Update PC VM Categories

Objective

The script is designed to allow for bulk updates of Categories at the Prism Central level based on a vm name input filter. The idea being that it is a simple way to assign, or remove, categories at scale for the likes of Citrix MCS or Citrix PVS provisioned workloads.

Technical requirements for running the script

The script is compatible with Windows PowerShell 5.1 onwards.

This means that the technical requirements for the workstation or server running the script are as follows:

- 1. Any Windows version which can run Windows PowerShell 5.1
- 2. An appropriate credential with sufficient permissions to assign or remove categories to virtual machine entities within Prism Central

Parameter Details

The following parameters exist to drive the behaviour of the script:

Mandatory and recommended parameters:

- pc_source: Mandatory String. The Prism Central Source to target.
- Category: Mandatory String. The name of the Category to assign or remove.
- Value: Mandatory String. The value of the Category to assign or remove.
- VM_Pattern_Match: Mandatory String. A pattern match string to filter virtual machine entities.
- Mode: Mandatory String. What mode to operate in, either add or remove for the Category assignment.

Optional Parameters

- LogPath: Optional String. Log path output for all operations. The default is C:\Logs\MCSMigration.log
- LogRollover: Optional Int.Number of days before log files are rolled over. Default is 5

- VMCount: Optional Int. The number of virtual machine entities to retrieve from PC. Defaults to 1000.
- SleepTime: Optional Int. The amount of time to sleep between API task retrieval. Defaults to 5 seconds.
- APICallVerboseLogging: Optional. switch. Switch to enable logging output for API calls.
- UseCustomCredentialFile: Optional. switch. Will call the Get-CustomCredentials function which keeps outputs and inputs a secure credential file base on Stephane Bourdeaud from Nutanix functions.
- **CredPath**: Optional **String**. Used if using the UseCustomCredentialFile parameter. Defines the location of the credential file. The default is "\$Env:USERPROFILE\Documents\WindowsPowerShell\CustomCredentials".
- Whatif: Optional. Switch. Will action the script in a whatif processing mode only.
- async: Optional. Switch. Will bypass a status check on each operation performed on the VM. This will decrease processing time significantly.

Scenarios

Add a Category to all machines that match a naming input of *MCS in a whatif processing mode

Param Splatting:

```
.\UpdatePCVMCategories.ps1 -pc_source 1.1.1.1 -Category Citrix_Provisioning_Type -Value MCS -Mode Add -VM_Pattern_Match
"*MCS" -UseCustomCredentialFile -Whatif
```

- Connect to the Prism Central source 1.1.1.1.
- Check for existence of the Category Citrix_Provisioning_Type:MCS pair before proceeding.
- Pull all virtual machine entities and filter based on the *MCS name pattern.
- Action an Add of the Category to each VM in the list.
- Process in a whatif mode to identify which machines will be actioned. No changes to the environment will occur.

Add a Category to all machines that match a naming input of *MCS

Param Splatting:

```
.\UpdatePCVMCategories.ps1 -pc_source 1.1.1.1 -Category Citrix_Provisioning_Type -Value MCS -Mode Add -VM_Pattern_Match "*MCS" -UseCustomCredentialFile -async
```

- Connect to the Prism Central source 1.1.1.1.
- Check for existence of the Category Citrix_Provisioning_Type:MCS pair before proceeding.
- Pull all virtual machine entities and filter based on the *MCS name pattern.
- Action an Add of the Category to each VM in the list.
- Operate in an async mode where category updates will not have their task status checked.

Remove a Category to all machines that match a naming input of *MCS

Param Splatting:

```
.\UpdatePCVMCategories.ps1 -pc_source 1.1.1.1 -Category Citrix_Provisioning_Type -Value MCS -Mode Add -VM_Pattern_Match
"*MCS" -UseCustomCredentialFile
```

- Connect to the Prism Central source 1.1.1.1.
- Check for existence of the Category Citrix_Provisioning_Type:MCS pair before proceeding.
- Pull all virtual machine entities and filter based on the *MCS name pattern.
- Action a Remove of the Category to each VM in the list.
- Check each category action for a successful finish (task queried)

Add a Category to all machines that match a naming input of *PVS

Param Splatting:

```
.\UpdatePCVMCategories.ps1 -pc_source 1.1.1.1 -Category Citrix_Provisioning_Type -Value MCS -Mode Add -VM_Pattern_Match
"*MCS" -UseCustomCredentialFile
```

- Connect to the Prism Central source 1.1.1.1.
- Check for existence of the Category Citrix_Provisioning_Type:PVS pair before proceeding.
- Pull all virtual machine entities and filter based on the *PVS name pattern.
- Action an Add of the Category to each VM in the list.
- Check each category action for a successful finish (task queried)