v Sphere-xvMotion-Bulk-Scheduler PowerShell Module

In this guide I am using a Windows Server 2019 machine as my Jumpbox.

The user is a Local Administrator and the machine has direct Internet Access (i.e. no proxy).

Prerequisites

PowerCLI

1. Open PowerShell ISE.
2. Install PowerCLI from the PowerShell Gallery.

```
Install-Module -Name VMware.PowerCLI -Scope CurrentUser -Verbose
```

If prompted to update the NuGet package and/or to trust the PowerShell Gallery; answer Yes/'Yes To All'.

Output

```
VERBOSE: Downloading module 'VMware.PowerCLI' with version '13.1.0.21624340' from the repository 'https://www.powershellgallery.com/api/v2'.
VERBOSE: Searching repository 'https://www.powershellgallery.com/api/v2/FindPackagesById()?id='VMware.PowerCLI'' for ''.

…

VERBOSE: The catalog signature in 'VMware.PowerCLI.cat' of the module 'VMware.PowerCLI' is valid and matches with the hash generated from the module contents.
VERBOSE: Module 'VMware.PowerCLI' was installed successfully to path 'C:\Users\MartinCo\Documents\WindowsPowerShell\Modules\VMware.PowerCLI\13.1.0.21624340'.
```

It will take several minutes to download and install PowerCLI.

3. Configure PowerCLI *DefaultVIServerMode*, *InvalidCertificateAction* and *ParticipateInCeip*

```
$params = @{
    DefaultVIServerMode = 'Multiple'
    InvalidCertificateAction = 'Ignore'
    ParticipateInCeip = $false
    Confirm = $false
}

Set-PowerCLIConfiguration @params
```

Output

```
Scope    ProxyPolicy     DefaultVIServerMode InvalidCertificateAction  DisplayDeprecationWarnings WebOperationTimeout
                                                                                                   Seconds
-----    -----------     ------------------- ------------------------  -------------------------- -------------------
Session  UseSystemProxy  Multiple            Ignore                    True                       300
User                     Multiple            Ignore
AllUsers
```

4. Test making a connection to a vCenter Server. Provide credentials when prompted.

```
Connect-VIServer -Server 'mc-vcsa-v-201.momusconsulting.com'
```

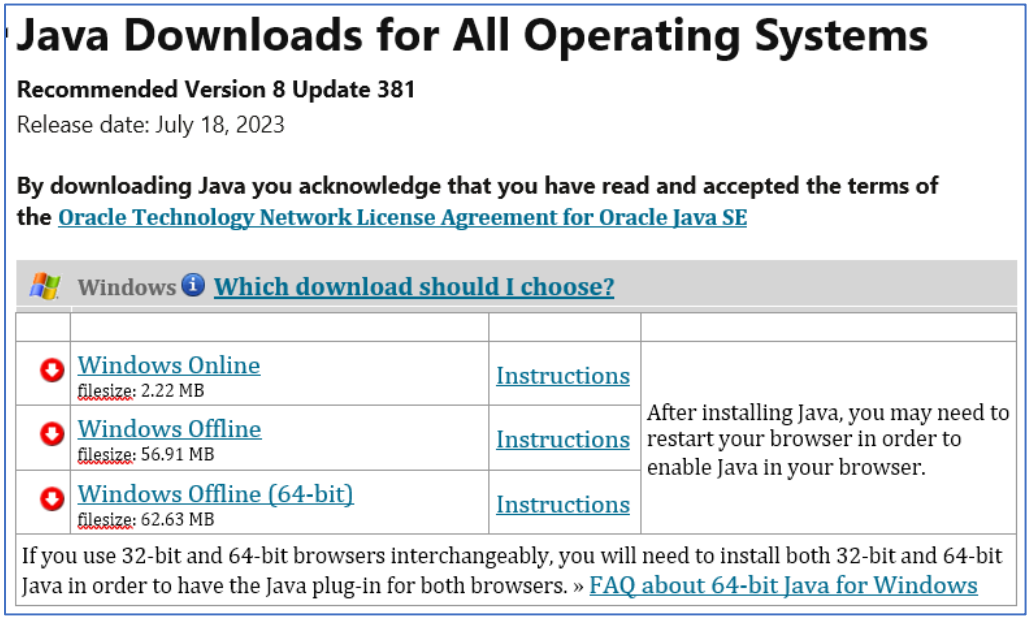
Output

```
Name                           Port  User
----                           ----  ----
mc-vcsa-v-201.momusconsulti... 443   VSPHERE.LOCAL\Administrator
```

5. PowerCLI is installed and you have tested a connection to a vCenter Server.
6. Done.

Java Runtime Environment

1. Browse to https://www.java.com/en/download/manual.jsp and download the x64 version.



Java Downloads for All Operating Systems

Recommended Version 8 Update 381

Release date: July 18, 2023

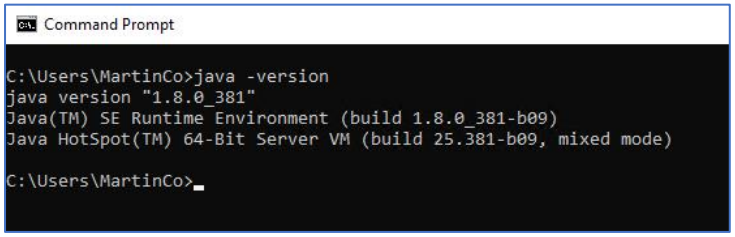
By downloading Java you acknowledge that you have read and accepted the terms of the Oracle Technology Network License Agreement for Oracle Java SE

Windows **Which download should I choose?**

	Windows Online filesize: 2.22 MB	Instructions	After installing Java, you may need to restart your browser in order to enable Java in your browser.
	Windows Offline filesize: 56.91 MB	Instructions	
	Windows Offline (64-bit) filesize: 62.63 MB	Instructions	

If you use 32-bit and 64-bit browsers interchangeably, you will need to install both 32-bit and 64-bit Java in order to have the Java plug-in for both browsers. » FAQ about 64-bit Java for Windows

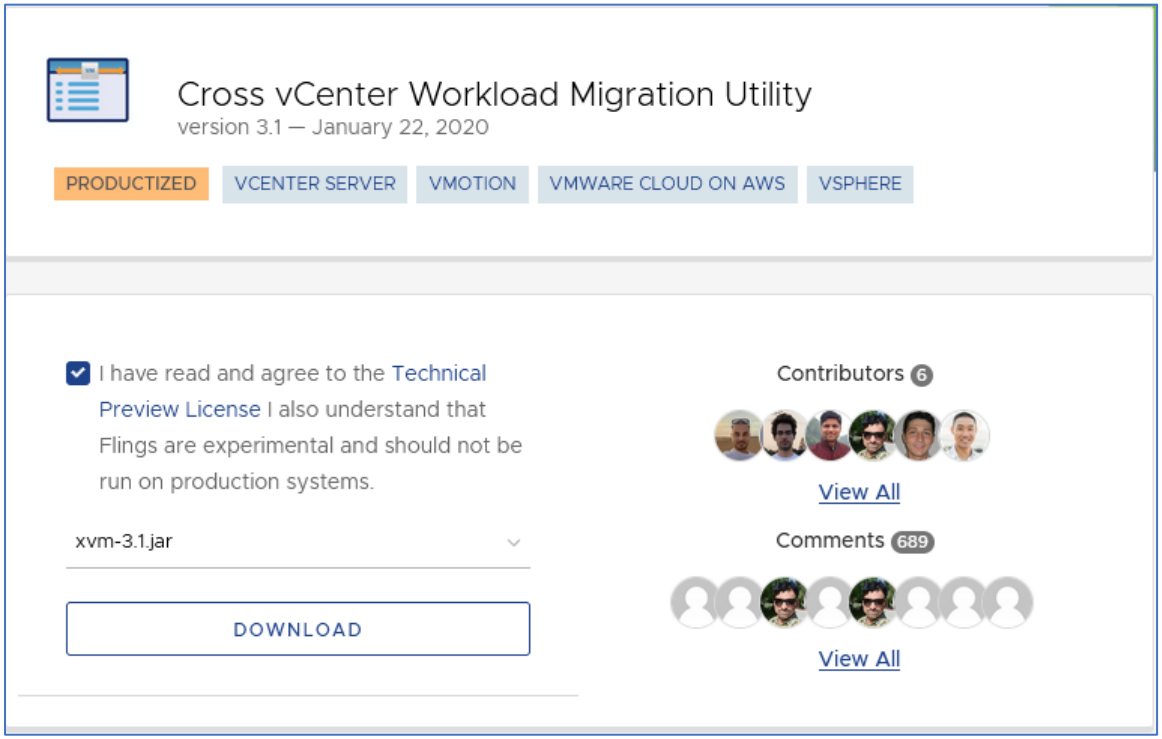
2. Run the installer. The default install location is `C:\Program Files\Java\jre-1.8\`
3. Open a Command Prompt and confirm the Java version.



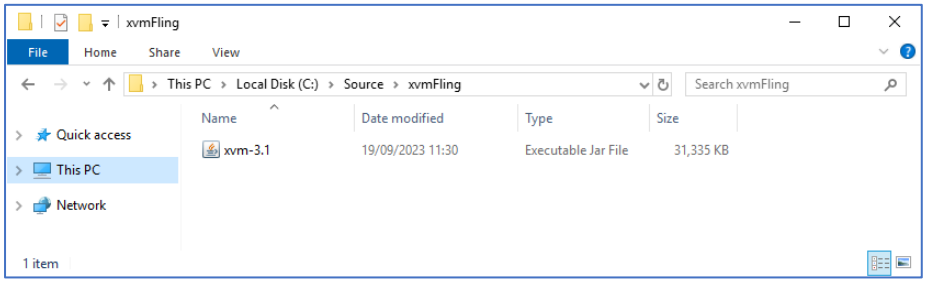
4. Done.

xvm Fling

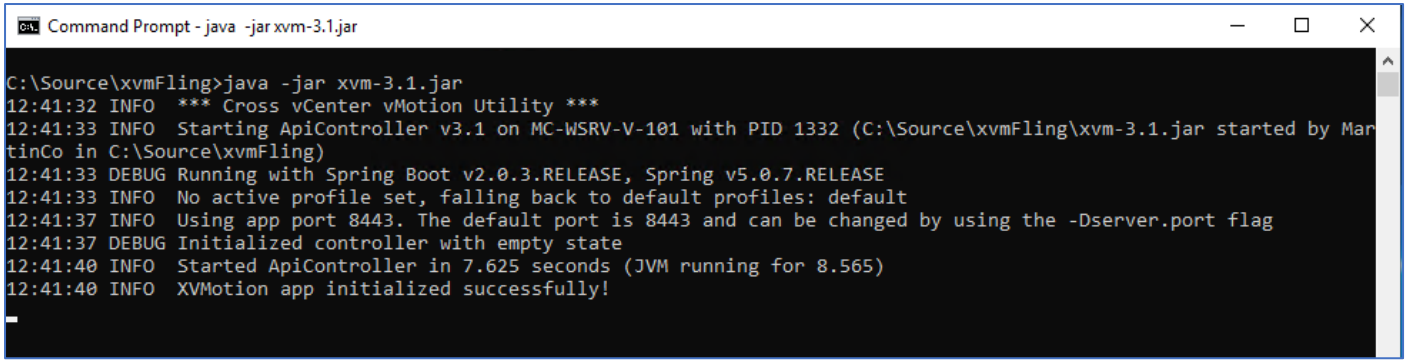
1. Browse to https://flings.vmware.com/cross-vcenter-workload-migration-utility and download the `xvm-3.1.jar` file.



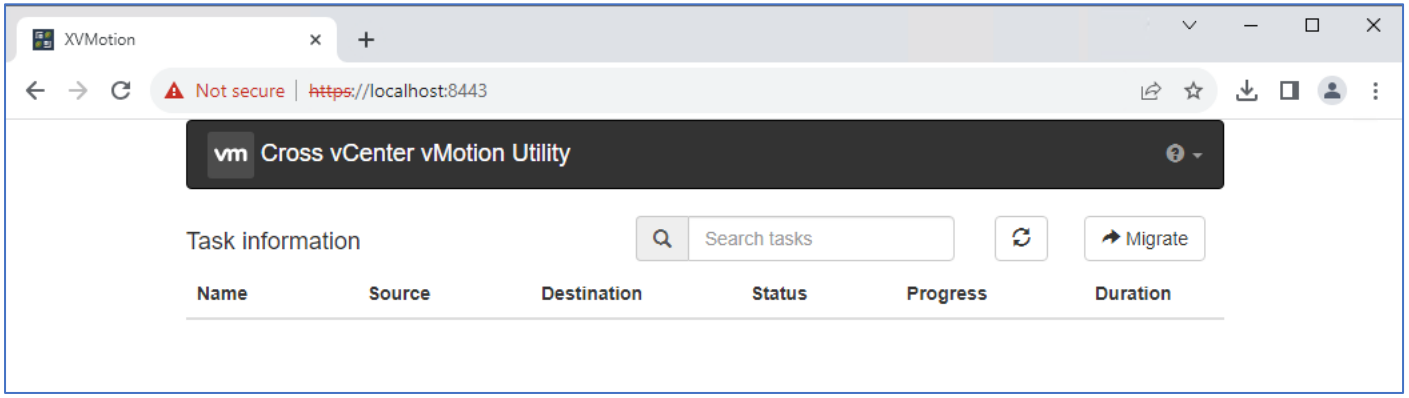
2. Validate the SHA256 checksum matches the hash given on the Fling web page.
3. Unblock the file and move it into a new folder. (`C:\Source\xvmFling`)



4. Open a Command Prompt and confirm the xvm Java application starts without any errors.



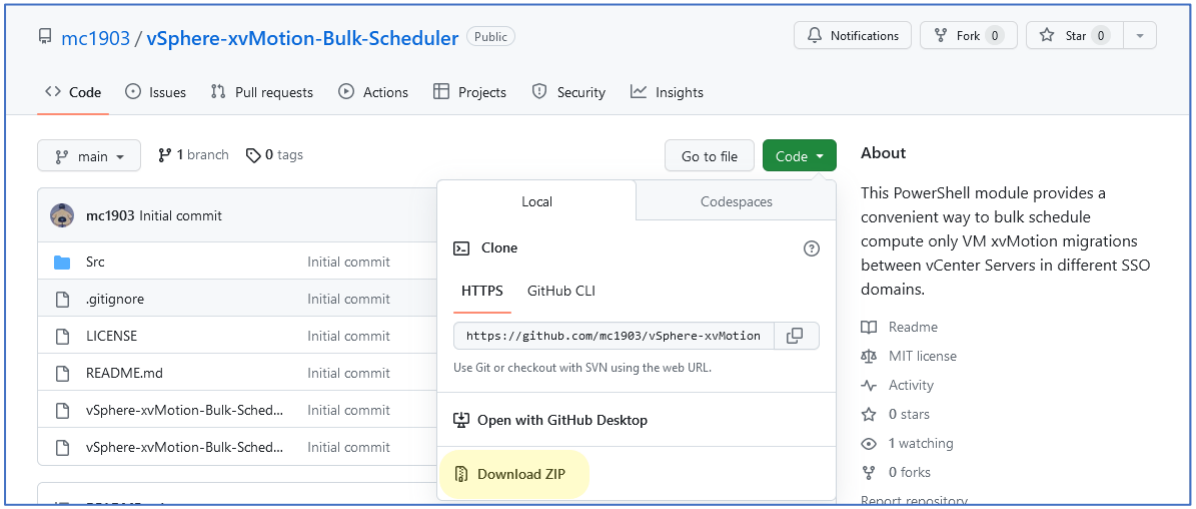
5. Open a Browser to https://localhost:8443/, accept the security warning and confirm you can access the xvm Web UI.



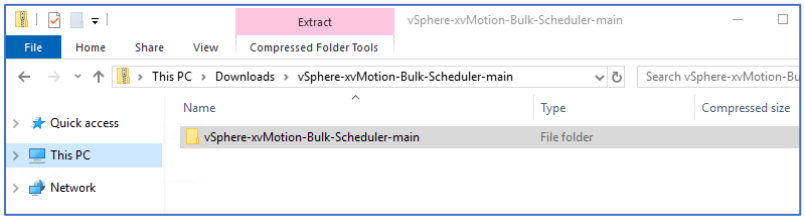
6. Close the Browser and a Command Prompt.
7. Done.

vSphere-xvMotion-Bulk-Scheduler Module

1. Browse to https://github.com/mc1903/vSphere-xvMotion-Bulk-Scheduler. Select the green <> Code button and the select to download the zip file.

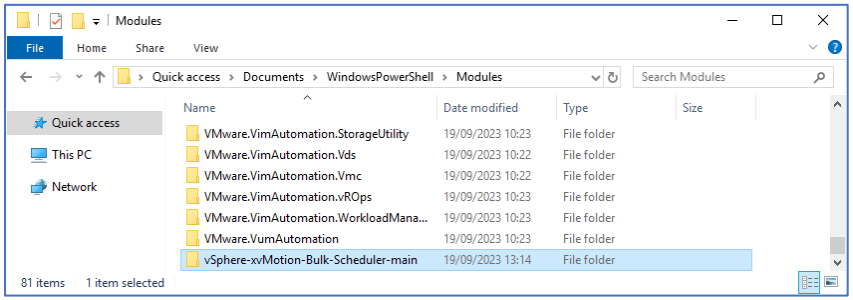


2. Unblock the file and then open it.



3. In a new Window, open the PowerShell Modules directory that is under your user profile (`C:\Users\MartinCo\Documents\WindowsPowerShell\Modules\`)

4. Copy the `vSphere-xvMotion-Bulk-Scheduler-main` folder from the zip file into the `C:\Users\MartinCo\Documents\WindowsPowerShell\Modules\` folder.



5. Rename the `vSphere-xvMotion-Bulk-Scheduler-main` folder the `vSphere-xvMotion-Bulk-Scheduler`
6. Open PowerShell ISE and import the module.

```
Import-Module -Name "vSphere-xvMotion-Bulk-Scheduler" -Verbose
```

Output

```
VERBOSE: Loading module from path 'C:\Users\MartinCo\Documents\WindowsPowerShell\Modules\vSphere-xvMotion-Bulk-Scheduler\vSphere-xvMotion-Bulk-
Scheduler.psd1'.
VERBOSE: Loading module from path 'C:\Users\MartinCo\Documents\WindowsPowerShell\Modules\vSphere-xvMotion-Bulk-Scheduler\vSphere-xvMotion-Bulk-
Scheduler.psm1'.
VERBOSE: Exporting function 'Clear-xvmTasks'.
…

VERBOSE: Importing function 'Set-Securepassword'.
VERBOSE: Importing function 'Start-xvmTask'.
```

7. Done.

First Use

Starting the xvmFling and connecting xvm to the vCenter Servers

1. Open PowerShell ISE and start the xvm Fling with `Invoke-xvmFling` function.

```
Import-Module -Name "vSphere-xvMotion-Bulk-Scheduler"

$ xvmFlingParams = @{
    jreFile = "C:\Program Files\Java\jre-1.8\bin\java.exe"
    jarFile = "C:\Source\xvmFling\xvm-3.1.jar"
    OpenBrowser = $true
}

Invoke-xvmFling @xvmFlingParams
```

Output

```
INFO:    [ 19-09-2023 13:37:09:345 ] - Function: Invoke-xvmFling
INFO:    [ 19-09-2023 13:37:09:345 ] - Logging to C:\Source\xvmFling\Logs\xvmLog_19-09-2023_13-37-09.log
INFO:    [ 19-09-2023 13:37:09:345 ] - Getting Short File Paths
INFO:    [ 19-09-2023 13:37:09:361 ] - Terminating old xvm Java Process
INFO:    [ 19-09-2023 13:37:09:424 ] - Terminating old xvm Status Monitor Process
INFO:    [ 19-09-2023 13:37:09:439 ] - Deleting old xvm state files
INFO:    [ 19-09-2023 13:37:12:455 ] - Started new xvm Java Process with PID 5676
INFO:    [ 19-09-2023 13:37:12:470 ] - Sleeping for 10 seconds to allow xvm to fully initialise
INFO:    [ 19-09-2023 13:37:22:481 ] - Testing that port TCP/8443 is up
INFO:    [ 19-09-2023 13:37:27:934 ] - Successfully connected to port 8443
INFO:    [ 19-09-2023 13:37:27:981 ] - Started new xvm Status Monitor Process with PID 2544
```

2. Optional. Create saved passwords for each vCenter Server's session authentication using the `Set-SecurePassword` function. Repeat this for each Source & Target vCenter Server. Passwords are stored in an obfuscated way within the current users registry (HKCU:)

```
$setsecpwdParams = @{
    Hostname = "mc-vcsa-v-201.momusconsulting.com"
    Username = "administrator@vsphere.local"
}
Set-SecurePassword @setsecpwdParams
```

Output

```
SaltHash : E35689E755EBF94A9179DCDCC184FDCA0B5181BB96CD78F069B205A34358A293
Success  : True
```

3. Register & connect a vCenter Server within the xvm Fling. Repeat this for each Source & Target vCenter Server

```
$connect1Params = @{
    siteName = "mc-vcsa-v-201"
    vCenterFQDN = "mc-vcsa-v-201.momusconsulting.com"
    vCenterUsername = "administrator@vsphere.local"
    useSavedPassword = $true
    skipCertificateCheck = $true
    jsonOut = $true
}
Connect-xvmSite @connect1Params
```

Output

```
INFO:    [ 19-09-2023 13:51:29:007 ] - Function: Connect-xvmSite
INFO:    [ 19-09-2023 13:51:29:007 ] - Attempting to retrieve the secure saved password for user administrator@vsphere.local on vCenter Server mc-vcsa-v-
201.momusconsulting.com
INFO:    [ 19-09-2023 13:51:29:788 ] - A saved password was found
INFO:    [ 19-09-2023 13:51:30:152 ] - Attempting to connect xvm to vCenter Server mc-vcsa-v-201.momusconsulting.com

INFO:    [ 19-09-2023 13:51:39:782 ] - Successfully connected xvm to vCenter Server mc-vcsa-v-201.momusconsulting.com
{
    "sitename":  "mc-vcsa-v-201",
    "hostname":  "mc-vcsa-v-201.momusconsulting.com",
    "username":  "administrator@vsphere.local",
    "password":  null,
    "insecure":  true,
    "connected":  true
}

PS C:\Source\xvmFling>
```

4. Done.

Preparing the Migration Task and Network Mapping CSV Files.

Migration Task File

In Excel or similar application, create a workbook with the following headings in row #1, add each VM to be migrated on a separate row from row #2 onwards and save as a .csv file:

sourceSite	vmName	targetSite	targetCluster	targetPool	targetFolder	migrationDate	migrationTime
mc-vcsa-v-201	TestVM01-Win	vcf-m01-vc01	vcf-m01-cl01	Migration RP_vcf-m01-cl01	Windows	21/09/2023	15:55:00
mc-vcsa-v-201	TestVM07-Lin	vcf-m01-vc01	vcf-wld01-cl02	Migration RP_vcf-wld01-cl02	Linux	21/09/2023	16:35:00

sourceSite should match the siteName that Connect-xvmSite used to register the source vCenter Server with xvm

vmName is the vCenter inventory name of the VM in the source vCenter Server that will be migrated

targetSite should match the siteName that Connect-xvmSite used to register the target vCenter Server with xvm

targetCluster is the target Cluster within the target vCenter Server.

targetPool is the target Resource Pool within the target vCenter Server. *Optional**. If left blank, the default 'Resources' pool will be used.

targetFolder is the target VM Folder within the target vCenter Server. *Optional**. If left blank, the default 'Discovered virtual machine' folder will be used.

migrationDate is the day that the VM migration should be executed. Specified in UK 'dd/MM/yyyy' format.

migrationTime is the time of day that the VM migration should be executed. Specified in 24 Hour 'HH:mm:ss' format.

Optional.* If your target vCenter Server has multiple Datacenters and/or multiple Clusters, you **must specify a unique target Resource Pool name for each Cluster and/or a unique target VM Folder name for each Datacenter. This is due to a limitation in the way the xvm Fling handles duplicate RP & VM Folder names (badly!).

Network Mapping File

Again, in Excel or similar application, create a workbook with the following headings in row #1, add each Port Group mapping on a separate row from row #2 onwards and save as a .csv file:

SourcePG	TargetPG
VLAN0001_LegacyRW	vcf-dc01-vds01-pg-vlan0001
VLAN0001_LegacyRW	vcf-dc02-vds01-pg-vlan0001
VLAN0002_LegacyMgmt	vcf-dc01-vds01-pg-vlan0002
VLAN0002_LegacyMgmt	vcf-dc02-vds01-pg-vlan0002
VLAN0101_Management	vcf-dc01-vds01-pg-mgmt
VLAN0101_Management	vcf-dc02-vds01-pg-mgmt

SourcePG should match the inventory name of the Distributed Port Groups in the source vCenter Server

TargetPG should match the inventory name of the Distributed Port Groups in the target vCenter Server

You can add all of the mappings for all source/target vCenter Servers in the one file, but if there are 1000's it may slow down the enumeration/mapping that the dry-run and scheduling functions perform.

Dry Run

1. Open PowerShell ISE and start the Dry Run with `Invoke-xvmDryRun` function.

```
$dryrun = @{
    migrationTasksCSV = "C:\Users\MartinCo\Documents\xvmFling\xvm Migration Tasks.csv"
    networkMappingsCSV = "C:\Users\MartinCo\Documents\xvmFling\xvm Network Mapping.csv"
    useSavedPassword = $true
}

Invoke-xvmDryRun @dryrun
```

Output

```
INFO:    [ 20-09-2023 14:16:27:006 ] - Function: Invoke-xvmDryRun
INFO:    [ 20-09-2023 14:16:27:022 ] - Migration Tasks CSV file was found at 'C:\Users\MartinCo\Documents\xvmFling\xvm Migration Tasks.csv'
INFO:    [ 20-09-2023 14:16:27:022 ] - Network Mapping CSV file was found at 'C:\Users\MartinCo\Documents\xvmFling\xvm Network Mapping.csv'
INFO:    [ 20-09-2023 14:16:27:038 ] - Checking the source vCenter Server(s) are registered & connected to xvm
INFO:    [ 20-09-2023 14:16:27:038 ] - The source vCenter Server 'mc-vcsa-v-201' is connected to xvm
INFO:    [ 20-09-2023 14:16:27:053 ] - Checking the target vCenter Server(s) are registered & connected to xvm
INFO:    [ 20-09-2023 14:16:27:069 ] - The target vCenter Server 'vcf-m01-vc01' is connected to xvm
INFO:    [ 20-09-2023 14:16:27:069 ] - Establishing a PowerCLI session with the source vCenter Server 'mc-vcsa-v-201'
INFO:    [ 20-09-2023 14:16:27:710 ] - A saved password was found
INFO:    [ 20-09-2023 14:16:32:256 ] - Establishing a PowerCLI session with the target vCenter Server 'vcf-m01-vc01'
INFO:    [ 20-09-2023 14:16:32:428 ] - A saved password was found
INFO:    [ 20-09-2023 14:16:33:960 ] -
INFO:    [ 20-09-2023 14:16:33:960 ] - Starting Dry Run for VM 'TestVM01-Win'
INFO:    [ 20-09-2023 14:16:34:788 ] -       Power State: PoweredOn
INFO:    [ 20-09-2023 14:16:34:788 ] -       vCPUs: 2
INFO:    [ 20-09-2023 14:16:34:819 ] -       Memory GB: 6
INFO:    [ 20-09-2023 14:16:34:819 ] -       NICs: 2
INFO:    [ 20-09-2023 14:16:34:834 ] -       HDDs: 3
INFO:    [ 20-09-2023 14:16:34:834 ] -       RDMs: 0
INFO:    [ 20-09-2023 14:16:34:944 ] -       Hard disk 1 - VMDK (Thin) - 40 (GB) - [UnityDS1] TestVM01-Win/TestVM01-Win.vmdk
INFO:    [ 20-09-2023 14:16:34:944 ] -       Hard disk 2 - VMDK (Eager Thick) - 55 (GB) - [UnityDS1] TestVM01-Win/TestVM01-Win_1.vmdk
INFO:    [ 20-09-2023 14:16:34:960 ] -       Hard disk 3 - VMDK (Thin) - 40 (GB) - [UnityDS2] TestVM01-Win/TestVM01-Win.vmdk
INFO:    [ 20-09-2023 14:16:34:975 ] -       CD/DVD drive 1 - Connected - [ISOImagesShared] gparted-live-0.26.0-2-i686.iso
INFO:    [ 20-09-2023 14:16:35:022 ] -       The requested migration date/time is '09/21/2023 15:55:00'
INFO:    [ 20-09-2023 14:16:35:647 ] -       The target Cluster 'vcf-m01-cl01' was found in Datacenter 'vcf-dc01' on the target vCenter Server
INFO:    [ 20-09-2023 14:16:35:663 ] -       Checking the required Datastores are available in the target cluster
INFO:    [ 20-09-2023 14:16:36:460 ] -       The source cluster Datastore 'ISOImagesShared' is available in the target cluster
INFO:    [ 20-09-2023 14:16:36:460 ] -       The source cluster Datastore 'UnityDS1' is available in the target cluster
INFO:    [ 20-09-2023 14:16:36:475 ] -       The source cluster Datastore 'UnityDS2' is available in the target cluster
INFO:    [ 20-09-2023 14:16:43:350 ] -       The source Resource Pool is '/Momus DC Site-A/Cluster 1/Resources/Migration RP_Cluster1'
INFO:    [ 20-09-2023 14:16:43:444 ] -       The target Resource Pool 'Migration RP_vcf-m01-cl01' was found in the target Cluster 'vcf-m01-cl01'
INFO:    [ 20-09-2023 14:16:43:522 ] -       The target VM Folder 'Windows' was found in the target Datacenter 'vcf-dc01'
INFO:    [ 20-09-2023 14:16:43:584 ] -       Matched all SourcePG(s) to TargetPG(s)
INFO:    [ 20-09-2023 14:16:43:584 ] - Successfully completed the Dry Run for VM 'TestVM01-Win'

INFO:    [ 20-09-2023 14:16:43:584 ] - Starting Dry Run for VM 'TestVM07-Lin'
INFO:    [ 20-09-2023 14:16:43:725 ] -       Power State: PoweredOn
INFO:    [ 20-09-2023 14:16:43:725 ] -       vCPUs: 1
```

```
INFO:    [ 20-09-2023 14:16:43:741 ] -       Memory GB: 6
INFO:    [ 20-09-2023 14:16:43:741 ] -       NICs: 2
INFO:    [ 20-09-2023 14:16:43:756 ] -       HDDs: 1
INFO:    [ 20-09-2023 14:16:43:756 ] -       RDMs: 0
INFO:    [ 20-09-2023 14:16:43:788 ] -       Hard disk 1 - VMDK (Thin) - 16 (GB) - [UnityDS5] TestVM07-Lin/TestVM07-Lin.vmdk
INFO:    [ 20-09-2023 14:16:43:788 ] -       CD/DVD drive 1 - Disconnected - No .iso file is mapped
INFO:    [ 20-09-2023 14:16:43:803 ] -       The requested migration date/time is '09/21/2023 16:35:00'
INFO:    [ 20-09-2023 14:16:44:069 ] -       The target Cluster 'vcf-wld01-cl02' was found in Datacenter 'vcf-dc01' on the target vCenter Server
INFO:    [ 20-09-2023 14:16:44:069 ] -       Checking the required Datastores are available in the target cluster
INFO:    [ 20-09-2023 14:16:44:522 ] -       The source cluster Datastore 'UnityDS5' is available in the target cluster
INFO:    [ 20-09-2023 14:16:44:913 ] -       The source Resource Pool is '/Momus DC Site-A/Cluster 2/Resources/Migration RP_Cluster2'
INFO:    [ 20-09-2023 14:16:44:975 ] -       The target Resource Pool 'Migration RP_vcf-wld01-cl02' was found in the target Cluster 'vcf-wld01-cl02'
INFO:    [ 20-09-2023 14:16:45:084 ] -       The target VM Folder 'Linux' was found in the target Datacenter 'vcf-dc01'
INFO:    [ 20-09-2023 14:16:45:084 ] -       Matched all SourcePG(s) to TargetPG(s)
INFO:    [ 20-09-2023 14:16:45:100 ] - Successfully completed the Dry Run for VM 'TestVM07-Lin'
```

2. Review the output (or the logs) for an warnings (these will be shown in orange).
3. Done.

Schedule Migrations

1. Create a directory for the TaskJsonFiles to be saved into (`C:\Users\MartinCo\Documents\xvmFling\TaskJsonFiles\`)
2. Open PowerShell ISE and start the Dry Run with `Invoke-xvmDryRun` function.

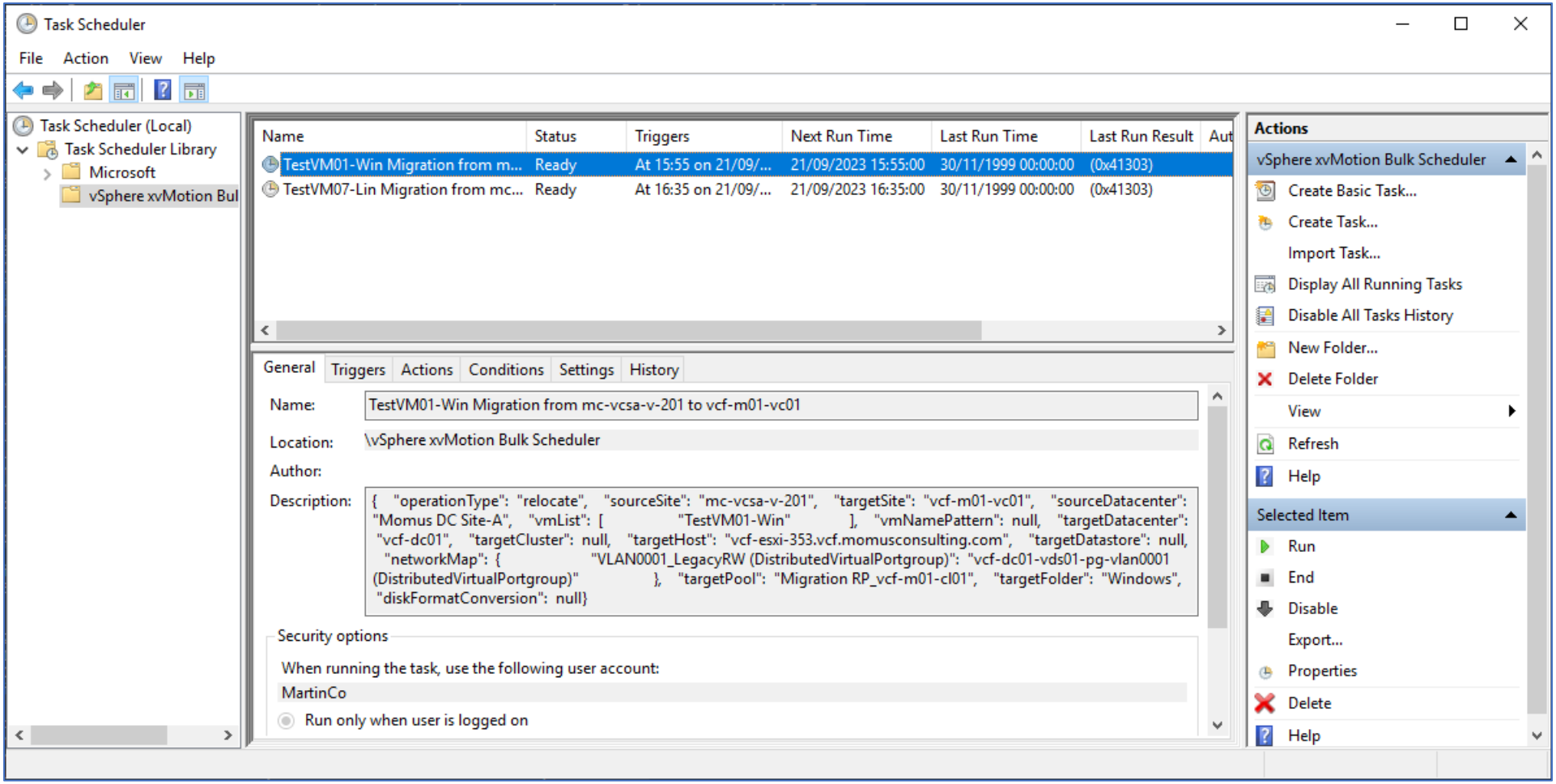
```
$scheduler = @{
    migrationTasksCSV = "C:\Users\MartinCo\Documents\xvmFling\xvm Migration Tasks.csv"
    networkMappingsCSV = "C:\Users\MartinCo\Documents\xvmFling\xvm Network Mapping.csv"
    taskJsonFilesOutPath = "C:\Users\MartinCo\Documents\xvmFling\TaskJsonFiles\"
    useSavedPassword = $true
}

Invoke-xvmScheduler @scheduler
```

Output

```
INFO:    [ 20-09-2023 14:35:12:302 ] - Function: Invoke-xvmScheduler
INFO:    [ 20-09-2023 14:35:12:318 ] - Migration Tasks CSV file was found at C:\Users\MartinCo\Documents\xvmFling\xvm Migration Tasks.csv
INFO:    [ 20-09-2023 14:35:12:333 ] - Network Mapping CSV file was found at C:\Users\MartinCo\Documents\xvmFling\xvm Network Mapping.csv
INFO:    [ 20-09-2023 14:35:12:365 ] - Checking Source vCenter Server(s) are registered & connected to xvm
INFO:    [ 20-09-2023 14:35:12:365 ] - Source Site mc-vcsa-v-201 is connected to xvm
INFO:    [ 20-09-2023 14:35:12:365 ] - Checking Target vCenter Server(s) are registered & connected to xvm
INFO:    [ 20-09-2023 14:35:12:380 ] - Target Site vcf-m01-vc01 is connected to xvm
INFO:    [ 20-09-2023 14:35:12:396 ] - Establishing PowerCLI session with Source vCenter Server mc-vcsa-v-201
INFO:    [ 20-09-2023 14:35:13:693 ] - A saved password was found
INFO:    [ 20-09-2023 14:35:15:240 ] - Establishing PowerCLI session with Target vCenter Server vcf-m01-vc01
INFO:    [ 20-09-2023 14:35:15:412 ] - A saved password was found
INFO:    [ 20-09-2023 14:35:16:943 ] -
INFO:    [ 20-09-2023 14:35:16:943 ] - Scheduling migration for virtual machine TestVM01-Win
INFO:    [ 20-09-2023 14:35:17:083 ] -       Power State: PoweredOn
INFO:    [ 20-09-2023 14:35:17:099 ] -       vCPUs: 2
INFO:    [ 20-09-2023 14:35:17:099 ] -       Memory GB: 6
INFO:    [ 20-09-2023 14:35:17:115 ] -       NICs: 2
INFO:    [ 20-09-2023 14:35:17:130 ] -       HDDs: 3
INFO:    [ 20-09-2023 14:35:17:146 ] -       RDMs: 0
INFO:    [ 20-09-2023 14:35:17:162 ] -       Hard disk 1 - VMDK (Thin) - 40 (GB) - [UnityDS1] TestVM01-Win/TestVM01-Win.vmdk
INFO:    [ 20-09-2023 14:35:17:162 ] -       Hard disk 2 - VMDK (Eager Thick) - 55 (GB) - [UnityDS1] TestVM01-Win/TestVM01-Win_1.vmdk
INFO:    [ 20-09-2023 14:35:17:177 ] -       Hard disk 3 - VMDK (Thin) - 40 (GB) - [UnityDS2] TestVM01-Win/TestVM01-Win.vmdk
INFO:    [ 20-09-2023 14:35:17:177 ] -       CD/DVD drive 1 - Connected - [ISOImagesShared] gparted-live-0.26.0-2-i686.iso
INFO:    [ 20-09-2023 14:35:17:193 ] -       The requested migration date/time is '09/21/2023 15:55:00'
INFO:    [ 20-09-2023 14:35:17:427 ] -       The target Cluster 'vcf-m01-cl01' was found in Datacenter 'vcf-dc01' on the target vCenter Server
INFO:    [ 20-09-2023 14:35:17:427 ] -       Checking the required Datastores are available in the target cluster
INFO:    [ 20-09-2023 14:35:18:021 ] -       The source cluster Datastore 'ISOImagesShared' is available in the target cluster
INFO:    [ 20-09-2023 14:35:18:037 ] -       The source cluster Datastore 'UnityDS1' is available in the target cluster
INFO:    [ 20-09-2023 14:35:18:037 ] -       The source cluster Datastore 'UnityDS2' is available in the target cluster
INFO:    [ 20-09-2023 14:35:18:505 ] -       The source Resource Pool is '/Momus DC Site-A/Cluster 1/Resources/Migration RP Cluster1'
INFO:    [ 20-09-2023 14:35:18:552 ] -       The target Resource Pool 'Migration RP_vcf-m01-cl01' was found in the target Cluster 'vcf-m01-cl01'
INFO:    [ 20-09-2023 14:35:18:615 ] -       The target VM Folder 'Windows' was found in the target Datacenter 'vcf-dc01'
INFO:    [ 20-09-2023 14:35:18:615 ] -       Matched all SourcePG(s) to TargetPG(s)
INFO:    [ 20-09-2023 14:35:18:646 ] -       Saving TaskJson File to 'C:\Users\MartinCo\Documents\xvmFling\TaskJsonFiles\\TestVM01-Win__mc-vcsa-v-201-vcf-m01-
vc01.json'
```

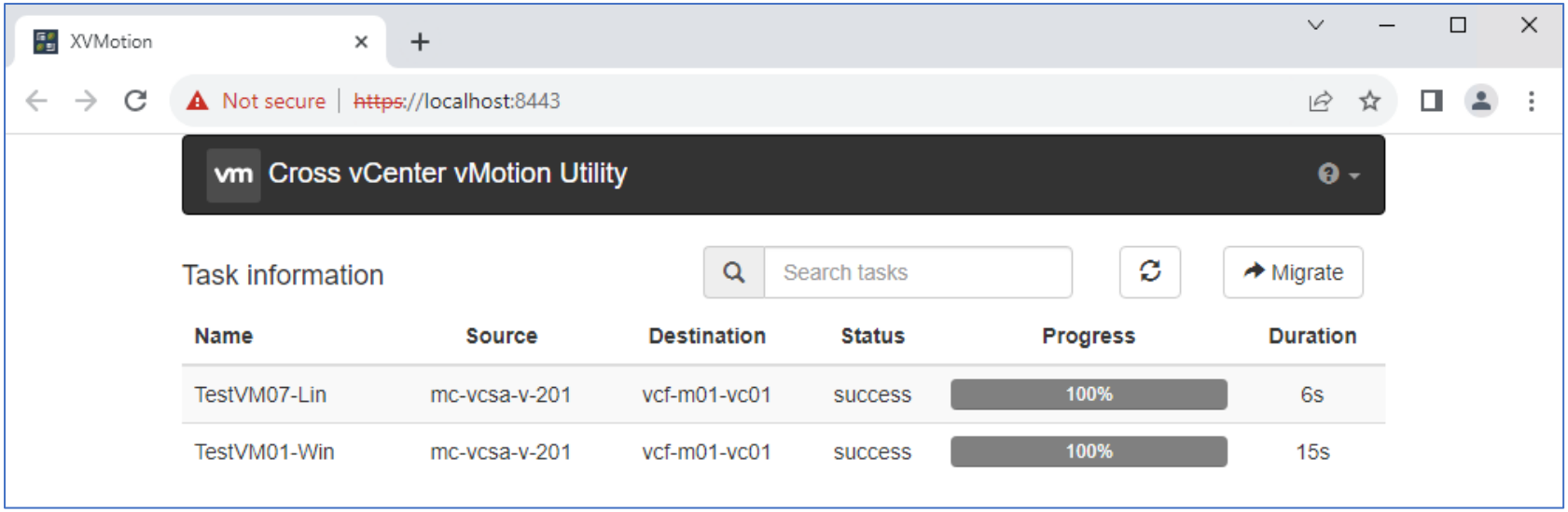
```
INFO:    [ 20-09-2023 14:35:19:740 ] -       Created new Task Scheduler task '\vSphere xvMotion Bulk Scheduler\TestVM01-Win Migration from mc-vcsa-v-201 to
vcf-m01-vc01'
INFO:    [ 20-09-2023 14:35:19:740 ] -
INFO:    [ 20-09-2023 14:35:19:755 ] - Scheduling migration for virtual machine TestVM07-Lin
INFO:    [ 20-09-2023 14:35:20:068 ] -       Power State: PoweredOn
INFO:    [ 20-09-2023 14:35:20:068 ] -       vCPUs: 1
INFO:    [ 20-09-2023 14:35:20:083 ] -       Memory GB: 6
INFO:    [ 20-09-2023 14:35:20:099 ] -       NICs: 2
INFO:    [ 20-09-2023 14:35:20:115 ] -       HDDs: 1
INFO:    [ 20-09-2023 14:35:20:130 ] -       RDMs: 0
INFO:    [ 20-09-2023 14:35:20:130 ] -       Hard disk 1 - VMDK (Thin) - 16 (GB) - [UnityDS5] TestVM07-Lin/TestVM07-Lin.vmdk
INFO:    [ 20-09-2023 14:35:20:146 ] -       CD/DVD drive 1 - Disconnected - No .iso file is mapped
INFO:    [ 20-09-2023 14:35:20:162 ] -       The requested migration date/time is '09/21/2023 16:35:00'
INFO:    [ 20-09-2023 14:35:20:380 ] -       The target Cluster 'vcf-wld01-cl02' was found in Datacenter 'vcf-dc01' on the target vCenter Server
INFO:    [ 20-09-2023 14:35:20:380 ] -       Checking the required Datastores are available in the target cluster
INFO:    [ 20-09-2023 14:35:20:568 ] -       The source cluster Datastore 'UnityDS5' is available in the target cluster
INFO:    [ 20-09-2023 14:35:20:958 ] -       The source Resource Pool is '/Momus DC Site-A/Cluster 2/Resources/Migration RP_Cluster2'
INFO:    [ 20-09-2023 14:35:21:021 ] -       The target Resource Pool 'Migration RP_vcf-wld01-cl02' was found in the target Cluster 'vcf-wld01-cl02'
INFO:    [ 20-09-2023 14:35:21:083 ] -       The target VM Folder 'Linux' was found in the target Datacenter 'vcf-dc01'
INFO:    [ 20-09-2023 14:35:21:115 ] -       Matched all SourcePG(s) to TargetPG(s)
INFO:    [ 20-09-2023 14:35:21:177 ] -       Saving TaskJson File to 'C:\Users\MartinCo\Documents\xvmFling\TaskJsonFiles\\TestVM07-Lin__mc-vcsa-v-201-vcf-m01-
vc01.json'
INFO:    [ 20-09-2023 14:35:21:287 ] -       Created new Task Scheduler task '\vSphere xvMotion Bulk Scheduler\TestVM07-Lin Migration from mc-vcsa-v-201 to
vcf-m01-vc01'
INFO:    [ 20-09-2023 14:35:21:287 ] -
```

3. Open Windows Task Scheduler and confirm the migration tasks are present under \vSphere xvMotion Bulk Scheduler\

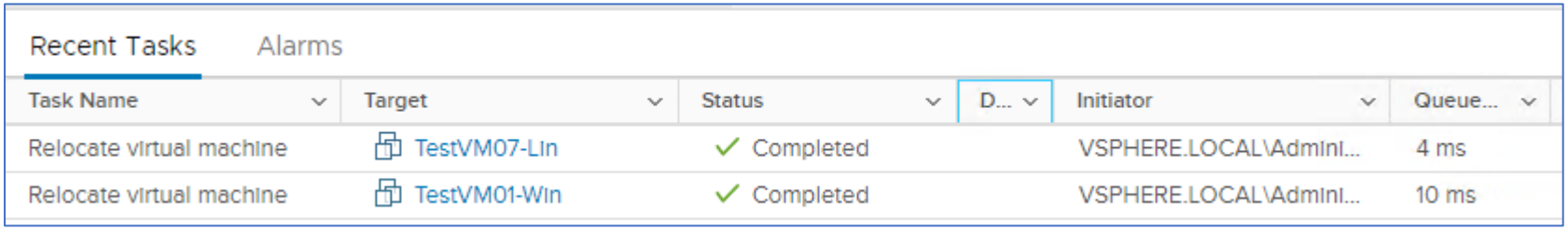


4. Wait for tasks to execute at the given time or right-click the task and select **run**. As each task executes, a blue PowerShell window will be briefly seen. The window is set to be hidden on task execution, but this is a known issue and has not yet been fixed.

5. The migration can be monitored from the xvm Web UI:



6. The migration tasks also can be monitored from either of the vCenter Servers.



7. If necessary, move the migrated VM into the correct Resource Pool and/or VM Folder.
8. Delete the tasks from Windows Task Scheduler
9. Done.