Function	Version	K5 API Ref	Description	Parameters	Uses JSON Function
Copy-K5VMtoImage	V1.0 7/9/17	API – Foundation\Storage\System Storage\Create Image	Having created a VM in K5, this will clone that VM and register it as a private image in the image store (if the selected image name does not already exist). If the VM to be cloned is already being copied, it will not perform the clone.	-token Required, a token object for the transaction -VolumeID Required, the ID of the volume to be cloned -ImageName Required, the name of the image you wish to be created -Force Optional, specify True or False. If omitted it will default to 'false' which will only copy the VM if the disk is not in-use (i.e. attached to a VM) -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	Clonetoimage
Remove-K5Image	V1.0 6/9/17	Foundation\Compute\Other (Common)\Delete Image	Having registered a Private Image in an Image Store, this function will allow you to delete that image. Note that when you delete an image from the image store, it is no longer available even to other Projects it may have been shared with. You cannot delete an image that has been shared with you.	-token Required, a token object for the transaction -ImageID Required, the ID of the image to be deleted -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
Get-K5Volumes	V1.0 7/9/17	Foundation\Storage\System Storage\List Volumes (detailed)	Lists the Volume IDs of volumes currently located in Block Storage including their status and server to which they are attached if applicable. This is the same as Get-K5Resources –Type Volumes but with a shortened output	-token Required, a token object for the transaction -useProxy	

				Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
New-K5ImageMember	V1.0 22/11/17	Foundation\Compute\Other (Common)\Create Image Member	Having registered an image in the image store, this will share that image to another project ID. Note though, that the recipient needs to accept it!	-token Required, a token object for the transaction -MemberID The ID of the Project to the share the Image to -ImageID The ID of the Image to be shared -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	Sharetoproject
Confirm-K5ImageMember	V1.0 22/11/17	Foundation\Compute\Other (Common)\Update Image Member	Once an image has been shared to a Project, that Project needs to accept it. This function is used (from the receiving Project scope) to accept it.	-token Required, a token object for the transaction -MemberID The ID of the Project accepting the Image being shared -ImageID The ID of the Image to accept -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	Confirmfromproject
Get-K5ImageMembers	V1.0 22/11/17	Foundation\Compute\Other (Common)\List Image Member	Shows the Projects to whom a specified image is being shared (members) together with the status of the sharing.	-token Required, a token object for the transaction -ImageID The ID of the Image to display information for -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is	

				supplied then the proxyURL in k5env.csv will be used	
Get-K5ImageMemberDetails		Foundation\Compute\Other (Common)\Show Image Member Details	Shows the information about a specific image and project with whom the image is being shared and its status (as above but for a specific project)	-token Required, a token object for the transaction -MemberID The ID of the Project to see the details for -ImageID The ID of the Image to display the information for -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
Get-K5Objects	V1.0 7/9/17	Foundation\Storage\Object Storage\List Objects	Object storage in K5 consists of containers (similar to folders) which contain Objects (similar to files). This function will list all the objects in a stipulated container.	-token Required, a token object for the transaction -Container The name of the container (folder) to view the Objects in -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
Get-K5Images	V1.0 6/9/17	Foundation\Compute\Other (Common)\List Images (& List details for images)	The same as "Get-K5Resources –Type Images" but displays the information slightly differently. It includes an optional –Table parameter which will out the information in tabular format showing only the image, status, ID and Visibility.	-token Required, a token object for the transaction -ImageName Optional parameter to view details for a specific Image -Table Optional switch parameter to display the results in a table -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	

Import-K5OSImage	V1.3 21/11/17	Foundation\Compute\Virtual Server imports/exports\register Image	Having uploaded a disk image to the K5 Object Store, use this function to import it into the Image Store. It will convert the image to the RAW disk format and register it with the Image Store. NOTE that currently it does not support the optional API parameters of "checksum", "id", "kms" or "server_info"	-token Required, a token object for the transaction -ImageName The name for the new image as it will be seen in the Image Store -ImageLocn The location in the Object store of the disk file to import (relative path in Object Store e.g. v1\AUTH_projectid\mycontainer\myobject) -MinMem The minimum amount of RAM that users can request when creating VMs from this image -MinDisk The minimum amount of disk space that users must specify when creating VMs from this image -OSType The Operating System type of the image being imported. Use the keyword as provided in the K5 Foundation API Reference -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	Regobjstore
Get-K5Imports	V1.0 7/9/17	Foundation\Compute\Virtual Server imports/exports\Retrieve Image Registration Status (& List Image Registration Status)	Used to view the status of any and all images imported into the Image Store using "Import-K5OSImage". Lists all imports or use the "ImportID" parameter with the ID to view details for a specific Import	-token Required, a token object for the transaction -ImportID Optional parameter to display information about a specific import -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	

New-K5Container	V1.0 7/9/17	Foundation\Storage\Object Storage\Create Container	Creates a new Container (folder) in the Object Store of the current Project.	-token Required, a token object for the transaction -Container The name of the container (folder) to create -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
Remove-K5Container	V1.0 7/9/17	Foundation\Storage\Object Storage\Delete Container	Deletes a specified container from the current project. It will ask for confirmation before deleting. NOTE that it will not delete a container that has objects in it.	-token Required, a token object for the transaction -Container The name of the container (folder) to delete -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
Remove-K5Object	V1.0 7/9/17	Foundation\Storage\Object Storage\Delete Object	Deletes a specified Object (File) from a specified container in the current Project.	-token Required, a token object for the transaction -Container The name of the container (folder) with the objects to delete -Object The name of the object to delete -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	

Get-K5AuthData	V1.0 7/9/17		The K5 PowerShell function all use the "K5env.csv" file (in the same folder as the script itself) to obtain the K5 user name Contract, project, OpenSSL and Proxy information. This Function displays the information contained in the CSV file. BE CAREFUL the user's password is displayed in clear text.		
Set-K5CSVScope	V1.0 7/9/17		This function will edit the "K5Env.csv" file to change the scope (Project). You only need to supply the new scope name. NOTE that having changed the scope in this file, you will need to obtain a new token.	-NewScope The name of the Project to scope to	
New-K5Server	V1.0 7/9/17	Foundation\Compute\Virtual Servers\Create Server	Quite simply this will create a new Virtual Machine in K5 (I.e submit it to the build queue). It is important to remember that there mnust be a network available for new VMs to build properly. The function requires a unique name for the server and will fail if it is not. It creates a vm with a boot index of 0. Use the "Get-K5Resources –type server –name MyServer – detailed" function to see the progress of the VM once it has been successfully sent to the build queue	-token Required, a token object for the transaction -Server The name of the server to create (must be unique!) -AZ The availability zone to create the VM in (e.g. uk-1a) -Flavor The ID of the K5 VM flavour for the new machine. Flavors denote number of CPUs and RAM size) -Source What to create the VM from. Specify image, volume or snapshot -Image The ID of the source that is specified -Disk The size (in GB) of the OS Disk -Device The boot device/disk identification (e.g. /dev/vda, /dev/vdb, etc.) -Network The ID of the network to attach the VM to	newServer

				-Keypair The K5 keypair to use for VM password encryption/ssh -SecurityGroup Optional, the security Group associated with the VM. If omitted the default security group is used -DelOnterminate Optional Boolean value (true or false) to state whether volumes created with this VM will be deleted when the VM is deleted -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
Remove-K5Server	V1.0 8/9/17	Foundation\Compute\Virtual Servers\Delete Server	This will delete the VM as specified by the ServerID parameter. It uses the ID of the VM in case the name is not unique. It will get the name of the VM and request confirmation of deletion before actually deleting the VM.	-token Required, a token object for the transaction -ServerID The ID of the server to be removed -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
Start-K5Server	V1.0 8/9/17	Foundation\Compute\Virtual Servers\Start Server	If powered off, this will start a Virtual Machine. If the VM is already powered on or in the process of still being built, it will notify the user and cancel. NOTE that it uses the name of the VM so make sure this is unique!	-token Required, a token object for the transaction -Server The name of the server to be started -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is	StartSvr

				supplied then the proxyURL in k5env.csv will be used	
Stop-K5Server	V1.0 8/9/17	Foundation\Compute\Virtual Servers\Stop Server	If powered on, tshi will power of/stop a VM. If the VM is already powered off or in the process of being built, the function will notify the user and cancel. NOTE tah it uses the name of the VM so maeke sure tshi is unique! NOET also tha ttshi is a graceful shut down.	-token Required, a token object for the transaction -Server The name of the server to be stopped -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	StopSvr
Restart-K5Server	V1.0 8/9/17	Foundation\Compute\Virtual Servers\Reboot Server	If powered on, this will reboot a VM. If the VM is already powered off or in the process of being built, the function will notify the user and cancel. NOTE that it uses the name of the VM so make sure this is unique! You can specify a soft reboot or a hard reboot (same as a power recycle); the default is SOFT	-token Required, a token object for the transaction -Server The name of the server to be rebooted -BootType Optional. Specify "soft" (graceful OS restart) or "hard" (power recycle). Defaults to "Soft" if not specified -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	RestartSvr
New-K5Network	V1.0 18/09/17	Network\Network\Private Network Service\Create Network	This will create a new network. You need to provide the name for the network and the Availability Zone to create it on. It will then create the network on the Scoped project and output the UUID. Use "New-K5SubNet" to then create an associated Subnet on this network.	-token Required, a token object for the transaction -NetName The name for the new Network -AZ The availability zone to create the new network in (e.g. uk-1a, uk-1b, etc.) -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	NewNetwork

Remove-K5Network	V1.0 18/9/17	Network\Network\Private Network Service\Delete Network	This will delete a K5 network using either the name or ID. It will ask for confirmation before deleting and cancel if required. NOTE That you must delete all associated Router Interfaces, Routers and SubNets (in that orde) before the network can be deleted.	-token Required, a token object for the transaction -NetName Optional. The name of the network to delete (use one of either NetName or NetID) -NetID Optional. The ID of the network to delete (use one of either NetName or NetID) -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
New-K5SubNet	V1.0 18/9/17	Network\Network\Global IP Delivery Service\Create Subnet	Creates a new K5 IP v4 subnet and associates it with the specified Network. If DNS is not specified, the function will lookup the correct DNS servers for the current Region (as specified in the K5envs.csv) of the currently scoped project.	-token Required, a token object for the transaction -SubNetName The name for the new SubNet -NetID The ID of the network to be associated with this new SubNet -DNS Optional. The DNS servers for this subnet (if not stated, the default K5 DNS servers are used) -CIDR The IPv4 subnet address (e.g. 192.168.0.0/24) -Gateway Optional. The IP address to assign to the default gateway (e.g. 192.168.0.1) -AZ	NewSubnet

				The availability zone to create the new subnet in (must eb the same as the Network!)	
				-useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	
Remove-K5Subnet	V1.0 18/9/17	Network\Network\Global IP Delivery Service\Delete Subnet	Deletes a specified K5 IP v4 subnet and associates it with the specified Network. NOET that any associated Router Interfaces and Routers must be deleted (in that order) before deleting the subnet.	-token Required, a token object for the transaction -SubNetName The name of the subnet to delete -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
New-K5Router	V1.0 18/9/17	Network\Network\Network Connector Service\Create Router	This creates ane wK5 Router . It si created without an interace which is required to make it attach it to a network/subnet combination and make it usable (see New-K5RouterInterface).	-token Required, a token object for the transaction -RouterName The name of the router to be created -AZ The availability zone to create the router in -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	NewRouter
Remove-K5Router	V1.0 18/9/17	Network\Network\Network Connector Service\Delete Router	Deletes a specified K5 network router. It will prompt for confirmation before receding or cancel if required. NOET that any associated Router Interfaces must be deleted before the router can be deleted.	token Required, a token object for the transaction -RouterName The name of the router to delete	

				-useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force Optional switch parameter to force deletion without prompting for confirmation	
New-K5RouterInterface	V1.0 18/9/17	Network\Network\Network Connector Service\Add interface to router	Required to make a network router operative, tshi crates a new internal interface on a n existing router to connect it to the user subnet and route with the K5 network.	-token Required, a token object for the transaction -SubNetID The ID of the internal subnet to connect the new router interface to -RouterID The ID of the router to create the new interface on -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	NewRouterIF
Remove-K5RouterInterface	V1.0 18/9/17	Network\Network\Network Connector Service\Remove interface from router	Deletes the specified Router Interface ascocoiated with a specified router and subnet. Prompts for confirmation before proceeding or cancels if requested.	-token Required, a token object for the transaction -RouterName The name of the router to delete the interface from -SubNetName The name of the internal subnet associated with the interface being deleted -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used -Force	

				Optional switch parameter to force deletion without prompting for confirmation	
Update-K5Router	V1.0 18/9/17	Network\Network\Network Connector Service\Update router	Once a Router has been created and an internal interface added to it, the router must be updated to allow it to route to the K5 External Network. This function does just that and assigns the Gateway IP Address specified for the internal subnet.	-token Required, a token object for the transaction -Router The name of the router to update (i.e. that will act as the gateway) -ExtNetwork The name of the external K5 network to connect the router to -useProxy Optional, switch parameter to specify that a proxy must be used, if this switch is supplied then the proxyURL in k5env.csv will be used	RouterGateway