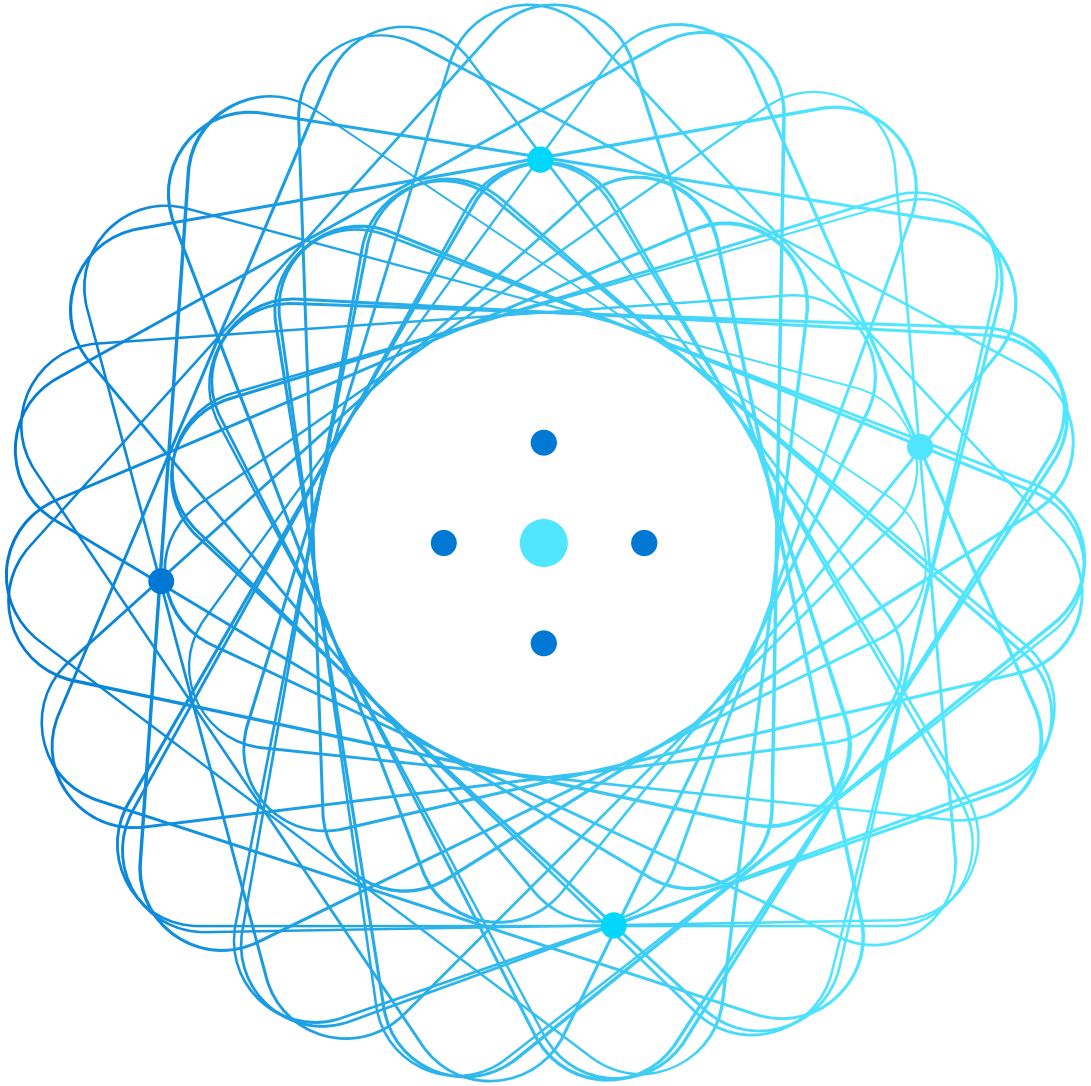
Microsoft Azure

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

Automate Azure Virtual Desktop management tasks

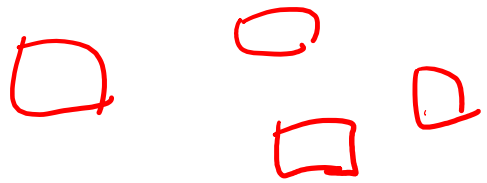
Introduction

- 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

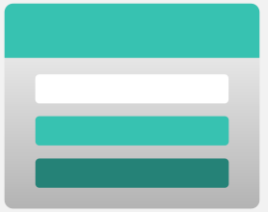
AZ-140: Monitor and maintain an Azure Virtual Desktop infrastructure (20-25%)

Automate Azure Virtual Desktop management tasks

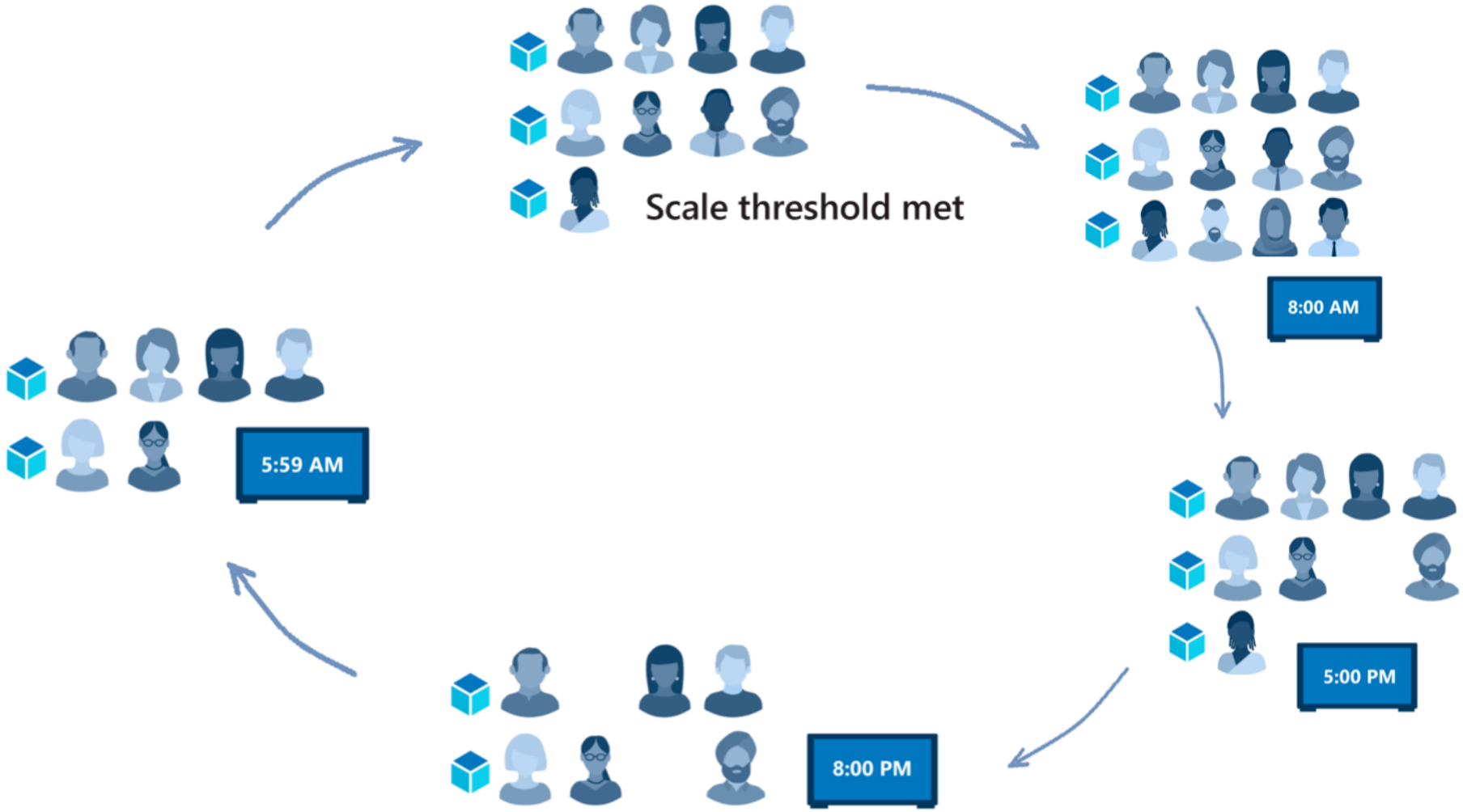
- Conceptual knowledge of Azure compute solutions.
- Working experience with virtual machines, virtual networks, and app service.



Scale session hosts using Azure Automation



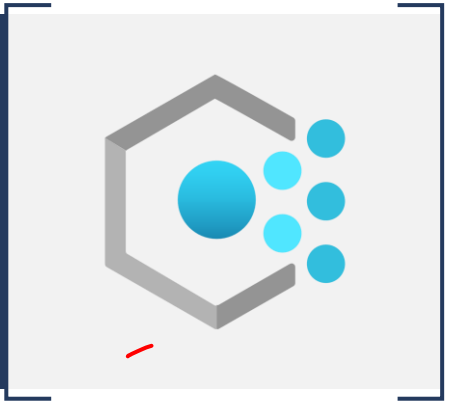
Scale session hosts using Azure Automation



Automation Account
5.1 | 7
Schedule

Logic App — No code
Azure Functions — Code
} "Serverless"

Create or update an Azure Automation account



+ Update Mgmt
+ DSC pull server

Create or update an Azure Automation account

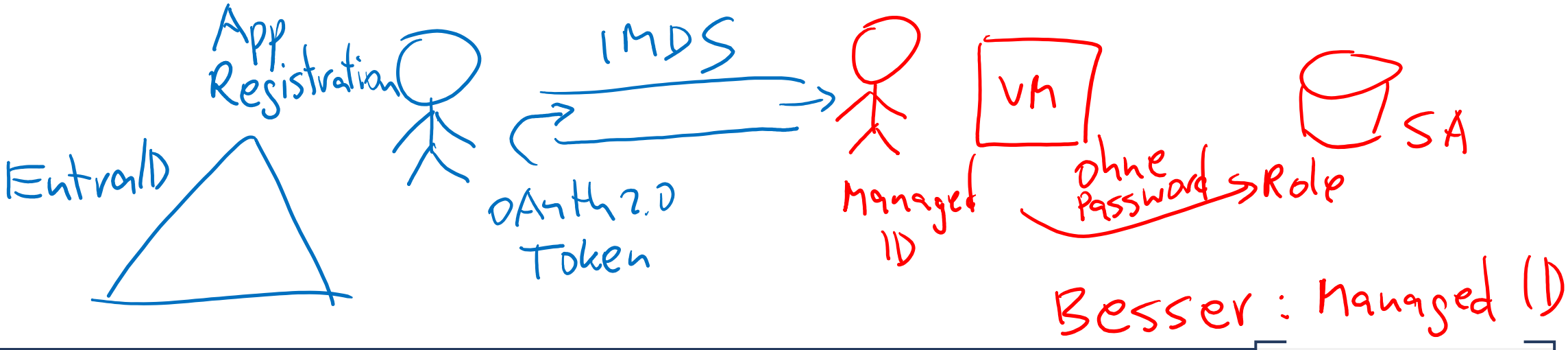
To download the script for creating the Azure Automation account, run:

```
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.

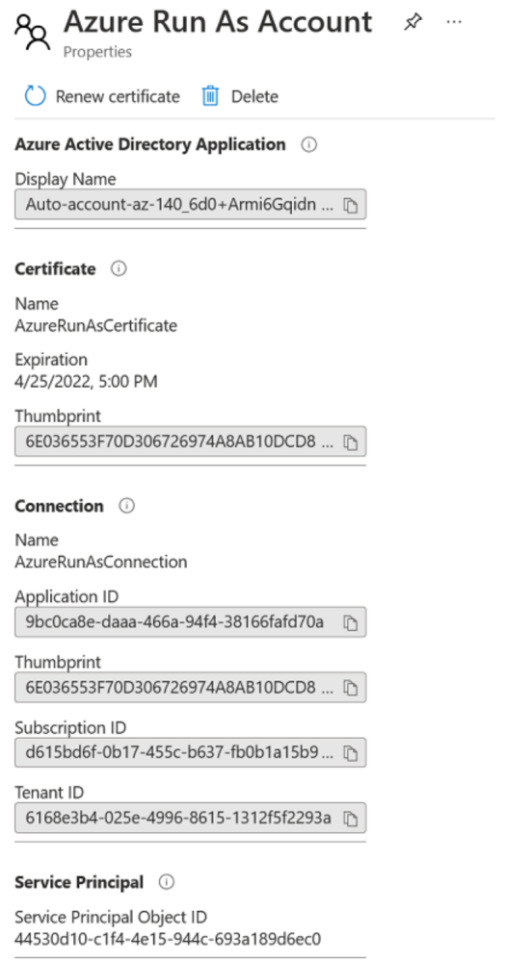


Create an Azure Automation Run As account

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.

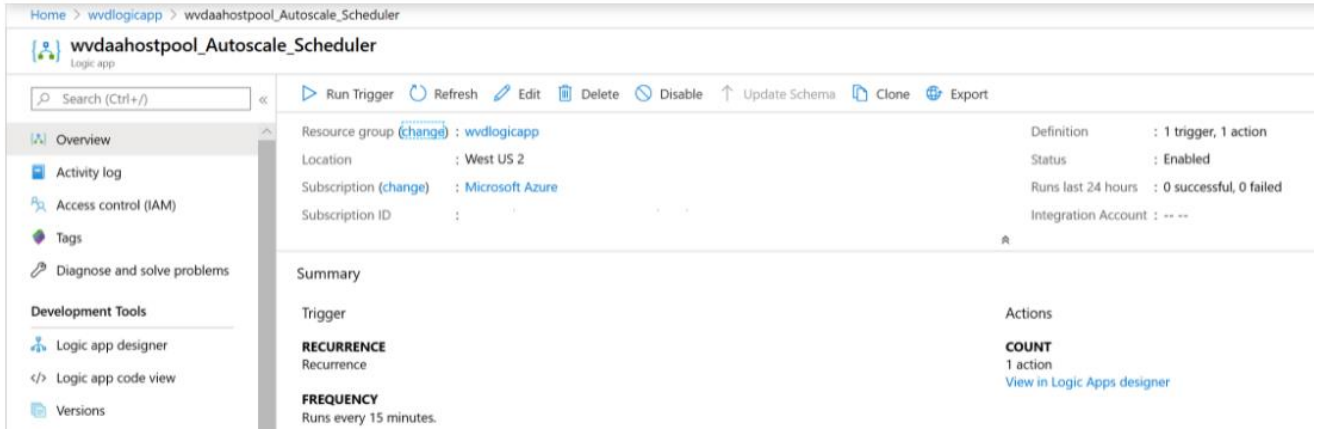


Create the Azure Logic App and execution

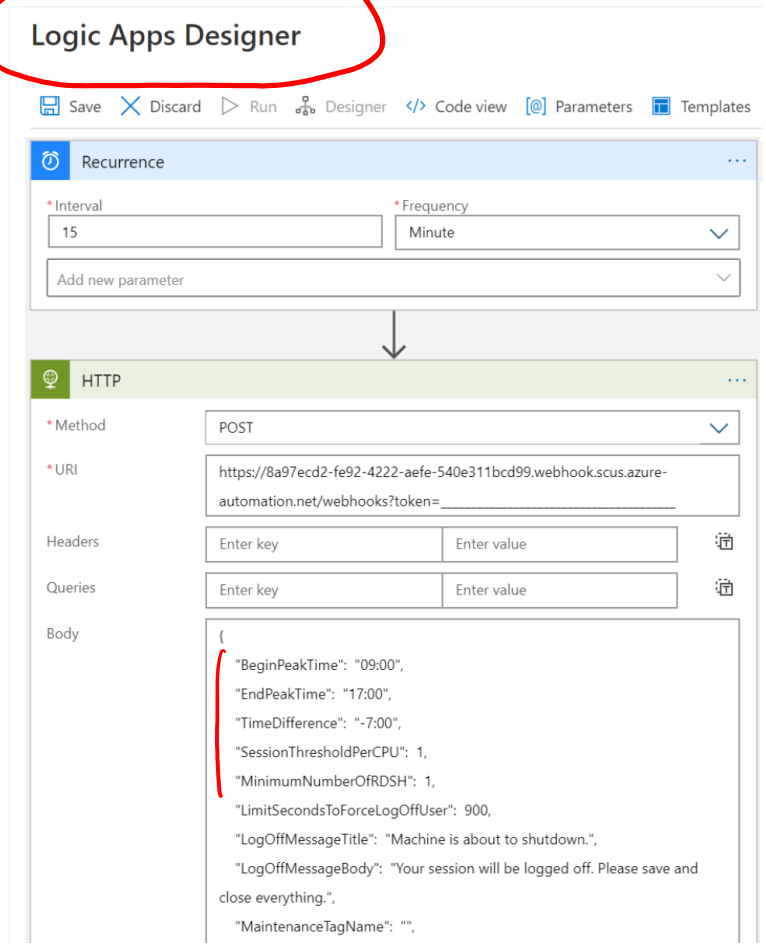
Create the Azure Logic App and execution schedule

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