020, 5:01:38 AM
Low	Create an Azure service health alert	Get notified when Azure service issues affect you	1 Subscription	8/12/2020, 9:50:43 AM

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 \(AD DS\).](#)

