

# How to Use New-ASRStorageClassificationMapping in PowerShell

The New-ASRStorageClassificationMapping cmdlet is part of the Azure Site Recovery (ASR) module in PowerShell. It is used to create a mapping between storage classifications in different Azure regions, which is essential for setting up disaster recovery scenarios. This cmdlet is specifically applicable in environments where Azure Site Recovery is used for business continuity and disaster recovery (BCDR) solutions.

## Understanding Storage Classification Mapping

Storage classification mapping is a process where you define how storage resources in one region correspond to storage resources in another. This is crucial when replicating virtual machines (VMs) across regions to ensure that the storage requirements are met in the target region.

## Prerequisites

Before using the New-ASRStorageClassificationMapping cmdlet, ensure that:

1. You have installed the Azure PowerShell module.
2. You have the necessary permissions to create mappings in your Azure subscription.
3. You have already set up Azure Site Recovery and have storage classifications defined in both source and target regions.

## Examples

### Example 1: Creating a Storage Classification Mapping

```
# Import the Azure Site Recovery module
Import-Module Az.RecoveryServices

# Login to your Azure account
Connect-AzAccount

# Select the subscription
Select-AzSubscription -SubscriptionId "your-subscription-id"

# Define the resource group and vault name
$resourceGroupName = "YourResourceGroup"
$vaultName = "YourRecoveryServicesVault"

# Get the Recovery Services vault
$vault = Get-AzRecoveryServicesVault -ResourceGroupName $resourceGroupName
-Name $vaultName
```

```
# Get the storage classifications from the source and target regions
$sourceStorageClassification = Get-AzRecoveryServicesAsrStorageClassificat
ion -VaultId $vault.ID | Where-
Object { $_.Name -eq "SourceStorageClassificationName" }
$targetStorageClassification = Get-AzRecoveryServicesAsrStorageClassificat
ion -VaultId $vault.ID | Where-
Object { $_.Name -eq "TargetStorageClassificationName" }

# Create the storage classification mapping
New-AzRecoveryServicesAsrStorageClassificationMapping -Name "MyStorageMapp
ing" -VaultId $vault.ID -PrimaryStorageClassificationId $sourceStorageClas
sification.ID -RecoveryStorageClassificationId $targetStorageClassificatio
n.ID
```

## Example 2: Verifying the Storage Classification Mapping

```
# List all storage classification mappings
Get-AzRecoveryServicesAsrStorageClassificationMapping -VaultId $vault.ID
```

This will display all the mappings, allowing you to verify that your new mapping was created successfully.

## Conclusion

Using the `New-ASRStorageClassificationMapping` cmdlet is a straightforward process once you have your Azure environment and storage classifications set up. This cmdlet is a part of the Azure Site Recovery toolkit, which is essential for ensuring business continuity by enabling seamless disaster recovery solutions.