PowerShell Scripts for K5

Pre-requisites

K5funcs.ps1, k5json.ps1 and k5env.csv downloaded from GitHub and copied to a suitable folder (e.g. C:\users*username*\WindowsPowerShell\Scripts)

K5env.csv populated with contract, project, username, password and proxy server details (NB Use Notepad to edit not Excel!)

Import the K5funcs.ps1 and k5json.ps1 script modules into the session before running the scripts

NOTE you can un-remark the "Import-Modules" lines at the top of each script and amend the path to where your scripts are located)

Obtain a token using Get-K5Token.

Create-K5-Network.ps1

Has the following parameters:

..\create-k5-networks.ps1 –NetworkName –SubNetName –RouterName –AZ –CIDR [-DNS] –ExternalNetwork

The script will create the Network, SubNet and Router using the names supplied.

- **NetworkName, SubNetName** and **RouterName** are all self explanatory.
- **AZ** is the availability zone to create the network in; e.g. uk-1a, uk-1b
- **CIDR** is the subnet range address e.g. 192.168.0.0/24
- **DNS** is optional; it will automatically add the default DNS server for the region
- **ExternalNetwork** is the K5 External/Public (e.g. inf_az1_ext-net01, inf_az2_ext-net01)

NOTE that this script automatically generates a Default Gateway address of the first address in the subnet range

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

Delete-K5-Network.ps1

Has the following parameters:

..\delete-k5-network.ps1 –SubNetName –RouterName –NetworkName

This script will delete the Router Interface, then the router, subnet and network as specific by the parameters, in the correct order

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv. It also uses the –Force switch so be careful – it will not prompt for confirmation!

Create-K5-server_int.ps1

There are no parameters as this is an interactive script which prompts for values. Some values are required to be selected form the GUI "Out-Gridview" feature in PowerShell; simply select and click OK.

Does not currently support creation from a Snapshot

The script assumes that only one disk is being associated with the server and therefore sets the Disk Device as "*/dev/vda*"

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

Programming Note

To create a server non-interactively, just use the Function "New-K5Server" in the K5funcs.ps1, with the appropriate parameters or put all the values in a script, e.g.

```
$AZ="uk-1b"
$flavorID = 1101
$source = "Image"
$server = "MyServer1"
$Volume_ID = "3d121a60-30e6-41bf-bd1b-d411011192db"
$deviceName = "/dev/vda"
$keyPair = "MyKeyPair"
$securityGroup = "MyGroup"
$netUUID = "925a6009-bf77-4a82-89a1-1afc69f8b69b"
$diskSize = 72
New-K5Server -token $token -AZ $AZ -server $server -Flavor $flavorID -Source $source -Image $Volume_ID -Disk
$diskSize -Device $deviceName -Network $netUUID -KeyPair $keyPair -SecurityGroup $securityGroup -useproxy
```

Delete-K5-Server_int.ps1

There are no parameters with this script. It will present a GUI dialog using PowerShell's "Out-Gridview", to select the server to delete. Select and click OK.

It will prompt for confirmation before deleting. This can be altered within the script by adding "–Force" to the "Remove-K5Server" function in the script (line 34).

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

Delete-Multiple-K5-Servers_int.ps1

There are no parameters with this script. It will present a GUI dialog using PowerShell's "Out-Gridview", to select the servers to delete. Select all that are required and click OK.

It will prompt for confirmation before deleting each one. This can be altered within the script by adding "–Force" to the "Remove-K5Server" function in the script (line 36).

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

Delete-K5-Objects_int.ps1

There are no parameters with this script. It will present a GUI dialog using PowerShell's "Out-Gridview", to select firstly the Container and then the objects.

Select the Container with the objects to be deleted, and then it will list all the Objects in that Container. Select all the Objects that you wish to delete and click OK.

All Object will be deleted without prompting.

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

Register-K5-Image.ps1

A VMDK disk file exported from VMWare can be registered as a K5 Image using the Import from Object Storage feature. This script allows you to select a disk file from Object Storage to register as an image IN THE CURRENTLY SCOPED PROJECT.

There are no parameters with this script. Firstly it will prompt for name to be given to the final image and will then present a GUI dialog using PowerShell's "Out-Gridview", to select firstly the Object Store Container and secondly the disk VMDK object in that container that is to be registered as an image.

NOTE that this script will create a Windows 2012R2SE image with a minimum disk size of 66GB. Amend these parameters in the script as required.

NOTE that this script assumes an Internet connection via a proxy server which must be configured in K5env.csv

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