

Introduction

This document describes differences between old snapin cmdlets and new autorest generated ones.

Common Old/New Differences

- Old cmdlets accept `-wait` timeout parameter; new ones do not.
- Old cmdlets return task object with task/site ids; new return task id string which is task/site ids dot-concatenated which can be used as `TaskId` parameter at `Get-ZvmTask -TaskId 'TaskId'`.
- New cmdlets support `data` object which allows to pass cmdlets parameters as single object instead of separate cmdlet parameters. When `data` is present it means that corresponding REST method has a body.

Examples

Cmdlets

- Authentication parameters are removed. New cmdlets use `Connect-Zvm` cmdlet instead of passing credentials each time.
- Usually first parameter in `Params` is mandatory one. Other parameters are optional.
- Empty parameter cell means that it is unsupported.

Not existing in the new module

Backup

- Abort-Backup
- Start-Backup

Backup is no longer supported by REST API. LTR might be the substitute.

Import/Export Settings

- Export-Settings
- Import-Settings

One can get VPG settings; however they might not have all the properties set, e.g. VM list.

Clone-VPG

Clones the virtual machines in the VPG in the recovery site.

| | Old | New |
|--|-----|-----|
| | | |

| | Old | New |
|---------|------------------------|-------------------|
| Cmdlet | Clone-VPG | Start-ZvmVpgClone |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | Checkpoint | Data |
| | CheckpointDateTime | |
| | CheckpointID | CheckpointId |
| | Datastore | DatastoreId |
| | | VmIdentifiers |
| | | Data |

Force-Sync

The `Force-Sync` cmdlet synchronizes the VPG from scratch, using the MD5 Message-Digest Algorithm. This cmdlet is used when the replicated disks are no longer synchronized with the protected disks, for example, after rolling back from a VMware snapshot.

| | Old | New |
|---------|------------------------|-----------------------|
| Cmdlet | Force-Sync | Start-ZvmVpgForceSync |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |

ForceRemove-ProtectionGroup/Unprotect-Vpg

The `ForceRemove-ProtectionGroup` cmdlet deletes the VPG regardless of its state. The target disks for the VPG managed by the VRA on the recovery site are kept when the VPG is removed.

The `Unprotect-vpg` cmdlet unprotects all the virtual machines being protected by the VPG by removing the VPG definition. The cmdlet cannot be executed when the VPG is being created or during the initial synchronization nor during a test failover, an actual failover, or a move operation, on the VPG.

| | Old | New |
|---------|-----------------------------|--------------------|
| Cmdlet | ForceRemove-ProtectionGroup | Start-ZvmVpgDelete |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | | Force |
| | | Data |

| | Old | New |
|--|-----|-----|
|--|-----|-----|

| | Old | New |
|---------|------------------------|---------------------|
| Cmdlet | Unprotect-Vpg | Start-ZvmVpgDelete |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | DeleteTargetDisks | KeepRecoveryVolumes |
| | | Data |

Get-Checkpoints

The `Get-Checkpoints` cmdlet gets all the checkpoints from the journal for the specified VPG.

| | Old | New |
|---------|------------------------|----------------------|
| Cmdlet | Get-Checkpoints | Get-ZvmVpgCheckpoint |
| Returns | Checkpoint object(s) | Checkpoint object(s) |
| Params | VirtualProtectionGroup | VpgId |
| | | EndDate |
| | | StartDate |
| | | CheckpointId |

Get-LicenseInfo

Get Zerto Virtual Manager license information.

| | Old | New |
|---------|-----------------|----------------|
| Cmdlet | Get-LicenseInfo | Get-ZvmLicense |
| Returns | License object | License object |

Get-ProtectionGroups

The `Get-ProtectionGroups` cmdlet gets all the VPGs defined on a specified site and on any other site paired with the specified site.

| | Old | New |
|---------|----------------------|-----------------|
| Cmdlet | Get-ProtectionGroups | Get-ZvmVpg |
| Returns | List of VPGs | VPG object(s) |
| Params | SiteName | ProtectedSiteId |
| | | RecoverySiteId |
| | | BackupEnabled |

| | Old | New |
|--|-----|-------------------|
| | | VpgName |
| | | OrgName |
| | | Priority |
| | | ProtectedSiteType |
| | | RecoverySiteType |
| | | ServiceProfile |
| | | SourceSite |
| | | SourceType |
| | | Status |
| | | SubStatus |
| | | TargetSite |
| | | TargetType |
| | | ZorgId |

Get-Sites

The `Get-Sites` cmdlet gets all the sites paired with the site where the Zerto Virtual Manager is installed that is used to process the cmdlet.

| | Old | New |
|---------|----------------------|---------------------|
| Cmdlet | Get-Sites | Get-ZvmPeer |
| Returns | List of paired sites | Peer site object(s) |
| Params | | HostName |
| | | SiteId |
| | | Location |
| | | PairingStatus |
| | | PeerName |
| | | Port |

Get-VmsReplicatingToHost

The `Get-VmsReplicatingToHost` cmdlet gets the list of all the protected virtual machines for which the specified host VRA is being used to manage the replication and recovery.

| | Old | New |
|--|-----|-----|
|--|-----|-----|

| | Old | New |
|---------|--------------------------|-----------|
| Cmdlet | Get-VmsReplicatingToHost | See below |
| Returns | List of VMs | |
| Params | HostIp | |

Might be achieved by combination of `Get-ZvmVpg`, `Get-ZvmVm`, `Get-ZvmVirtualizationSiteHost` cmdlets. Not verified.

Pause-ProtectionGroup

The `Pause-ProtectionGroup` cmdlet pauses protection of a specified VPG, but recovery to the last checkpoint is still possible. A VPG can be paused when the available bandwidth between the protected and recovery sites is needed for other purposes.

| | Old | New |
|---------|------------------------|-------------------|
| Cmdlet | Pause-ProtectionGroup | Start-ZvmVpgPause |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpId |

Resume-ProtectionGroup

The `Resume-ProtectionGroup` cmdlet resumes the protection of a specified VPG. Resuming protection increases bandwidth usage between the protected and recovery sites. A Bitmap Sync will probably occur after the protection is resumed.

| | Old | New |
|---------|------------------------|--------------------|
| Cmdlet | Resume-ProtectionGroup | Start-ZvmVpgResume |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpId |

Set-ChangeRecoveryHost

The `Set-ChangeRecoveryHost` cmdlet sets the host used to recover the specified protected virtual machine to the specified new host, as long as the specified new host can access that storage used by the VRA in the old host.

New allows multiple host changes at a time.

| | Old | New |
|---------|------------------------|---------------------------------|
| Cmdlet | Set-ChangeRecoveryHost | Start-ZvmVraChangeRecoveryHost |
| Returns | Task id | Task id |
| Params | VmName | VmsAllocations[].VmIdentifier |
| | NewTargetHost | VmsAllocations[].HostIdentifier |

| | Old | New |
|--|-------------------|-------|
| | CurrentTargetHost | Vrald |
| | | Data |

Set-Checkpoint

The `Set-Checkpoint` cmdlet sets a checkpoint for the specified VPG.

| | Old | New |
|---------|------------------------|------------------------------------|
| Cmdlet | Set-Checkpoint | Start-ZvmVpgTaggedCheckpointInsert |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | Tag | CheckpointName |
| | | Data |

Set-License

The `Set-License` cmdlet adds a license to a site.

| | Old | New |
|--------|-------------|----------------|
| Cmdlet | Set-License | Set-ZvmLicense |
| Params | LicenseKey | LicenseKey |
| | | Data |

Set-Pair

The `Set-Pair` cmdlet pairs the current site with another, peer site.

| | Old | New |
|---------|--------------|---------------|
| Cmdlet | Set-Pair | Start-ZvmPair |
| Returns | Task id | Task id |
| Params | PeerSiteIp | HostName |
| | PeerSitePort | Port |
| | | Token |
| | | Data |

`Set-Pair` doesn't support token. To fetch it use `Get-ZvmPairingToken` cmdlet.

Start-FailoverTest

The `Start-FailoverTest` cmdlet starts a failover test for a specified VPG using a specific checkpoint. If the VPG belongs to a ZORG, then you can specify the ZORG as well. When the Zerto Virtual Manager is paired with multiple sites the VPGs can be from any of these paired sites, as long as they were either protected or recovered to the site of the Zerto Virtual Manager where the cmdlet is run.

| | Old | New |
|---------|------------------------------|--------------------------|
| Cmdlet | Start-FailoverTest | Start-ZvmVpgFailoverTest |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | ZertoOrganization | |
| | CheckpointDateTime | |
| | CheckpointID | CheckpointId |
| | IsContinueOnPreScriptFailure | |
| | | VmIdentifiers |
| | | Data |

Stop-FailoverTest

The `Stop-FailoverTest` cmdlet stops a failover test for a specified VPG. When the Zerto Virtual Manager is paired with multiple sites the VPGs can be from any of these paired sites, as long as they were either protected or recovered to the site of the Zerto Virtual Manager where the cmdlet is run.

| | Old | New |
|---------|------------------------|-------------------------|
| Cmdlet | Stop-FailoverTest | Stop-ZvmVpgFailoverTest |
| Returns | Task id | Task id |
| Params | VirtualProtectionGroup | VpgId |
| | IsPassed | FailoverTestSuccess |
| | FailoverSummary | FailoverTestSummary |
| | ZertoOrganization | |
| | | Data |