Windows PowerShell Get-Help on Cmdlet 'Get-AzRecoveryServicesBackupRecoveryPoint'

PS:\>Get-HELP Get-AzRecoveryServicesBackupRecoveryPoint -Full

NAME

Get-AzRecoveryServicesBackupRecoveryPoint

SYNOPSIS

Gets the recovery points for a backed up item.

SYNTAX

Get-AzRecoveryServicesBackupRecoveryPoint [[-StartDate] <System.Nullable`1[System.DateTime]>] [[-EndDate] <System.Nullable`1[System.DateTime]>] [-Item] <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.ItemBase> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-IsReadyForMove <System.Boolean>] [-TargetTier {VaultArchive}] [-Tier {VaultStandard | Snapshot | VaultArchive | VaultStandardRehydrated | SnapshotAndVaultStandard | SnapshotAndVaultArchive}] [-UseSecondaryRegion] [-VaultId <System.String>] [<CommonParameters>]

Get-AzRecoveryServicesBackupRecoveryPoint [-Item] <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.ItemBase> [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>] [-IsReadyForMove

<System.Boolean>] [-TargetTier {VaultArchive}] [-Tier

{VaultStandard | Snapshot | VaultArchive | VaultStandardRehydrated | SnapshotAndVaultStandard | SnapshotAndVaultArchive}] [-UseSecondaryRegion] [-VaultId

<System.String>] [<CommonParameters>]

Get-AzRecoveryServicesBackupRecoveryPoint [-RecoveryPointId] <System.String> [-Item] <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.ItemBase>

[[-KeyFileDownloadLocation] <System.String>] [-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>]

[-UseSecondaryRegion] [-VaultId <System.String>] [<CommonParameters>]

DESCRIPTION

The Get-AzRecoveryServicesBackupRecoveryPoint cmdlet gets the recovery points for a backed up Azure Backup item. After an item has been backed up, an

AzureRmRecoveryServicesBackupRecoveryPoint object has one or more recovery points. Set the vault context by using the -VaultId parameter.

PARAMETERS

-DefaultProfile <Microsoft.Azure.Commands.Common.Authentication.Abstractions.Core.IAzureContextContainer>

The credentials, account, tenant, and subscription used for communication with azure.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-EndDate <System.Nullable`1[System.DateTime]>

Specifies the end of the date range.

Required? false

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-IsReadyForMove <System.Boolean>

Filters the Recovery Points based on whether RP is Ready to move to target tier. Use this along with target tier parameter.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Item <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.ItemBase>

Specifies the item for which this cmdlet gets recovery points. To obtain an AzureRmRecoveryServicesBackupItem object, use the Get-AzRecoveryServicesBackupItem

cmdlet.

Required? true

Position? 2

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

-KeyFileDownloadLocation <System.String>

Specifies the location to download the input file to restore the KeyVault key for an encrypted virtual machine.

Required? false

Position? 2

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-RecoveryPointId <System.String>

Specifies the recovery point ID.

Required? true

Position? 1

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-StartDate <System.Nullable`1[System.DateTime]>

Specifies the start of the date range.

Required? false

Position? 0

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-TargetTier <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.RecoveryPointTier>

Target tier to check move readiness of recovery point. Currently only valid value is 'VaultArchive'.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-Tier <Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.RecoveryPointTier>

Filter recovery points based on tier value.

Required? false

Position? named

Default value None

Accept pipeline input? False

Accept wildcard characters? false

-UseSecondaryRegion <System.Management.Automation.SwitchParameter>

Filters from Secondary Region for Cross Region Restore

Required? false

Position? named

Default value False

Accept pipeline input? False

Accept wildcard characters? false

-VaultId <System.String>

ARM ID of the Recovery Services Vault.

Required? false

Position? named

Default value None

Accept pipeline input? True (ByValue)

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,

ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see

about_CommonParameters (https:/go.microsoft.com/fwlink/?LinkID=113216).

INPUTS

Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.ItemBase

System.String

OUTPUTS

Microsoft.Azure.Commands.RecoveryServices.Backup.Cmdlets.Models.RecoveryPointBase

NOTES

Example 1: Get recovery points from the last week for an item

```
$vault = Get-AzRecoveryServicesVault -ResourceGroupName "resourceGroup" -Name "vaultName"
$startDate = (Get-Date).AddDays(-7)
$endDate = Get-Date
$container = Get-AzRecoveryServicesBackupContainer -ContainerType AzureVM -FriendlyName "V2VM" -VaultId $vault.ID
$backupItem = Get-AzRecoveryServicesBackupItem -Container $container -WorkloadType AzureVM -VaultId $vault.ID
$rp = Get-AzRecoveryServicesBackupRecoveryPoint -Item $backupItem -StartDate $startdate.ToUniversalTime() -EndDate $enddate.ToUniversalTime() -VaultId $vault.ID
```

The first command gets vault object based on vaultName. The second command gets the date from seven days ago, and then stores it in the $startDate variable. The

third command gets today's date, and then stores it in the $endDate variable. The fourth command gets AzureVM backup containers, and stores them in the $Container

variable. The fifth command gets the backup item based on workloadType, vaultId and then stores it in the $backupItem variable. The last command gets an array of

recovery points for the item in $BackupItem, and then stores them in the $rp variable.

Example 2: Get recovery points which are ready to be moved to VaultArchive

```
$vault = Get-AzRecoveryServicesVault -ResourceGroupName "resourceGroup" -Name "vaultName"
$startDate = (Get-Date).AddDays(-7).ToUniversalTime()
$endDate = (Get-Date).ToUniversalTime()
 $item = Get-AzRecoveryServicesBackupItem -BackupManagementType "AzureVM" -WorkloadType "AzureVM" -VaultId $vault.ID
 $rp = Get-AzRecoveryServicesBackupRecoveryPoint -StartDate $startDate -EndDate $endDate -VaultId $vault.ID -Item $item[3] `
-IsReadyForMove $true -TargetTier VaultArchive
```

The first command gets vault object based on vaultName. The second command gets the date from seven days ago, and then stores it in the $startDate variable. The third

command gets today's date, and then stores it in the $endDate variable. The fourth command gets backup items based on backupManagementType and workloadType, vaultId

and then stores it in the $item variable. The last command gets an array of recovery points for the item in $backupItem which are ready to be moved to VaultArchive

tier and then stores them in the $rp variable.

----- Example 3: Get recovery points in a particular tier -----

```
$vault = Get-AzRecoveryServicesVault -ResourceGroupName "resourceGroup" -Name "vaultName"
$startDate = (Get-Date).AddDays(-7).ToUniversalTime()
$endDate = (Get-Date).ToUniversalTime()
 $item = Get-AzRecoveryServicesBackupItem -BackupManagementType "AzureVM" -WorkloadType "AzureVM" -VaultId $vault.ID
 $rp = Get-AzRecoveryServicesBackupRecoveryPoint -StartDate $startDate -EndDate $endDate -VaultId $vault.ID -Item $item[3] `
-Tier VaultStandard
```

The first command gets vault object based on vaultName. The second command gets the date from seven days ago, and

then stores it in the $startDate variable. The third

command gets today's date, and then stores it in the $endDate variable. The fourth command gets backup items based on backupManagementType and workloadType, vaultId

and then stores it in the $item variable. The last command gets an array of recovery points for the item in $backupItem which are ready to be moved to VaultArchive

tier and then stores them in the $rp variable.

Example 4: Getting pruned recovery points in last year after modify policy opertaion

```
$vault = Get-AzRecoveryServicesVault -ResourceGroupName "resourceGroup" -Name "vaultName"
$startDate = (Get-Date).AddDays(-365).ToUniversalTime()
$endDate = (Get-Date).ToUniversalTime()
 $item = Get-AzRecoveryServicesBackupItem -BackupManagementType "AzureVM" -WorkloadType "AzureVM" -VaultId $vault.ID
  $rpsBefore = Get-AzRecoveryServicesBackupRecoveryPoint -Item $item[0] -StartDate $startDate -EndDate $endDate -VaultId $vault.ID

# update policy
$pol = Get-AzRecoveryServicesBackupProtectionPolicy -VaultId $vault.ID -Name "policyName"
$pol.RetentionPolicy.IsWeeklyScheduleEnabled = $false
$pol.RetentionPolicy.IsMonthlyScheduleEnabled = $false
$pol.RetentionPolicy.IsYearlyScheduleEnabled = $false
  Set-AzRecoveryServicesBackupProtectionPolicy -Policy $pol -VaultId $vault.ID -RetentionPolicy $pol.RetentionPolicy -Debug

# wait until policy changes are applied to recovery points and they are pruned
  $rpsAfter = Get-AzRecoveryServicesBackupRecoveryPoint -Item $item[0] -StartDate $startDate -EndDate $endDate -VaultId $vault.ID

# compare the recovery points list before and after
$diff = Compare-Object $rpsBefore $rpsAfter
$rpsRemoved = $diff | Where-Object{ $_.SideIndicator -eq'<='} | Select-Object -ExpandProperty InputObject
```

$rpsRemoved

RecoveryPointId	RecoveryPointType	RecoveryPointTime	ContainerName	ContainerType
7397781054902	CrashConsistent	5/2/2023 3:28:35 AM	iaasvmcontainerv2;test-rg;test-vm	AzureVM
9722704411921	CrashConsistent	4/1/2023 3:32:26 AM	iaasvmcontainerv2;test-rg;test-vm	AzureVM
6543100104464	CrashConsistent	3/1/2023 3:26:27 AM	iaasvmcontainerv2;test-rg;test-vm	AzureVM

The first command gets vault object based on vaultName. The second command gets the date from one year days ago, and then stores it in the $startDate variable. The

third command gets today's date, and then stores it in the $endDate variable. The fourth command gets backup items based on backupManagementType and workloadType,

vaultId and then stores it in the $item variable. The fifth command gets an array of recovery points for the item in $item which are present before the modify policy

operation in last one year. Now we move on to update the policy. The sixth command fetches the policy to be updated which is used to protect the backup item

$item[0]. The seventh, eight and ninth commands disable the yearly and monthly retention in the policy to prune the older recovery points. The tenth command finally

updates the retention policy. The eleventh command waits in the same powershell session until the recovery points are pruned and fetches the recovery points within

the same time range, after the policy changes are applied. The twelth command takes a diff between recovery point list before and after pruning occurs. The thirteenth

command read the recovery points, from the diff, which were present before and are now pruned. The last command displays the list of pruned recovery points.

RELATED LINKS

Online Version:

https://learn.microsoft.com/powershell/module/az.recoveryservices/get-azrecoveryservicesbackuprecoverypoint

Get-AzRecoveryServicesBackupContainer

Get-AzRecoveryServicesBackupItem