

Agenda

- Shared Resources (Assets)
- Runbooks
- Author Runbooks
- Desired State Configuration
- Monitoring & Troubleshooting



Automation Today

Automation today is often manual, error-prone, and frequently repeated tasks.

- Unable to manage enterprise wide automation tasks from a single location.
 Inconsistent credential usage for automated tasks.
 Command line only option for scheduled task management on remote servers.
 Laborious to monitor automated tasks.



What is Azure Automation

Azure Automation delivers a cloud-based automation and configuration service that provides:

- Consistent management across your Azure and non-Azure environments.
- Consists of process automation, update management, and configuration features.
- Provides complete control during deployment, operations, and decommissioning of workloads and resources.



Azure Automation capabilities Process Automation Orthestrate processes using graphical. Power Shell, and Python runbooks Configuration Management Configure desired stute Update Management Assess compliance Schedule update installation Windows & Linux Apure and on greenises

Benefits of Azure Automation

- Automate time consuming, error prone operational tasks across Azure & 3rd party systems.
- Manage enterprise wide automation tasks from a single location.
- Ensure consistent credential usage for automated tasks.
- Improved monitoring of automated tasks
- Lower operational costs by reduced management time.
- Integrate with existing systems









Certificates

- Certificates can be securely stored in Azure Automation so they can be used by Runbooks or DSC configurations to encrypt sensitive information. This allows you to reate Runbooks and DSC configurations that use certificates for authentication or adds them to Azure or third party resources.
- Import and export both .cer and .pfx files to Azure Automation using PowerShell or the Azure portal.
 Certificate must be marked as exportable during import if it is to be exported at another time.



Connections

- or DSL configuration.

 May include information required for authentication such as a username and password in addition to connection information such as a URL or a port.

 Connection types are defined by the PowerShell integration modules that are installed eg. installing the Azure PowerShell module allows you to create a connection to an Azure subscription.
- Connections can be created using PowerShell or the Azure portal.



Credentials

- An Automation credential asset holds a PSCredential object which contains security credentials outh as a username and password. Simplifies Runbook and DSC configurations that may use credites that accept a PSCredential object for authentication.



Integration Modules • An Integration Module is a PowerShell module that is imported into an Azure Automation account. • Cradlets from integration modules can be used in Runbooks or DSC configurations. • Import PowerShell modules from a local machine or from the Automation Integration Modules gallery. • Imported modules from a local machine must be compressed with a zip extension and be smaller than 100MB. • Integration modules are imported via the Azure portal.

Schedules Azure Automation Schedules are used to schedule Runbooks to run automatically. Could be either a single date and time or it could be a recurring hourly, daily weekly, or monthly schedule to start the Nurbook multiple times. Schedules can be created using PowerShell or the Azure portal. Schedules do not currently support Azure Automation DSC configurations.



Python 2 packages

- Azure Automation allows you to run Python 2 runbooks on Azure and on Linux Hybrid Runbook Workers
- This includes the ability to upload Python 2 packages to be imported by Python 2 runbooks running serverlessly in Azure
- It also includes the ability to use other Automation resources, such as schedules, variables, connections, and credentials.
- Supported package types include Python wheel packages and packages that have been source distribution compressed in the *tar.gz format.



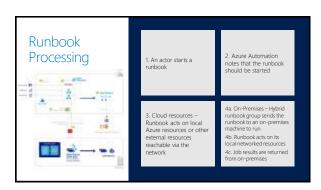
Demo: Automation Assets





What is a Runbook In Azure Automation, a Runbook is a file that contains a set of procedures and operations. Runbooks are used as input for the Azure Automation service to process. The contents of a Runbook file is written using PowerShell or PowerShell Workflow commands. PowerShell Workflow is a PowerShell extension that allows you to run a PowerShell excipt on multiple devices in parallel with added functionality such as checkpoints, suspend & restart.





Runbook Authentication

- Runbooks are authenticated using a Run As account, th allows the Runbook to execute it's tasks under this accounts security context.
- A Run As account can be created during the creation of an Azure Automation account or an existing account can be added later using PowerShell.
- The Run As account that is created during the creation of an Azure Automation account is granted the Contributor Role for the Azure subscription.
- Existing accounts that are used must be granted the appropriate permissions in order for the Runbook to complete its tasks.



Start a Runbook using a Schedule

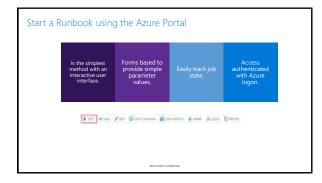
- Automatically start a Runbook on an nouny, daily, or weekly schedule.
- Manipulate the schedule through the Azure portal, PowerShell cmdlets, or Azure API.
- Provide parameter values to be used with the schedule



Start a Runbook using PowerShell

- Runbooks can be called from a command line with Windows PowerShell cmdlets
- The call can be included in an automated solution with multiple steps
- The request is authenticated with a certificate or OAuth user principal / service principal
- Provide simple and complex parameter values to start the Runbook
- Track job state
- Client required to support PowerShell cmdlets.

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Start a Runbook using Webhooks A Webhook is a HTTP POST request that is sent to a specific URL, on receiving the POST request, some action is taken i.e. start a Runbook. The URL is generated during the creation of a Webhook and includes a built in security token that is used to authenticate the request when it is received by the Azure Automation service. The Webhook URL must be specified in the application that will be making the request. You cannot specify a custom URL and the URL expiration date cannot be changed after the Webhook as been created. No ability to track job state through a Webhook URL

Hybrid Runbook Workers Hybrid Runbook Workers allow you to run Runbooks on machines located in your local data center in order to manage local resources. Runbooks are stred and managed in Azure Automation and downloaded by one or more designated on-premises machines via an agent. Outbound TCP 443 is required since the agent on the local computer initiates all communication with Azure Whitelist URL: *azure-automation.net Use the RunOn option in the Azure portal to select the name of the Hybrid Runbook Worker to start a Runbook.

Schedule a Runbook To schedule a Runbook in Azure Automation, it must be linked to a pre-existing schedule. A schedule can be configured to either run once or on a reoccurring hourly or daily basis. A schedule can also be configured to run weekly, monthly, specific days of the week or days of the month, or a particular day of the month. A Runbook can be linked to multiple schedules, and a schedule can have multiple Runbooks linked to it.





Manage Azure Automation Data

- When a resource is deleted in Azure Automation, it is retained for 90 days for auditing purposes before being permanently removed.
- When you delete an automation account in Microsoft Azure, all objects in the account are deleted including runbooks, modules, configurations, settings, jobs, and assets.
- Azure Automation data should be manually backed u e.g. export Runbooks, DSC configuration etc.
- Geo-Replication in Azure Automation is used by default to ensure data recovery in the event of an Azure datacenter outage.



Demo: Creating & Running a Runbook

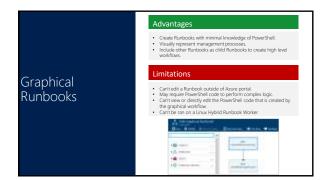




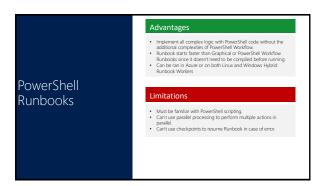




Graphical Runbooks Graphical Runbooks are created and edited with the graphical editor only in the Azure portal. Can be exported to a file and then imported into another automation account. Generate PowerShell code which cannot be directly viewed or modified Cannot be converted to one of the text formats, nor can a text Runbook be converted to graphical format. Can be converted to Graphical PowerShell Workflow Runbooks during import and vice-versa.

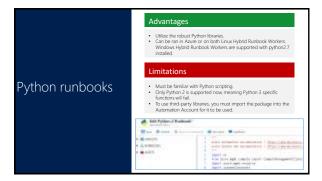






PowerShell Workflow Runbooks PowerShell Workflow Runbooks are text Runbooks based on PowerShell Workflow. Directly edit the code of the Runbook using the text editor in the Azure portal. Can also use any offline text editor and import the Runbook into Azure Automation





Automation Accounts • All Runbooks Hybrid Worker Groups, Assets and DSC configuration are stored in an Automation Account • Security and Automation management boundary for Azure Automation • Scope for RBAC • Location ensures that all Automation components are stored in a particular Azure legion • Specifies the Azure subscription to be billed for Automation usage • There is no limit for a maximum number of Automation accounts in a subscription

Create & Import Runbooks You can add a Runbook to Azure Automation by either creating a new one or by importing an existing Runbook from a file or from the Runbook Gallery. Create a new Runbook using the Azure portal or Windows PowerShell. Use New-AzAutomationRunbook to create an empty Runbook. When you create or import a new Runbook, it must be published before you can run it.



Edit Graphic Runbooks

- Select activities from the library control and place them onto the canvas, then edit their parameters in the configuration pane and save and publish.
- Use links to connect two activities in your canvas.
 Sequencelink destination activity runs after source activity completes
 Pipeline link destination activity runs once an output object is received from the source activity.



PowerShell Workflow

PowerShell Workflow is a PowerShell extension that allows you to run a PowerShell script on multiple devices in parallel with added functionality such as checkpoints, suspend & restart. You can convert a PowerShell script to a PowerShell workflow by enclosing it with the Workflow keyword and naming it.

Get-Service | Where-Object (\$_.Status -eq "Running")

Workflow Get-RunningServices

Get-Service | Where-Object-FilterScript (\$_.Status -eq "Running")

Source Control Integration

- A check-in from Azure Automation will overwrite code that currently exists in GitHub.



Demo: Graphical Runbook Authoring



Automation Desired State Configuration (DSC) Azure Automation Desired State Configuration (DSC) allows you to consistently deploy, monitor, and automatically update the desired state of all your IT resources, at scale from the cloud. Built on PowerShell DSC and can align machine configuration with a specific state across physical and virtual machines, using Windows or Linux, in the cloud or on-premises Builds on top of PowerShell DSC to provide an easier configuration management experience. Automation DSC includes: Author and manage PowerShell DSC configurations Import DSC Resources Generate DSC Node configurations (MOF documents) DSC configuration files are stored on an Azure Automation DSC Pull server so that target nodes can download and apply them.

Automation DSC Terms

- Node Configuration Is a file that is produced when a DSC configuration is compiled, this is typically the configuration document that nodes will apply.
- Resource A PowerShell module that is used to define a DSC configuration. They are seen as the building blocks of DSC configuration.
- configuration.

 Compilation lob An instance of compilation of a configuration to create a node configuration.

 Similar to Azure Automation Runbook jobs, but they do not perform any task, only compile configurations.

 Automatically stored on an Azure DSC pull server.

 Overwrites previous versions of node configurations



Automation DSC Process - B B...

Onboarding Nodes for Management

- ZULE ARCUINTAINUT DESCRIPTION OF ADMINISTRATION OF ADMINISTRATION

- Windows machines on-premises or in a cloud other than Azure or AWS must have WMF 5.0 installed and have the PowerShell DSC metaconfiguration applied.
- Linux machines on-premises, in Azure or in another cloud must have the latest DSC Linux agent installed and have the PowerShell DSC metaconfiguration applied.

Registration key – Specifies which Automation account Access Key to use for the DSC node to authenticate with. Node Configuration Name – Specifies the name of the DSC configuration file to be used. Refresh Frequency – Specifies how often the DSC node will contact the Pull server and download the latest node configuration. Configuration Mode Frequency – Specifies how often the downloaded node configuration will be applied. Configuration Mode – Specifies the mode of configuration e.g. ApplyAndlMonitor, ApplyOnly. Allow Module Override – Specifies whether or not newer modules downloaded from the Pull server are allowed to overwite older modules on the DSC node. Reboot Node if Needed – Specifies whether or not to reboot following a configuration update. Action after Reboot – Specifies actions to take following a reboot e.g. ContinueConfiguration or

DSC Metaconfiguration & Secure Registration DSC Metaconfiguration is a script that consists of the DSC engine settings that will be used to connect a node to a DSC pull server and keep it updated. DSC metaconfigurations for Azure Automation DSC can be generated using either a Power-Shell DSC configuration, or the Azure Automation Power-Shell emidles. Must be applied to on-premises or non Azure virtual machines in order to onboard the server to Automation DSC. Secure Registration is a registration protocol, allows a DSC node to authenticate to a Power-Shell DSC V2 Pull server (Including Azure Automation DSC). The node registers to the DSC Pull server at a Registration URL, and authenticates using a Registration key specified in the DSC Metaconfiguration. A certificate is generated and used for future communication between the node and the DSC Pull server.

Azure portal Simplest method with interactive user interface Form to provide simple parameter values Easily track job state Access authenticated with Azure logon Windows PowerShell Call from command line with PowerShell cmdlets Can be included in automated solution with multiple steps Provide simple and complex parameter values Track job state Client required to support PowerShell cmdlets Plass ConfigurationData Compile configurations that use credentials







Automation Monitoring



Azure Log Analytics

- Log Analytics workspace is a unique environment for Azure Monitor log data. Each workspace has its own data repository and configuration, and data sources and solutions are configured to store their data in a workspace. Nou require a log Analytics workspace if you intend on collecting data.
- Provides real-time insights using integrated search and custom dashboards to readily analyze records across all of your workloads and servers regardless of their physical location.



Automation & Log Analytics

- Log analytics is billed per GB of data uploaded into the service, and offers a free data plan with up to 500MB of data per day with a retention period of 7 days.

- The latest release of Azure PowerShell.
 A Log Analytics workspace.
 The Resourceld for your Azure Automation account.
- \$workspaceId = "[resource id of the log analytics workspace]"

Set-AzDiagnosticSetting - ResourceId SautomationAccountId `
- WorkspaceId SworkspaceId - Enabled 1



Demo: Automation Monitoring

Automation Troubleshooting

- Error logs can be viewed in the Azure portal or by using the PowerShell cmdlet Get-AzAutomationJob and can be used as a starting point to help isolate the problem.
- include:

 Authentication errors when working with Azure Automation
 Runbooks

 Errors when working with Runbooks

 Frors when importing modules

 Frors when working with Desired State Configuration (DSC)

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Sign	in to	Azura	Account	failed

This error occurs if the credential asset name is not valid or if the username and password that you used to setup the Automation credential asset are not valid.

Error: You receive the error "Unknown_user_type: Unknown User Type" when working with the Add-AzureAccount or Login-Azurefin/Account cridlets.

Resolution:

,	
Unable to find the Azure subscription	
Cause: This error occurs if the subscription name is not valid or if the Azure Active Directory user who is trying	
to get the subscription details is not configured as an admin of the subscription.	
Error You receive the error "The subscription named subscription name cannot be found" when working with the Select-AzureSubscription or Select-AzureKinSubscription credies.	
Resolution:	
Add a second and a second decided Accordance to the first and the first at the first and the first and the	-
Make sule mar you run me Add-AzureAccount Georier funning in Select-AzureSubscription cmolet and if you still see this error message, modify your code by adding the Get-AzureSubscription cmolet following the Add-AzureAccount cmalet and then execute the code. Then verify if the output of Get- AzureSubscription contains your subscription details.	
Authentication to Azure failed due to MFA being enabled	-
Cause: If you have multi-factor authentication on your Azure account, you can't use an Azure Active Directory user to authenticate to Azure. Instead, you need to use a certificate or a service principal to	
authenticate to Azure.	
Error: You receive the error "Add AzureAccount: AADS1550079-Strong authentication emplement (proof-up) is required" when authenticating to Azure with your Azure username.	
end password.	
Resolution: Use a certificate or a service principal to authenticate to Azure.	
ose a certificate of a service principal to dubic fixede. To Azore.	
	
Runbook fails because of deserialized object	
Cause:	
If your Runbook is a PowerShell Workflow, it stores complex objects in a deserialized format in order to persist your Runbook state if the workflow is suspended.	
Error: Your runtbook fails with the error "Cannot bird parameter" (Parameterbary), Cannot	
convert the dispression (special special properties of the sector (special special spe	
Resolution:	
If you are piping complex objects from one cmdlet to another, wrap these cmdlets in an InlineScript or pass the name or value that you need from the complex object instead of passing the entire object or use a PowerShell Rundbook instead of a PowerShell Workflow Runbook.	
use of omersical nullbook instead of a rower shell morkillow nullbook.	

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Runbook job failed because the allocated quota is exceeded	
Cause:	
This error occurs when the job execution exceeds the 500-minute free quota for your account and applies to all types of job execution tasks such as testing a job, starting a job from the portal, executing	
a job by using Webhooks and scheduling a job to execute by using either the Azure portal or in your datacenter.	
Error: Your runbook jub fails with the error. The sports for the monthly total job run time has been reached for this subscription.	
Resolution: If you want to use more than 500 minutes of processing per month you will need to change your	•
subscription from the Free tier to the Basic tier.	
Cmdlet not recognized when executing a Runbook	
<u>Cause:</u>	
This error is caused when the PowerShell engine cannot find the cmdlet you are using in your Runbook. This could be because the module containing the cmdlet is missing from the account, there is a name conflict with a Runbook name, or the cmdlet also exists in another module and Automation cannot	
resolve the name.	
Error: Your runbook jub hith with the error "realist needs: The term realist, need in not	
recognized as the name of a crediet, function, unjut file, or operable program."	-
Resolution:	
Check that you have entered the cmdlet name correctly or make sure the cmdlet exists in your Automation account and that there are no conflicts or if you do have a name conflict and the cmdlet is	
available in two different modules, you can resolve this by using the fully qualified name for the cridlet.	
	-
Runbook job repeatedly evicted from the same checkpoint	
Runbook Job repeatedly evicted from the same checkpoint	
Cause: This is by design behavior due to the "Fair Share" monitoring of processes within Azure Automation,	
which automatically suspends a Runbook if it executes longer than 3 hours.	
Error A long running runbook consistently falls with the exception. The job cannot continue running because it was repeatedly existed from the same checkpoint".	
Resolution:	
Use Checkpoints in a workflow	

	1
Module fails to import or cmdlets can't be executed after importing	
Cause:	
The structure does not match the structure that Automation needs it to be in or the module is dependent on another module that has not been deployed to your Automation account or the module	
is missing its dependencies in the folder.	
Error: A module fails to import or imports successfully, but no ordilets are extracted.	
Resolution:	
Make sure that the module follows the following format: ModuleName.Zip -> ModuleName or Version Number -> (ModuleName.psm1, ModuleName.psd1) or open the .psd1 file and see if the module has	
any dependencies. If it does, upload these modules to the Automation account or make sure that any referenced .dlls are present in the module folder.	
DSC node is in failed status with a "Not found" error	
Cause:	
This error typically occurs when the node is assigned to a configuration name (e.g. ABC) instead of a node configuration name (e.g. ABC.WebServer).	
Empir The rocke has a report with Palled status and continuing the error "The attempt to get	
the action from seven https://www.li/secontents/secont_Les/Nodes/Agentid=segent	
to: UGriDicAction talked because a valid configuration again, connot be found."	
Resolution:	
Make sure that you are assigning the node with "node configuration name" and not the "configuration name. You can assign a node configuration to a node using Azure portal or with a PowerShell cmdlet.	
No node configurations produced when a configuration is compiled	
Cause: When the expression following the Node keyword in the DSC configuration evaluates to \$null then no	
node configurations will be produced.	
Error: Your DSC compilation job suspends with the error. "Compileton completed suspendidy,	
but no node configuration meth wire generated".	
Resolution:	
Make sure that the expression next to the Node keyword in the configuration definition is not evaluating to \$null or if you are passing ConfigurationData when compiling the configuration, make	
sure that you are passing the expected values that the configuration requires from ConfigurationData.	
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Resolution: Make sure to pass in the proper ConfigurationData to set PSDscAllowPlainTextPassword to true for each node configuration mentioned in the configuration The configuration mentioned in the configuration m	"System/results/Operation/Exception arror processing property "Credential" of type	
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