

PowerShell Integration with VMware® View™ 4.5/4.6

TECHNICAL WHITE PAPER

mware[®]

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Introduction

VMware View

VMware® View™ is a best-in-class enterprise desktop virtualization platform. VMware View separates the personal desktop environment from the physical system by moving desktops to a datacenter, where users can access them using a client-server computing model. VMware View delivers a rich set of features required for any enterprise deployment by providing a robust platform for hosting virtual desktops from VMware vSphere™.

Windows PowerShell

Windows PowerShell is Microsoft's command line shell and scripting language. PowerShell is built on the Microsoft .NET Framework and helps in system administration. By providing full access to COM (Component Object Model) and WMI (Windows Management Instrumentation), PowerShell enables administrators to perform administrative tasks on both local and remote Windows systems.

Administrators can manage the computers in the enterprise and perform administrative tasks from the command line using built-in cmdlets, which are specialized .NET classes. Unlike most other command line interfaces, PowerShell commands have been standardized using a verb-noun naming convention known as a cmdlet. This convention provides a clear description of the cmdlet, and enables access to different Windows components like the registry, file system, services, processes, and others. There are sufficient cmdlets to support most administrative activities.

This technical paper covers the integration of VMware View PowerCLI with Windows PowerShell and VMware vSphere PowerCLI.

Architecture

Cmdlet dll

VMware View PowerCLI cmdlets are provided by a dll, which is installed as part of the VMware View Connection Server (server\bin\PowershellserviceCmdlets.dll) under the VMware Connection Server installation). This dll, once registered with PowerShell, allows all VMware View PowerCLI cmdlets to be run on the VMware Connection Server.



Communication with Broker

VMware View PowerCLI cmdlets send requests to the VMware Connection Server, using RPC-like calls to a service running under the VMware View Connection Broker service. As a result, the VMware View PowerCLI cmdlets must be run on a VMware View Standard or Replica Connection Server.

However, using the Windows Management Framework (which includes PowerShell 2.0 and Windows Remote Management), PowerShell cmdlets can be remotely invoked from another host. Note that in a remote PowerShell session, you would need to run add-snapin.ps1 to load the VMware View PowerCLl cmdlets.

VMware View PowerCLI Integration

VMware View PowerCLI Prerequisites

The following are the prerequisites for VMware View PowerCLI execution:

- VMware View Connection Server or VMware View Replica Server, installed and configured appropriately
- Windows PowerShell installed (minimum supported version level v1)
- Microsoft .NET Framework 2.0 SP1 or higher installed
- Optional: VMware vSphere PowerCLI

Using VMware View PowerCLI

- Launch VMware View PowerCLI using Start>All Programs>VMware>View PowerCLI. This will launch a PowerShell command prompt.
- You may get an error stating that Execution of scripts is disabled on this system. If so, execute the command Set-ExecutionPolicy Allsigned. Then close and relaunch VMware View PowerCLI. You may be prompted to accept the VMware code signing certificate
- You will now have a PowerShell console with the VMware View PowerCLI cmdlets loaded
- Get-Help can be used to get a full definition for each cmdlet
- In order to use the View cmdlets, the user must be a View Administrator with full privileges



Figure 1: Get-Help Send-SessionDisconnect executed in VMware View PowerCLI command prompt

VMware View PowerCLI cmdlets

Add-AutomaticLinkedClonePool	Update-AutomaticLinkedClonePool
Add-AutomaticPool	Update-AutomaticPool
Get-ComposerDomain	Get-ConnectionBroker
Update-ConnectionBroker	Get-DesktopPhysicalMachine
Get-DesktopVM	Send-VMReset
Get-EventReportList	Get-GlobalSetting
Update-GlobalSetting	Get-License
Set-License	Send-LinkedCloneRebalance
Send-LinkedCloneRecompose	Send-LinkedCloneRefresh
Get-LocalSession	Send-LocalSessionRollback
Add-ManualPool	Update-ManualPool
Add-ManualUnmanagedPool	Update-ManualUnmanagedPool
Get-Monitor	Get-Pool
Remove-Pool	Add-PoolEntitlement
Get-PoolEntitlement	Remove-PoolEntitlement
Get-ProfileDisk	Get-RemoteSession
Send-SessionDisconnect	Send-SessionLogoff
Get-TerminalServer	Add-TerminalServerPool
Update-TerminalServerPool	Get-User
Remove-UserOwnership	Update-UserOwnership
Add-ViewVC	Get-ViewVC
Remove-ViewVC	Update-ViewVC

vSphere PowerCLI Integration

VMware View PowerCLI cmdlets can be used along with VMware vSphere PowerCLI cmdlets. If VMware vSphere PowerCLI is installed on the VMware Connection Broker, VMware vSphere cmdlets will also be loaded when launching VMware View PowerCLI.

Examples of VMware View PowerCLI and VMware vSphere PowerCLI Integration

View PowerCLI supports piping of, and use of, the ID/Name fields from virtual machine and VMware Virtual Infrastructure Server objects as obtained from Get-VM and Connect-VIServer (or \$global:DefaultVIServer) respectively.

Passing VMs from Get-VM to VMware View PowerCLI cmdlets

Get-VM -name <VM name>| Add-ManualPool -pool_id <pool id> -vc_id (Get-ViewVC -serverName
<server>).vc_id

Registering a vCenter Server

Connect to and register a vCenter Server

Connect-VIServer <server> | Add-ViewVC -password <password>

Registering the currently connected vCenter Server

\$global:DefaultVIServer | Add-ViewVC -password <password>

Using Other VMware vSphere Objects

VMware View PowerCLI references VMware vSphere objects by their path rather than their ID. The only exceptions for this are VMs and ESX hosts which are referred by IDs.. As the path is not readily available from VMware vSphere PowerCLI, this can pose a problem in referencing templates, datastores, resource pools, and so on when using a VMware vSphere cmdlet.

A path can be determined programmatically from a VMware vSphere inventory object based on its **ParentId** or **FolderId**, and functions to construct a path in this manner can be found in this paper in the Sample Scripts section, under "Inventory Path Manipulation." Below is an example using these functions to create an Automatic Pool (note that a datastore path is constructed using the cluster path obtained from a resource pool).

Get-ViewVC -serverName vc.mydom.int | Add-AutomaticPool -pool_id autol -displayName 'ADP1' -namePrefix "adpl-{n:fixed=4}" -vmFolderPath GetPath(Get-Folder "Guests") -resource-PoolPath GetPath(Get-ResourcePool "Resources") -templatePath GetPath(Get-Template "Auto-Template") -dataStorePaths (GetDatastorePathFromResourcePool (Get-Datastore "datatorel") (Get-ResourcePool "Resources")) -customizationSpecName 'Windows 7 Variation 3' -minimum-Count 4 -maximumCount 10

Advanced Usage

Integrating VMware View PowerCLI into Your Own Scripts

You can load VMware View PowerCLI cmdlets directly for those situations where PowerShell scripts won't be run from the VMware View PowerCLI console. You can load cmdlets by dot-sourcing the add-snapin.ps1 script from the VMware Connection Server's extras directory. Add the following line at the start of a script using VMware View PowerCLI cmdlets:

. "<install directory>\Server\extras\PowerShell\add-snapin.ps1"

The VMware View Connection Server installation directory (noted above as <install directory>) will be under the path C:\Program Files\VMware View\ by default.

Similar to launching from the Start Menu shortcut, this will also load the VMware vSphere PowerCLI cmdlets if installed.

Scheduling PowerShell Scripts

You can schedule a script to run at regular intervals. You will need to run the script from a batch file, which can be scheduled as you normally would in Windows. To call a PowerShell script from a batch file, you should execute the following command:

powershell -command "& 'X:\Path\to\your\script.ps1' "

Workflow with VMware View PowerCLI and VMware vSphere PowerCLI

In an enterprise, a typical workflow with VMware View PowerCLI and VMware vSphere PowerCLI integration consists of executing the following steps

```
    Add license
```

Set-License -key <View License Key> <View License Key> will be set as the license key for VMware View

Add VMware vCenter

Add-ViewVC -serverName <vCentername> -username <username> -password <password>

The VC with <vCentername> hostname will be added as a VMware vCenter Server to VMware View

• Enable VMware View Composer

Add-ViewVC -serverName <vCentername> -username <username> -password <password> -useComposer \$true

VMware View Composer features will be enabled for the VMware vCenter Server, which will be used to create automaticLinkedClonePools.

Create Manual Pool (using piping)

```
Get-ViewVC -serverName <IP/FQDN> | Get-DesktopVM -name <vm name> |
Add-ManualPool -pool_id <pool id>
```

This creates a manually provisioned pool of managed desktops. A manual pool provides access to an existing set of machines. Any type of machine that can install View Agent is supported.

Create Automatic Pool (Full Clone)

Get-ViewVC -serverName <IP/FQDN> | Add-AutomaticPool _pool_id TestAutomaticPool -namePrefix pad -templatePath /<datacenter>/vm/<template> -vmFolderPath /<datacenter>/ vm -resourcePoolPath /<datacenter>/host/<ESX>/Resources -dataStorePath /<datacenter>/ host/<ESX>//datastore>

This creates an automatically provisioned full-clone pool. Desktop sources will be full virtual machines created from a VMware vCenter Server template.

Create Automatic Pool (Linked Clone)

Get-ViewVC -serverName <IP/FQDN> | Add-AutomaticLinkedClonePool -pool_id
TestAutomaticLinkedClonePool -namePrefix pad -parentVMPath /<datacenter>/vm/<parentVM>
-parentSnapshotPath /<Snapshot> -vmFolderPath /<datacenter>/vm -resourcePoolPath
/<datacenter>/host/<ESX>/Resources -dataStoreSpecs /<datacenter>/host/<ESX>/<datastore>
-composer_ad_id <composer ad id>

This creates an automatically provisioned linked-clone pool. VMware View Composer linked clones share the same base image and use less storage space than full virtual machines. Linked-clone pools are created from a snapshot.

Sample Scripts

These scripts are intended as internal tools, or as reference materials for scripting. The scripts can be executed using dot-source notation:

```
. ./<ScriptFile>.ps1
```

Add or Remove Datastores in Automatic Pools

```
#
# AddRemoveDatastores.ps1
# Function(s) for managing lists of datastores in automatic pools
#
####
      Add a datastore to an automatic full-clone pool
####
     Parameters:
####
          $Pool : pool_id of pool to be updated
####
          $NewDatastore : path to datastore to be added
function AddDatastoreToAutomaticPool
{ param ($Pool, $NewDatastore)
       $PoolSettings = (Get-Pool -pool id $Pool)
       $datastores = $PoolSettings.datastorePaths + ";$NewDatastore"
       Update-AutomaticPool -pool_id $Pool -datastorePaths $datastores
}
####
      Remove a datastore from an automatic full-clone pool
####
      Parameters:
####
          $Pool : pool_id of pool to be updated
####
          $DatastoreToRemove : path to datastore to be removed
function RemoveDatastoreFromAutomaticPool
{ param ($Pool, $DatastoreToRemove)
       $PoolSettings = (Get-Pool -pool_id $Pool)
       $currentdatastores = $PoolSettings.datastorePaths
       $datastores = ""
       foreach ($path in $currentdatastores.split(";"))
               {
               if(-not ($path -eq $DatastoreToRemove))
                      { $datastores = $datastores + "$path;"}
               }
       Update-AutomaticPool -pool_id $Pool -datastorePaths $datastores
}
####
       Add a datastore to a linked clone pool
####
     Parameters:
####
          $Pool : pool_id of pool to be updated
####
          $NewDatastore : path to datastore to be added
function AddDatastoreToLinkedClonePool
{ param ($Pool, $NewDatastoreSpec)
       $PoolSettings = (Get-Pool -pool id $Pool)
       $datastores = $PoolSettings.datastoreSpecs + ";$NewDatastoreSpec"
       Update-AutomaticLinkedClonePool -pool_id $Pool -datastoreSpecs $datastores
}
####
       Remove a datastore from a linked clone pool
####
       Parameters:
####
          $Pool : pool id of pool to be updated
```

```
#### $DatastoreToRemove : path to datastore to be removed
function RemoveDatastoreFromLinkedClonePool
{ param ($Pool, $DatastoreToRemove)
       $PoolSettings = (Get-Pool -pool_id $Pool)
       $currentdatastores = $PoolSettings.datastoreSpecs
       $datastores = ""
       foreach ($spec in $currentdatastores.split(";"))
               {
               $path = $spec.split("]")[1]
               $pathToRemove = $DatastoreToRemove.split("]")[1]
               if(-not $pathToRemove)
                      {
                      $pathToRemove = $DatastoreToRemove
                      }
               if(-not ($path -eq $pathToRemove))
                      {
                      $datastores = $datastores + "$spec;"
                      J
               }
       Update-AutomaticLinkedClonePool -pool_id $Pool -datastoreSpecs $datastores
```

}

Add or Remove Virtual Machines

```
# AddRemoveVMs.ps1
# Functions for adding and removing VMs in View Pools.
# WARNING: These functions manipulate the ADAM directory directly, which may cause
faults in an environment if used incorrectly.
####
      Add a VM to a pool
####
      Parameters:
####
       $VMObject:Virtual Machine object for VM to be added (obtained from Get-DesktopVM)
       $pool_id:Name of pool to which VMObject should be added
####
       Example Usage: AddVMToPool (Get-DesktopVM -Name <vmname>) <pool_id>
####
function AddVMToPool
{ param ($VMObject, $pool_id)
       if($VMObject.vm)
       {
               if($VMObject.isInPool -eq "true")
                      {
                      Write-Error ("The specified VM (" + $VMObject.Name + ") is already
                      assigned to a pool.")
                      }
               else
                       {
                      # Get the GUID for this VM's entry in ADAM, creating an entry if necessary
                      $machine_id = $VMObject.machine_id
                      if(-not $machine_id)
                              {
                              $machine_id = AddVMToADAM $VMObject
                              }
                      # Locate the server group for the pool to which this VM belongs
```

```
$poolObject = [ADSI]("LDAP://localhost:389/cn=" + $pool id + ",
ou=Applications,dc=vdi,dc=vmware,dc=int")
                      $serverGroup =
                                             [ADSI]("LDAP://localhost:389/" + $poolObject.
get("pae-Servers"))
                      # Add the distinguished name of the VM's ADAM entry to the server group
                      if($serverGroup)
                              {
                                      $machineName = $VMObject.Name
                                      $serverGroupId = $serverGroup.get("cn")
                                      Write-Output ("Adding $machineName to pool $pool_id")
                              $machineList = &
       {
                      trap [Exception]
                                                     {
                                                             continue;
                      }
                                      $serverGroup.get("pae-MemberDN")
                                      }
            if($machineList)
                              {
               if($machineList.Count -gt 1)
                                      {
               $machineListAL = New-Object System.Collections.ArrayList(,$machineList)
                                      }
                                      else
                                      {
               $machineListAL = New-Object System.Collections.ArrayList
               $null = $machineListAL.add($machineList)
               }
               }
               else
               {
            $machineListAL = New-Object System.Collections.ArrayList
            }
$null = $machineListAL.Add("CN=" + $machine_id + ",ou=Servers,dc=vdi,dc=vmware,dc=int")
                      $serverGroup.put("pae-MemberDN",$machineListAL.ToArray())
                                      $serverGroup.SetInfo()
                              }
                      }
       }
       else
       {
       Write-Error "The object passed as a parameter was not a valid VM object (a valid
object would be returned by Get-DesktopVM)."
       }
}
####
       Add multiple VMs to a pool
####
       Parameters:
####
                                     Array of Virtual Machine objects to be added
               $VMObject
                              :
(obtained from Get-DesktopVM)
####
               $pool_id
                                     Name of pool to which VMObject should be added
                              :
####
       Example Usage: AddVMsToPool (Get-DesktopVM -Name agent*) <pool_id>
```

```
function AddVMsToPool
{ param ($VMs, $pool_id)
       foreach($VM in $VMs)
       {
               AddVMToPool $VM $pool_id
       }
}
####
       Remove a VM from its pool. Will not remove ADAM entry for VM.
####
       Parameters:
####
          $VMObject : Virtual Machine object for machine to be removed (obtained from
Get-DesktopVM)
####
       Example Usage: RemoveVMFromPool (Get-DesktopVM -Name <vmname>)
function RemoveVMFromPool
{ param ($VMObject)
       $ldapBaseURL = "LDAP://localhost:389/"
       if($VMObject -and $VMObject.vm)
       {
               if($VMObject.isInPool -eq "true")
               {
                      $machineFull = [ADSI]($ldapBaseURL + "cn=" + $VMObject.machine_id
+ ",ou=Servers,dc=vdi,dc=vmware,dc=int")
                      if($machineFull)
                      {
                              $machineDN = $machineFull.get("distinguishedName")
                              $serverGroupDN = $machineFull.get("pae-MemberDNOf")
                              $serverGroup = [ADSI]("$ldapBaseURL" + $serverGroupDN)
                              if($serverGroup)
                              {
                                     $machineName = $machineFull.get("pae-DisplayName")
                                     $serverGroupId = $serverGroup.get("cn")
                                     Write-Output ("Removing $machineName from server
group $serverGroupId")
                                      $machineList = $serverGroup.get("pae-MemberDN")
                                     $machineListAL = New-Object System.Collections.
ArrayList(,$machineList)
                                     $machineListAL.Remove($machineDN)
                                     $serverGroup.put("pae-MemberDN",$machineListAL.
ToArray())
                                     $serverGroup.SetInfo()
                              }
                      }
               }
               else
               {
                      Write-Error "The specified machine is not part of a pool."
               }
       }
       else
       {
       Write-Error "The object passed as a parameter was not a valid VM object (a valid
object would be returned by Get-DesktopVM, for example)."
```

```
}
}
       Remove multiple VMs from their pools. Will not remove ADAM entries.
####
####
       Parameters:
####
          $VMObject : Array of Virtual Machine objects to be removed from pools
(obtained from Get-DesktopVM)
####
       Example Usage: RemoveVMsFromPool (Get-DesktopVM -Name agent*)
function RemoveVMsToPool
{ param ($VMs)
       foreach($VM in $VMs)
       {
              RemoveVMFromPool $VM
       }
}
```

Inventory Path Manipulation

```
#
# PathManipulation.ps1
# Author: telliott
# Function(s) for manipulation/generation of vSphere inventory paths.
#
####
       Get the full vSphere path to an Inventory object from vSphere PowerCLI
####
       Parameters:
####
               $InventoryObject Individual vSphere PowerCLI object
####
       Example Usage:
####
              GetPath(Get-VM -name myVM)
              GetPath(Get-ResourcePool | Select -first 1)
####
function GetPath($InventoryObject)
{
       if($InventoryObject -and $InventoryObject.Id)
       {
               $path = ""
               # Recursively move up through the inventory hierarchy, by parent or folder
               if($InventoryObject.ParentId)
               {
                      $path = GetPath (Get-Inventory -Id $InventoryObject.ParentId)
               }
               elseif ($InventoryObject.FolderId)
               {
                      $path = GetPath (Get-Folder -Id $InventoryObject.FolderId)
               }
               # Skip the "Datacenters" folder at the root
               if(-not $InventoryObject.isChildTypeDatacenter)
               {
                      # Add this object to the path
                      $path = $path + "/" + $InventoryObject.Name
               }
               $path
```

```
}
}
       Construct a View-friendly path to a datastore on a specific cluster (defined by a
####
Resource Pool)
####
       Parameters:
####
              $Datastore Datastore object
####
               $ResourcePool Resource Pool in desired cluster
####
      Example Usage:
####
               GetDatastorePathFromResourcePool (Get-Datastore "datastore1") (Get-
ResourcePool "Resources")
function GetDatastorePathFromResourcePool($Datastore,$ResourcePool)
{
       $ClusterPath = GetPath(Get-Inventory -Id $ResourcePool.ParentId)
       $path = $ClusterPath + "/" + $Datastore.Name
       $path
}
```

Poll Pool Usage

```
# PollPoolUsage.ps1
# Author: telliott
# Functions for polling current usage of pools, resizing them if they are at capacity.
#
####
       Check usage for all pools, warning or resizing if necessary
####
       Parameters:
####
       Sincrement : size by which to increase at-capacity automatic pool (defaults to 5)
function PollAllPoolsUsage
{ param ($increment)
       if(-not $increment)
       {
               increment = 5
       }
       # Retrieve all pool objects and check each one individually
       $pools = Get-Pool
       foreach ($pool in $pools)
       {
               PollPoolUsage $pool $increment
       }
}
####
       Check current usage of a pool
####
       Output a warning if all desktops for this pool are in use
####
       Increase the maximum size for such pools if possible
####
####
       Parameters:
####
       $Pool : Pool object representing the pool to be checked
####
       $increment : size by which to increase at-capacity automatic pools
```

```
function PollPoolUsage
{ param ($Pool, $increment)
       ## Get list of remote & local sessions for specified pool (will not output errors)
        $remotes = Get-RemoteSession -pool_id $Pool.pool_id -ErrorAction SilentlyContinue
        $locals = Get-LocalSession -pool_id $Pool.pool_id -ErrorAction SilentlyContinue
        ## Count number of remote and local sessions in list
        fremotecount = 0
        localcount = 0
       if($remotes)
        {
               $remotecount = ([Object[]]($remotes)).Count
        }
        if($locals)
        {
               $localcount = ([Object[]]($locals)).Count
        }
        $totalcount = $localcount + $remotecount
        # Determine total or maximum number of desktops for this pool
        maxdesktops = 0
        if($Pool.deliveryModel -eq "Provisioned")
        {
               $maxdesktops = $Pool.maximumCount
        }
        else
        {
               $maxdesktops = $Pool.machineDNs.split(";").Count
        }
        Write-Output ("==== " + $Pool.pool_id + " ====")
        Write-Output ("Remote session count: " + $remotecount)
        Write-Output ("Local session count: " + $localcount)
        Write-Output ("Total session count: " + $totalcount)
       Write-Output ("Maximum desktops: " + $maxdesktops)
       ## If a pool is using all its desktops, increase the maximum size or output a
warning
        ## Linked Clone and Automatic Pools can be re-sized.
        ## Automatic Pools have desktopSource == "VC" && deliveryModel == "Provisioned"
        ## Linked Clone Pools have desktopSource == "SVI" && deliveryModel ==
"Provisioned"
       if($maxdesktops -eq $totalcount)
        {
               if($Pool.deliveryModel -eq "Provisioned")
               {
                      $newmaximum = [int]$Pool.maximumCount + [int]$increment
                      if($Pool.desktopSource -eq "VC")
                       {
                              Update-AutomaticPool -pool_id $Pool.pool_id -maximumCount
$newmaximum
                      }
                      elseif ($Pool.desktopSource -eq "SVI")
                       {
```

Basic Troubleshooting

"View Server Connect FAILED" error when running a VMware View cmdlet

This error means that the VMware View PowerCLI cmdlets are unable to connect to the VMware View Connection Server. Check that the VMware View Connection Server service is running in the Windows Services console.

"NoQueueManager" error when running a VMware View cmdlet

The VMware View Connection Server service may still be starting up. Wait a few minutes and then try again. Should the problem persist, try restarting the VMware View Connection Server Windows service.

Known Issues

Disk Specification Settings Reset on Linked Clone Pool Update

When updating a linked clone pool, the settings for useTempDisk and useUserDataDisk will always default back to \$true. For pools where these settings should be \$false, you can work around this by disabling provision in the initial update, and then modifying ADAM directly to reset the disk specifications to their original settings, as in the following script:

```
# Where $pool_id is the id of the pool to be updated
```

```
# Get the pool information
$poolObject = [ADSI]("LDAP://localhost:389/cn=" + $pool_id + ",ou=Applications,dc=vdi,dc
=vmware,dc=int")
$serverGroup =[ADSI]("LDAP://localhost:389/" + $poolObject.get("pae-Servers"))
# If the pool is valid, get the Pool Disposable Disk setting, Update the pool with
spares, write back the Disk setting
 if($serverGroup)
{
        $serverGroupId = $serverGroup.get("cn")
        $diskSpecs = $serverGroup.getex("pae-SVIVmPersistentDiskSpec")
        If (!$?)
        {
        # No disk specs for this pool
        delete = 1
        }
        else
        { $diskSetting = $serverGroup.getex("pae-SVIVmPersistentDiskSpec") }
        # Perform the intended update, disabling provisioning
        Update-automaticlinkedclonepool -pool_Id $pool_id -isProvisioningEnabled $false
. . .
```

```
{
    $serverGroup.putex(1, "pae-SVIVmPersistentDiskSpec",$null)
}
else
{ $serverGroup.put("pae-SVIVmPersistentDiskSpec",$diskSetting)}
$serverGroup.put("pae-VmProvEnabled",1)
$serverGroup.SetInfo()
```

Note that this script is provided as an example only.

Get-DesktopVM Sometimes Returns Incorrect Pool Information in Environments with Multiple vCenter Servers

In VMware View environments with multiple VMware vCenter Servers, there may be multiple virtual machines with the same MOID in different pools. Get-DesktopVM may return incorrect details for such virtual machines, affecting the following attributes:

- machine_id
- user_sid

}

- user_displayname
- isInPool
- pool_id
- isLinkedClone
- composerTaks
- localState

Piping to Add-ManualPool from Get-VM May Result in an Unexpected Error in Environments with Multiple VMware vCenter Servers

In VMware View environments with multiple VMware vCenter Servers, the same MOID may be assigned to virtual machines residing in different pools. Piping virtual machine objects to Add-ManualPool from the VMware vSphere PowerCLI cmdlet Get-VM may incorrectly result in an error stating that a virtual machine is already part of a pool.

In cases where this occurs, the suspect virtual machine(s) can be re-created to generate a new MOID.

Piping to Send-OfflineSessionRollback or Send-VMReset from Get-VM May Result in the Wrong Virtual Machine Being Rolled Back or Reset

In VMware View environments with multiple vCenter Servers, the same MOID may be assigned to virtual machines residing in different pools. Piping VM objects to Add-ManualPool from the VMware vSphere PowerCLI cmdlet Get-VM may result in resetting a different VM than the one expected.

About the Authors

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