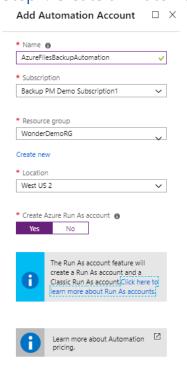
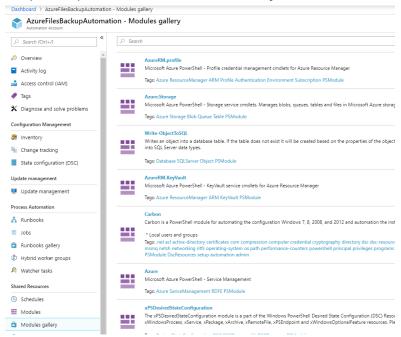
Automate On-demand backup for Azure File Shares using PowerShell for Azure Backup

Steps to automate using Azure Automation

Step1: Create an Automation resource with "Run As" account



Step2: Import modules from Gallery in the Automation resource

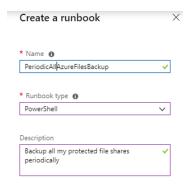


Import the following modules from the Modules gallery in the order given below:

- 1. AzureRM.Profile
- 2. AzureRM.RecoveryServices
- 3. AzureRM.RecoveryServices.Backup

Step3: Create PowerShell Runbooks in the Automation Resource

You can create multiple Runbooks based on which set of File shares you want to protect. In the example that will be shown below, a runbook is created to enable periodic backups for all protected file shares in a subscription.



Step4: Edit the Runbook

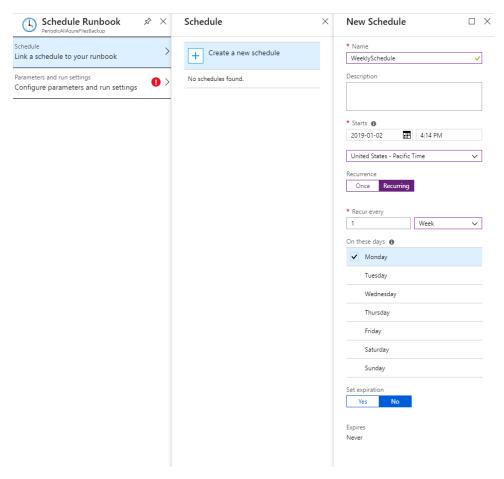
Edit the Runbook and write script to choose which file shares to take a backup. You can create scripts that suit your requirements.

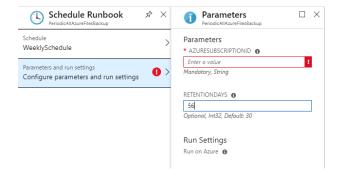
- Save the script
- Test the script using "Test Pane"
- Publish the Runbook

A sample script to take a backup of all file shares in a subscription can be found in Appendix.

Step5: Schedule the Runbook

While scheduling the Runbook, you can pass on the parameters required for the PowerShell Script. The sample script takes the retention as an input. So, if you need to schedule a weekly snapshot and retain for 8 weeks, create a weekly schedule as mentioned below and specify the retention as 56 days (8 weeks). You can do create monthly and yearly schedules (run every 12 months) in a similar manner.





You can monitor the success/failure of these backups using the "Jobs" tab of Runbooks

Appendix

Sample Script

```
An example runbook which takes On-demand backup for all file shares protected by Azure Backup in a subscription using
the Run As Account (Service Principal)
  .NOTES
    AUTHOR: Azure Backup
    LASTEDIT: 12/25/18
#>
Param
    [Parameter(Mandatory=$true)][ValidateNotNullOrEmpty()]
    $AzureSubscriptionId,
    [Parameter(Mandatory=$true)][ValidateNotNullOrEmpty()]
    $RetentionDays=30
$connectionName = "AzureRunAsConnection"
  # Get the connection "AzureRunAsConnection"
  \$service Principal Connection = Get-Automation Connection - Name \ \$connection Name
  "Logging in to Azure..."
  Add-AzureRmAccount `
    -ServicePrincipal
    -TenantId $servicePrincipalConnection.TenantId `
    -ApplicationId $servicePrincipalConnection.ApplicationId `
    -Certificate Thumbprint \\ \$service Principal Connection. Certificate Thumbprint \\
catch {
  if (!$servicePrincipalConnection)
    $ErrorMessage = "Connection $connectionName not found."
    throw $ErrorMessage
  } else{
    Write-Error - Message $_. Exception
```

```
throw $_.Exception
     }
Select-AzureRmSubscription -SubscriptionId $AzureSubscriptionId
#Get all ARM vault resources from all resource groups
$vaults = Get-AzureRmRecoveryServicesVault
$currentDate = Get-Date
$RetailTill = $currentDate.AddDays($RetentionDays)
Write-Output ("Recoverypoints will be retained till " + $RetailTill)
foreach ($vault in $vaults)
      Write-Output ("Working on Vault: " + $vault.Name)
      Set-AzureRmRecoveryServicesVaultContext -Vault $vault
      $containers = Get-AzureRmRecoveryServicesBackupContainer -ContainerType AzureStorage
      Write-Output ("Got # of Backup Containers: " + $containers.Count)
      ForEach ($container in $containers)
             Write-Output ("Working on container: " + $container.FriendlyName)
             fileshares = Get-AzureRmRecoveryServicesBackupItem - WorkloadType AzureFiles - Container $ container
             Write-Output ("Got # of Backup Items/shares: " + $fileshares.Count)
             ForEach($fileShare in $fileshares)
                Write-Output ("Working on FileShare: " + $fileShare.Name)
               Backup-AzureRmRecoveryServicesBackupItem-Item~\$fileShare-ExpiryDateTimeUTC~\$RetailTill
             Write-Output ("")
      Write-Output ("")
```