Windows PowerShell Get-Help on Cmdlet 'Initialize-AzDataProtectionRestoreRequest'

PS:\>Get-HELP Initialize-AzDataProtectionRestoreRequest -Full

NAME

Initialize-AzDataProtectionRestoreRequest

SYNOPSIS

Initializes Restore Request object for triggering restore on a protected backup instance.

SYNTAX

Initialize-AzDataProtectionRestoreRequest -DatasourceType {AzureDisk | AzureBlob | AzureDatabaseForPostgreSQL | AzureKubernetesService | AzureDatabaseForPGFlexServer
| AzureDatabaseForMySQL} -SourceDataStore {ArchiveStore | OperationalStore | VaultStore} -RestoreLocation <String> -RestoreType {AlternateLocation | OriginalLocation
| RestoreAsFiles} -TargetResourceId <String> [-RecoveryPoint <String>] [-PointInTime <DateTime>] [-RehydrationDuration <String>] [-RehydrationPriority <String>]
[-RestoreConfiguration <KubernetesClusterRestoreCriteria>] [-SecretStoreURI <String>] [-SecretStoreType {AzureKeyVault}] [<CommonParameters>]

Initialize-AzDataProtectionRestoreRequest -DatasourceType {AzureDisk | AzureBlob | AzureDatabaseForPostgreSQL | AzureKubernetesService | AzureDatabaseForPGFlexServer
| AzureDatabaseForMySQL} -SourceDataStore {ArchiveStore | OperationalStore | VaultStore} -RestoreLocation <String>

-RestoreType {AlternateLocation | OriginalLocation
| RestoreAsFiles} -TargetResourceId <String> [-RecoveryPoint <String>] [-RestoreConfiguration <KubernetesClusterRestoreCriteria>] -ItemLevelRecovery [-ContainersList
<String[]>] [-PrefixMatch <Hashtable>] [<CommonParameters>]

Initialize-AzDataProtectionRestoreRequest -DatasourceType {AzureDisk | AzureBlob | AzureDatabaseForPostgreSQL | AzureKubernetesService | AzureDatabaseForPGFlexServer
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| RestoreAsFiles} [-RecoveryPoint <String>] [-PointInTime <DateTime>] [-RehydrationDuration <String>] [-RehydrationPriority <String>] [-RestoreConfiguration
<KubernetesClusterRestoreCriteria>] [-SecretStoreURI <String>] [-SecretStoreType {AzureKeyVault}] -BackupInstance <BackupInstanceResource> [<CommonParameters>]

Initialize-AzDataProtectionRestoreRequest -DatasourceType {AzureDisk | AzureBlob | AzureDatabaseForPostgreSQL | AzureKubernetesService | AzureDatabaseForPGFlexServer
| AzureDatabaseForMySQL} -SourceDataStore {ArchiveStore | OperationalStore | VaultStore} -RestoreLocation <String> -RestoreType {AlternateLocation | OriginalLocation
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<KubernetesClusterRestoreCriteria>] [-SecretStoreURI <String>] [-SecretStoreType {AzureKeyVault}] -ItemLevelRecovery [-ContainersList <String[]>] -BackupInstance
<BackupInstanceResource> [-FromPrefixPattern <String[]>] [-ToPrefixPattern <String[]>] [<CommonParameters>]

Initialize-AzDataProtectionRestoreRequest -DatasourceType {AzureDisk | AzureBlob | AzureDatabaseForPostgreSQL | AzureKubernetesService | AzureDatabaseForPGFlexServer
| AzureDatabaseForMySQL} -SourceDataStore {ArchiveStore | OperationalStore | VaultStore} -RestoreLocation <String> -RestoreType {AlternateLocation | OriginalLocation
| RestoreAsFiles} [-RecoveryPoint <String>] [-RehydrationDuration <String>] [-RehydrationPriority <String>] [-SecretStoreURI <String>] [-SecretStoreType
{AzureKeyVault}] -TargetContainerURI <String> [-TargetResourceIdForRestoreAsFile <String>] [-FileNamePrefix <String>] [<CommonParameters>]

DESCRIPTION

Initializes Restore Request object for triggering restore on a protected backup instance.

PARAMETERS

-DatasourceType

Datasource Type

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SourceDataStore

DataStore Type of the Recovery point

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RestoreLocation <String>

Target Restore Location

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RestoreType

Restore Target Type

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-TargetResourceId <String>

Specify the target resource ID for restoring backup data in an alternate location.

For instance, provide the target database ARM ID that you want to restore to, for workloadType AzureDatabaseForPostgreSQL.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RecoveryPoint <String>

Id of the recovery point to be restored.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-PointInTime <DateTime>

Point In Time for restore.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RehydrationDuration <String>

Rehydration duration for the archived recovery point to stay rehydrated, default value for rehydration duration is 15.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RehydrationPriority <String>

Rehydration priority for archived recovery point.

This parameter is mandatory for rehydrate restore of archived points.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-RestoreConfiguration <KubernetesClusterRestoreCriteria>

Restore configuration for restore.

Use this parameter to restore with AzureKubernetesService.

To construct, see NOTES section for RESTORECONFIGURATION properties and create a hash table.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SecretStoreURI <String>

Secret uri for secret store authentication of data source.

This parameter is only supported for AzureDatabaseForPostgreSQL currently.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-SecretStoreType

Secret store type for secret store authentication of data source.

This parameter is only supported for AzureDatabaseForPostgreSQL currently.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-ItemLevelRecovery [<SwitchParameter>]

Switch parameter to enable item level recovery.

Required? true

Position? named

Default value False

Accept pipeline input? false

Accept wildcard characters? false

-ContainersList <String[]>

Container names for Item Level Recovery.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-PrefixMatch <Hashtable>

Use this parameter to filter block blobs by prefix in a container for alternate location ILR.

When you specify a prefix, only blobs matching that prefix in the container will be restored.

Input for this parameter is a hashtable where each key is a container name and each value is an array of string prefixes for that container.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-TargetContainerURI <String>

Target storage account container Id to which backup data will be restored as files.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-TargetResourceIdForRestoreAsFile <String>

Target storage account container ARM Id to which backup data will be restored as files.

This parameter is required for restoring as files when cross subscription restore is disabled on the backup vault.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-FileNamePrefix <String>

File name to be prefixed to the restored backup data.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-BackupInstance <BackupInstanceResource>

Backup Instance object to trigger original localtion restore.

To construct, see NOTES section for BACKUPINSTANCE properties and create a hash table.

Required? true

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-FromPrefixPattern <String[]>

Specify the blob restore start range for PITR.

You can use this option to specify the starting range for a subset of blobs in each container to restore.

use a forward slash (/) to separate the container name from the blob prefix pattern.

Required? false

Position? named

Default value

Accept pipeline input? false

Accept wildcard characters? false

-ToPrefixPattern <String[]>

Specify the blob restore end range for PITR.

You can use this option to specify the ending range for a subset of blobs in each container to restore.

use a forward slash (/) to separate the container name from the blob prefix pattern.

Required? false

Position? named

Default value

Accept pipeline input? false

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

OUTPUTS

Microsoft.Azure.PowerShell.Cmdlets.DataProtection.Models.Api20240401.IAzureBackupRestoreRequest

NOTES

COMPLEX PARAMETER PROPERTIES

To create the parameters described below, construct a hash table containing the appropriate properties. For information on hash tables, run Get-Help

about_Hash_Tables.

BACKUPINSTANCE <BackupInstanceResource>: Backup Instance object to trigger original localtion restore.

[Property <IBackupInstance>]: BackupInstanceResource properties

DataSourceInfo <IDatasource>: Gets or sets the data source information.

ResourceId <String>: Full ARM ID of the resource. For azure resources, this is ARM ID. For non azure resources, this will be the ID created by backup

service via Fabric/Vault.

[ObjectType <String>]: Type of Datasource object, used to initialize the right inherited type

[ResourceLocation <String>]: Location of datasource.

[ResourceName <String>]: Unique identifier of the resource in the context of parent.

[ResourceType <String>]: Resource Type of Datasource.

[ResourceUri <String>]: Uri of the resource.

[Type <String>]: DatasourceType of the resource.

ObjectType <String>:

PolicyInfo <IPolicyInfo>: Gets or sets the policy information.

PolicyId <String>:

[PolicyParameter <IPolicyParameters>]: Policy parameters for the backup instance

[BackupDatasourceParametersList <IBackupDatasourceParameters[]>]: Gets or sets the Backup Data Source Parameters

ObjectType <String>: Type of the specific object - used for deserializing

[DataStoreParametersList <IDataStoreParameters[]>]: Gets or sets the DataStore Parameters

DataStoreType <DataStoreTypes>: type of datastore; Operational/Vault/Archive

ObjectType <String>: Type of the specific object - used for deserializing

[DataSourceSetInfo <IDatasourceSet>]: Gets or sets the data source set information.

ResourceId <String>: Full ARM ID of the resource. For azure resources, this is ARM ID. For non azure resources, this will be the ID created by backup

service via Fabric/Vault.

[DatasourceType <String>]: DatasourceType of the resource.

[ObjectType <String>]: Type of Datasource object, used to initialize the right inherited type

[ResourceLocation <String>]: Location of datasource.

[ResourceName <String>]: Unique identifier of the resource in the context of parent.

[ResourceType <String>]: Resource Type of Datasource.

[ResourceUri <String>]: Uri of the resource.

[DatasourceAuthCredentials <IAuthCredentials>]: Credentials to use to authenticate with data source provider.

ObjectType <String>: Type of the specific object - used for deserializing

[FriendlyName <String>]: Gets or sets the Backup Instance friendly name.

[IdentityDetail <IIdentityDetails>]: Contains information of the Identity Details for the BI. If it is null, default will be considered as System

Assigned.

[UseSystemAssignedIdentity <Boolean?>]: Specifies if the BI is protected by System Identity.

[UserAssignedIdentityArmUrl <String>]: ARM URL for User Assigned Identity.

[ResourceGuardOperationRequest <String[]>]: ResourceGuardOperationRequests on which LAC check will be performed

[ValidationType <ValidationType?>]: Specifies the type of validation. In case of DeepValidation, all validations from /validateForBackup API will run again.

[Tag <IDppProxyResourceTags>]: Proxy Resource tags.

[(Any) <String>]: This indicates any property can be added to this object.

RESTORECONFIGURATION <KubernetesClusterRestoreCriteria>: Restore configuration for restore. Use this parameter to restore with AzureKubernetesService.

IncludeClusterScopeResource <Boolean>: Gets or sets the include cluster resources property. This property if enabled will include cluster scope resources during

restore.

ObjectType <String>: Type of the specific object - used for deserializing

[ConflictPolicy <ExistingResourcePolicy?>]: Gets or sets the Conflict Policy property. This property sets policy during conflict of resources during restore.

[ExcludedNamespace <String[]>]: Gets or sets the exclude namespaces property. This property sets the namespaces to be excluded during restore.

[ExcludedResourceType <String[]>]: Gets or sets the exclude resource types property. This property sets the resource types to be excluded during restore.

[IncludedNamespace <String[]>]: Gets or sets the include namespaces property. This property sets the namespaces to be included during restore.

[IncludedResourceType <String[]>]: Gets or sets the include resource types property. This property sets the resource types to be included during restore.

[LabelSelector <String[]>]: Gets or sets the LabelSelectors property. This property sets the resource with such label selectors to be included during restore.

[NamespaceMapping <IKubernetesClusterRestoreCriteriaNamespaceMappings>]: Gets or sets the Namespace Mappings property. This property sets if namespace needs to

be change during restore.

[(Any) <String>]: This indicates any property can be added to this object.

[PersistentVolumeRestoreMode <PersistentVolumeRestoreMode?>]: Gets or sets the PV (Persistent Volume) Restore Mode property. This property sets whether volumes

needs to be restored.

[ResourceModifierReferenceName <String>]: Name of the resource

[ResourceModifierReferenceNamespace <String>]: Namespace in which the resource exists

[RestoreHookReference <INamespacedNameResource[]>]: Gets or sets the restore hook references. This property sets the hook reference to be executed during

restore.

[Name <String>]: Name of the resource

[Namespace <String>]: Namespace in which the resource exists

---------- EXAMPLE 1 ----------

PS C:\>$instance = Get-AzDataProtectionBackupInstance -SubscriptionId "xxxx-xxx-xxx" -ResourceGroupName "sarath-rg" -VaultName "sarath-vault"

$rp = Get-AzDataProtectionRecoveryPoint -SubscriptionId "xxx-xxx-xxx" -ResourceGroupName "sarath-rg" -VaultName "sarath-vault" -BackupInstanceName $instance.Name

Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureDisk -SourceDataStore OperationalStore -RestoreLocation "westus" -RestoreType AlternateLocation

-TargetResourceId "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroup}/providers/Microsoft.Compute/disks/{DiskName}"

-RecoveryPoint

"892e5c5014dc4a96807d22924f5745c9"

---------- EXAMPLE 2 ----------

PS C:\>$startTime = (Get-Date).AddDays(-30).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$endTime = (Get-Date).AddDays(0).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$instance = Get-AzDataProtectionBackupInstance -SubscriptionId "xxxx-xxx-xxx" -ResourceGroupName "rgName" -VaultName "vaultName"

$pointInTimeRange = Find-AzDataProtectionRestorableTimeRange -BackupInstanceName $instance[0].BackupInstanceName -ResourceGroupName "rgName" -SubscriptionId "subscriptionId" -VaultName "vaultName" -SourceDataStoreType OperationalStore -StartTime $startTime -EndTime $endTime

Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureBlob -SourceDataStore OperationalStore -RestoreLocation $vault.Location -RestoreType OriginalLocation -BackupInstance $instance[0] -PointInTime (Get-Date -Date $pointInTimeRange.RestorableTimeRange.EndTime)

---------- EXAMPLE 3 ----------

PS C:\>$startTime = (Get-Date).AddDays(-30).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$endTime = (Get-Date).AddDays(0).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$instance = Get-AzDataProtectionBackupInstance -SubscriptionId "xxxx-xxx-xxx" -ResourceGroupName "rgName" -VaultName "vaultName"

$pointInTimeRange = Find-AzDataProtectionRestorableTimeRange -BackupInstanceName $instance[0].BackupInstanceName -ResourceGroupName "rgName" -SubscriptionId "subscriptionId" -VaultName "vaultName" -SourceDataStoreType OperationalStore -StartTime $startTime -EndTime $endTime

Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureBlob -SourceDataStore OperationalStore -RestoreLocation $vault.Location -RestoreType OriginalLocation -BackupInstance $instances[0] -PointInTime (Get-Date).AddDays(-1) -ItemLevelRecovery -ContainersList "containerName1","containerName2"

---------- EXAMPLE 4 ----------

PS C:\>$startTime = (Get-Date).AddDays(-30).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$endTime = (Get-Date).AddDays(0).ToString("yyyy-MM-ddTHH:mm:ss.0000000Z")

$instance = Get-AzDataProtectionBackupInstance -SubscriptionId "xxxx-xxx-xxx" -ResourceGroupName "rgName" -VaultName "vaultName"

$pointInTimeRange = Find-AzDataProtectionRestorableTimeRange -BackupInstanceName $instance[0].BackupInstanceName -ResourceGroupName "rgName" -SubscriptionId "subscriptionId" -VaultName "vaultName" -SourceDataStoreType OperationalStore -StartTime $startTime -EndTime $endTime

Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureBlob -SourceDataStore OperationalStore -RestoreLocation $vault.Location -RestoreType OriginalLocation

-BackupInstance $instances[0] -PointInTime (Get-Date).AddDays(-1) -ItemLevelRecovery -FromPrefixPattern "container1/aaa","container1/ccc", "container2/aab",

"container3" -ToPrefixPattern "container1/bbb","container1/ddd", "container2/abc", "container3-0"

---------- EXAMPLE 5 ----------

PS C:\>$vault = Search-AzDataProtectionBackupVaultInAzGraph -ResourceGroup $ResourceGroupName -Subscription $SubscriptionId -Vault $VaultName

$instance = Search-AzDataProtectionBackupInstanceInAzGraph -Subscription $subscriptionId -ResourceGroup $resourceGroupName -Vault $vaultName -DatasourceType

AzureDatabaseForPostgreSQL

$recoveryPointsCrr = Get-AzDataProtectionRecoveryPoint -BackupInstanceName $instance.Name -ResourceGroupName $resourceGroupName -VaultName $vaultName -SubscriptionId

$subscriptionId -UseSecondaryRegion

$targetResourceId = "/subscriptions/xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx/resourceGroups/{targetResourceGroupName}/providers/Microsoft.DBforPostgreSQL/servers/{targetServerName}/databases/{targetDatabaseName}"

$secretURI = "https://{crr-key-vault}.vault.azure.net/secrets/{secret-for-crr}"

$OssRestoreReq = Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureDatabaseForPostgreSQL -SourceDataStore VaultStore -RestoreLocation $vault.ReplicatedRegion[0] -RestoreType AlternateLocation -RecoveryPoint $recoveryPointsCrr[0].Property.RecoveryPointId -TargetResourceId $targetResourceId -SecretStoreURI $secretURI -SecretStoreType AzureKeyVault

---------- EXAMPLE 6 ----------

PS C:\>$vault = Search-AzDataProtectionBackupVaultInAzGraph -ResourceGroup $ResourceGroupName -Subscription $SubscriptionId -Vault $VaultName

$instance = Search-AzDataProtectionBackupInstanceInAzGraph -Subscription $subscriptionId -ResourceGroup $resourceGroupName -Vault $vaultName -DatasourceType AzureDatabaseForPostgreSQL

$recoveryPointsCrr = Get-AzDataProtectionRecoveryPoint -BackupInstanceName $instance.Name -ResourceGroupName $resourceGroupName -VaultName $vaultName -SubscriptionId $subscriptionId -UseSecondaryRegion

$targetContainerURI = "https://{targetStorageAccountName}.blob.core.windows.net/{targetContainerName}"

$fileNamePrefix = "oss-pstest-crrasfiles"

$OssRestoreReq = Initialize-AzDataProtectionRestoreRequest -DatasourceType AzureDatabaseForPostgreSQL -SourceDataStore VaultStore -RestoreLocation $vault.ReplicatedRegion[0] -RestoreType RestoreAsFiles -RecoveryPoint $recoveryPointsCrr[0].Property.RecoveryPointId -TargetContainerURI $targetContainerURI -FileNamePrefix $fileNamePrefix

RELATED LINKS

https://learn.microsoft.com/powershell/module/az.dataprotection/initialize-azdataprotectionrestorerequest