

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



Automate Azure Virtual Desktop management tasks



Introduction

- Scale session hosts using Azure Automation
- Create or update an Azure Automation account
- Create or update an Azure Automation account
- Create the Azure Logic App and execution

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

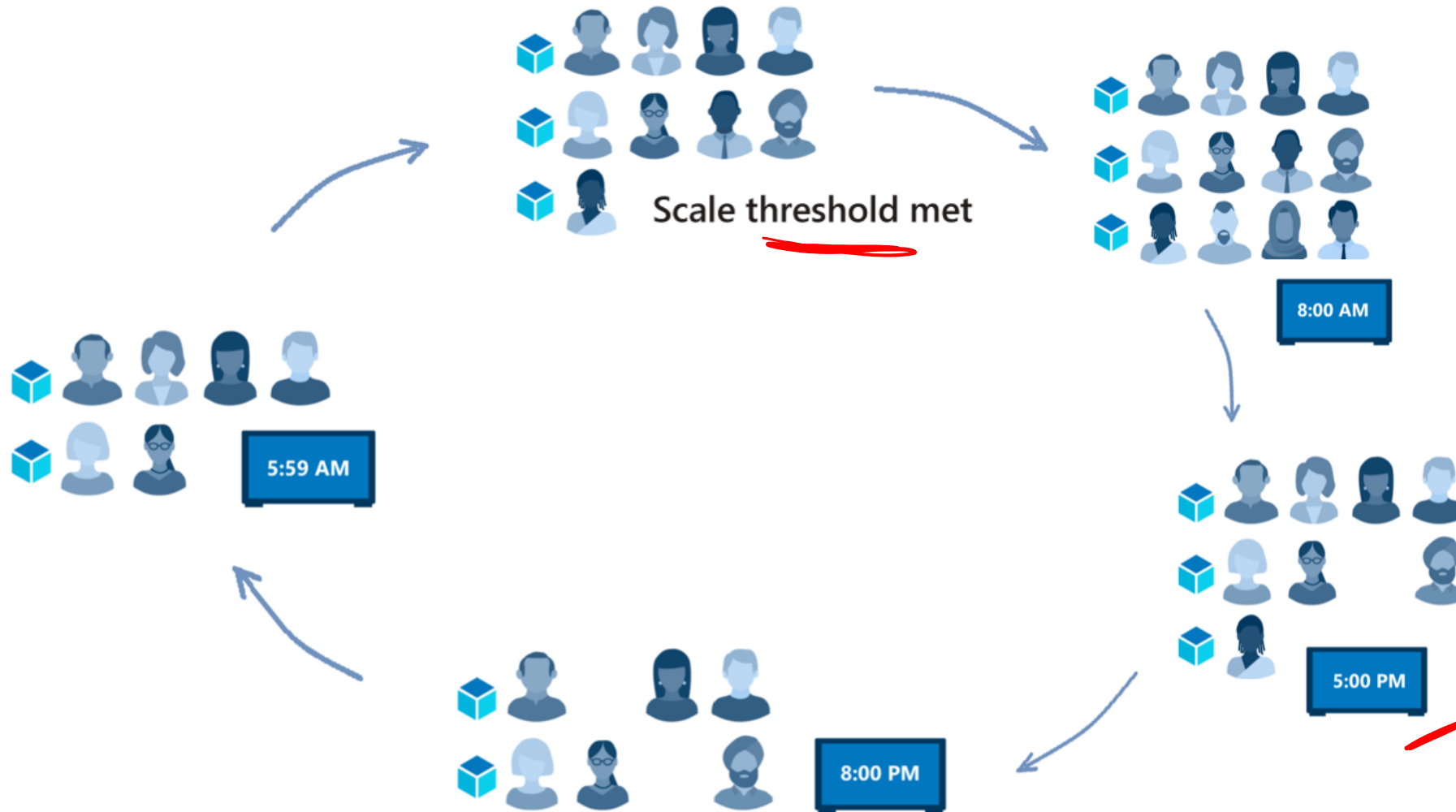
Automate Azure Virtual Desktop management tasks

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

Scale session hosts using Azure Automation



Scale session hosts using Azure Automation



- Runbooks
.ps1
- Update Management

Create or update an Azure Automation account



- DSC Pull Server
configuration foo {...}
- MOF
-

SH

SH

Create or update an Azure Automation account

To download the script for creating the Azure Automation account, run:

```
New-Item -ItemType Directory -Path "C:\Temp" -Force
Set-Location -Path "C:\Temp"
$Uri = "https://raw.githubusercontent.com/Azure/RDS-Templates/master/AVD-templates/AVD-scaling-script/CreateOrUpdateAzAutoAccount.ps1"
# Download the script
Invoke-WebRequest -Uri $Uri -OutFile ".\CreateOrUpdateAzAutoAccount.ps1"
```

To execute the script and create the Azure Automation account, run:

```
$Params = @{
    "AADTenantId"          = "<Azure_Active_Directory_tenant_ID>" # Optional. If not specified, it will use the current Azure context
    "SubscriptionId"       = "<Azure_subscription_ID>"           # Optional. If not specified, it will use the current Azure context
    "UseARMAPI"            = $true
    "ResourceGroupName"    = "<Resource_group_name>"            # Optional. Default: "AVDAutoScaleResourceGroup"
    "AutomationAccountName" = "<Automation_account_name>"       # Optional. Default: "AVDAutoScaleAutomationAccount"
    "Location"             = "<Azure_region_for_deployment>"
    "WorkspaceName"        = "<Log_analytics_workspace_name>"    # Optional. If specified, Log Analytics will be used to configure the custom
    log table that the runbook PowerShell script can send logs to
}
.\CreateOrUpdateAzAutoAccount.ps1 @Params
```

Note: To setup a standalone automation account and Run As account using the Azure portal, see [Create a standalone Azure Automation account](#).

Create an Azure Automation Run As account



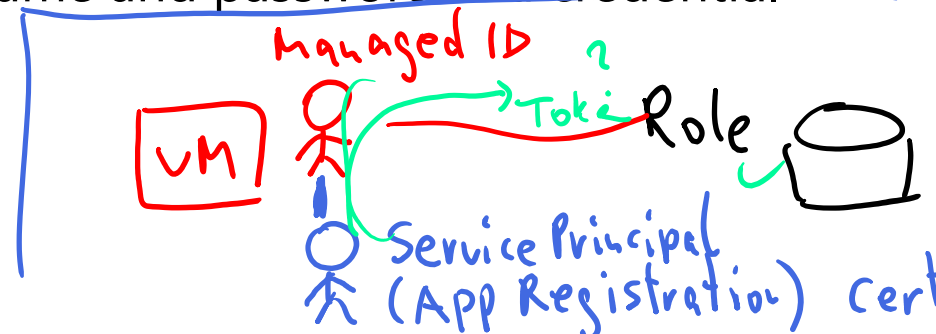
deprecated

Create an Azure Automation account and Run As account

An Azure Automation Run As account provides authentication for managing resources in Azure with Azure cmdlets.

- When you create a Run As account, it creates a new service principal user in Azure Active Directory and assigns the Contributor role to the service principal user at the subscription level.
- An Azure Run As account allows you to authenticate securely with certificates and a service principal name without needing to store a username and password in a credential object.

→ Managed Id



Azure Run As Account Properties

Renew certificate Delete

Azure Active Directory Application

Display Name
Auto-account-az-140_6d0+Armi6Gqdn ...

Certificate

Name
AzureRunAsCertificate

Expiration
4/25/2022, 5:00 PM

Thumbprint
6E036553F70D306726974A8AB10DCD8 ...

Connection

Name
AzureRunAsConnection

Application ID
9bc0ca8e-daaa-466a-94f4-38166fafd70a

Thumbprint
6E036553F70D306726974A8AB10DCD8 ...

Subscription ID
d615bd6f-0b17-455c-b637-fb0b1a15b9 ...

Tenant ID
6168e3b4-025e-4996-8615-1312f5f2293a

Service Principal

Service Principal Object ID
44530d10-c1f4-4e15-944c-693a189d6ec0

other Password

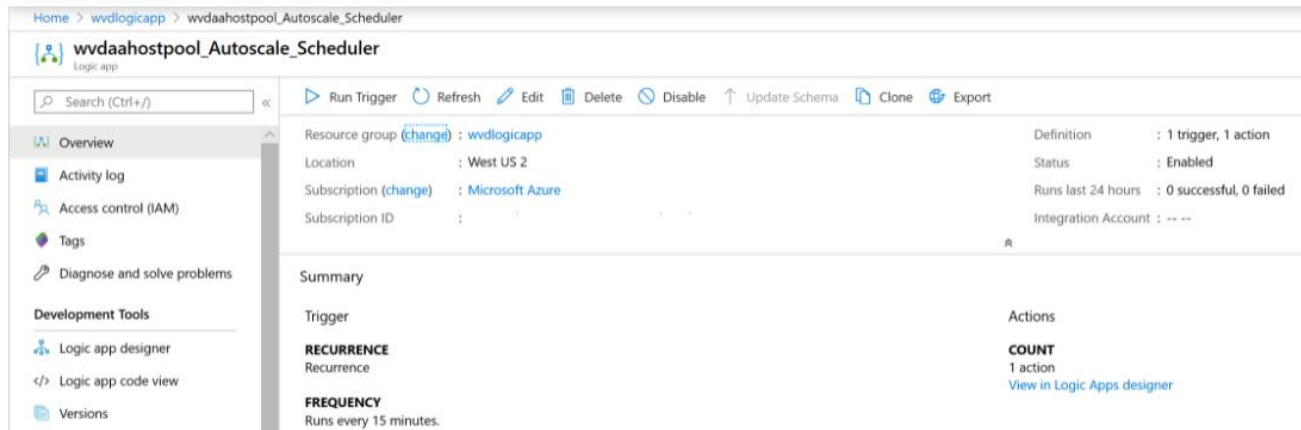
Create the Azure Logic App and execution



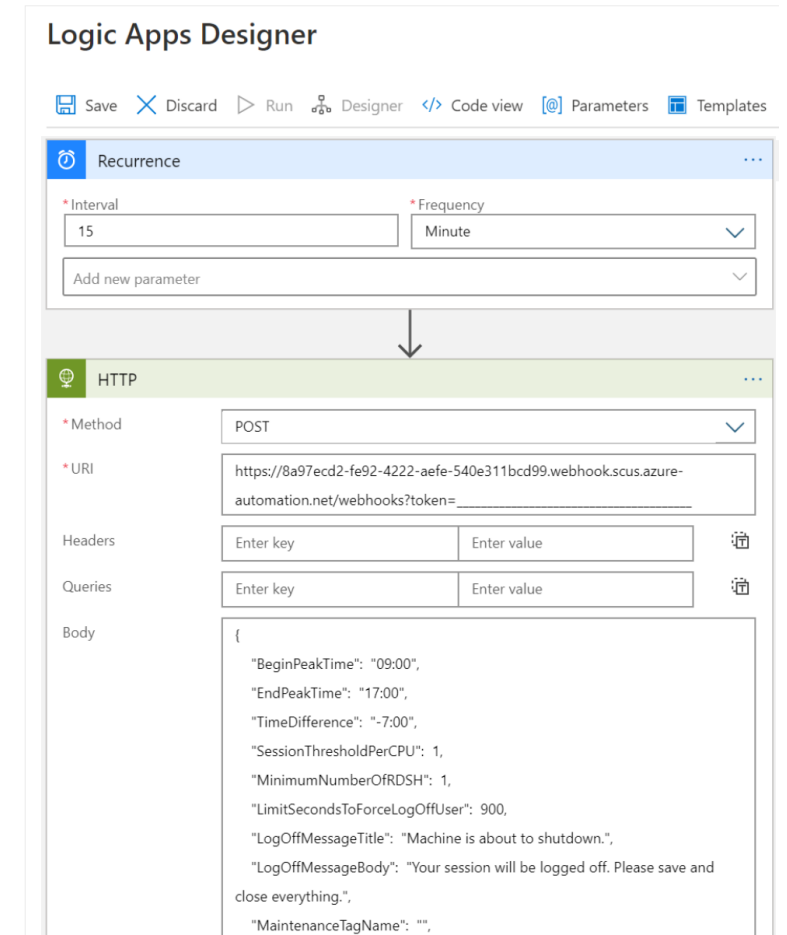
Create the Azure Logic App and execution schedule

Create the Azure Logic App and set up an execution schedule for your new scaling tool.

1. To create the Azure Logic App and execution schedule for a host pool using PowerShell, run the script located at [Create the Azure Logic App and execution schedule](#).



2. To make changes to the execution schedule, open the Logic App and use the Logic Apps Designer.



Knowledge check and Summary

Check your knowledge



What you learned:

- Describe how to scale session hosts using Azure Automation.
- Create or update an Azure Automation account.
- Create an Azure Automation Run As account.
- Create the Azure Logic App and execution schedule.

End of presentation

