

# pyVMC all supported Commands

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## Current Supported Commands

Here are the currently supported 'super' commands:

»	<code>csp</code>	Commands related to the Cloud Service Portal itself.
	<code>sddc</code>	Commands related to the Software Defined Datacenter (SDDC).
	<code>tkg</code>	Commands related to the Tanzu Kubernetes Service (TKG).
	<code>segment</code>	Create, delete, update, and show Virtual Machine network segment.
	<code>vpn</code>	Create, delete, update, and show virtual private network (VPN).
	<code>nat</code>	Show and update Network Address Translation (NAT) rules.
	<code>t1</code>	Create, delete, update, and show secondary T1 gateway.
	<code>vtc</code>	Commands related to VMware Transit Connect (VTC).
	<code>gwfw</code>	Show and update policies and rules associated with NSX Gateway Firewall (GWFW).
	<code>dfw</code>	Show and update policies and rules associated with NSX Distributed Firewall (DFW).
	<code>nsxaf</code>	Commands related to the NSX Advanced Firewall (NSXAF) – e.g. <code>nsxaf policy create</code> .

inventory  
system  
search-nsx  
vcd  
flexcomp

Show and update objects in the NSX Inventory (groups,  
Show and update configuration data associated with the  
Search the NSX Manager inventory.  
Create, delete, update, and show information about VMs  
Commands related to the Cloud Flex Compute itself.

## Authentication

pyVMC supports both **refresh\_token** and **OAuth AppId/Secret** way to authenticate. Values for it needs to be specified in config.ini file. Default auth method is to use **refresh\_token**.

If one wants to use OAuth, then **--oauth** switch needs to be provided when running the command.

Examples:

Using default 'refresh\_token'

```
➤ ./pyVMC.py sddc show-sddcs
```

Using OAuth

```
➤ ./pyVMC.py sddc show-sddcs --oauth
```

## Getting Help

To see the supported commands for any given category / super-command, simply use '-h'... for example:

```
➤ ./pyVMC.py vcd -h
usage: vcd [-h] {scfs,pg,snaps,rsddc,psite,vms} ...
```

positional arguments:

{scfs,pg,snaps,rsddc,psite,vms}

	vcd sub-command help
scfs	VCD cloud file system - use '-h' for help.
pg	VCD Protection Groups - use '-h' for help.
snaps	VCD Snapshots - use '-h' for help.
rsddc	VCD Recovery SDDC - use '-h' for help.
psite	VCD Protected Site - use '-h' for help.
vms	VCD cloud file system - use '-h' for help.

optional arguments:

-h, --help show this help message and exit

Similarly, to see the options for any given command, run the individual command with the -h option:

```

>> ./pyVMC.py vcdr scfs -h
usage: vcdr scfs [-h] {show} ...

positional arguments:
  {show}          vcdr scfs sub-command help
  show            Show information about the VCDR Scale-out file System(s).

optional arguments:
  --oauth [OAUTH]    Used to specify use of OAuth app ID and secret in config.ini instead of
  -h, --help          show this help message and exit

```

## 1. CSP commands

```

>> usage: csp [-h]
           {show-csp-services,show-csp-service-roles,get-access-token,add-users-to-csp-group,
           ...

positional arguments:
  {show-csp-services,show-csp-service-roles,get-access-token,add-users-to-csp-group,show-csp-?}
                                csp sub-command help
  show-csp-services            Show the entitled services in the
                                VMware Cloud Service Console.
  show-csp-service-roles       Show the entitled service roles in the
                                VMware Cloud Service Console.
  get-access-token             show your access token
  add-users-to-csp-group       CSP user to a group
  show-csp-group-diff          this compares the roles in the
                                specified group with every user in the
                                org and prints out a user-by-user diff
  show-csp-group-members       show CSP group members
  show-csp-groups              To show CSP groups which contain
                                GROUP_SEARCH_TERM string

  search-csp-org-users         Search for users in the CSP or org.
  find-csp-user-by-service-role Search for CSP users with a specific
                                service role. First use show-csp-
                                service-roles to see entitled roles
  show-org-users               Show all organization users

optional arguments:
  -h, --help                  show this help message and exit

```

## 2. SDDC commands

```

>> usage: sddc [-h]
           {show-compatible-subnets,show-connected-accounts,set-sddc-connected-services,show-

```

...

positional arguments:

{show-compatible-subnets,show-connected-accounts,set-sddc-connected-services,show-sddc-conne

	sddc sub-command help
show-compatible-subnets	show compatible native AWS subnets connected to the SDDC
show-connected-accounts	show native AWS accounts connected to the SDDC
set-sddc-connected-services	change whether to use S3 over the Internet(false) or via the ENI(true)
show-sddc-connected-vpc	show the VPC connected to the SDDC
show-shadow-account	show the Shadow AWS Account VMC is deployed <b>in</b>
show-sddc-state	get a view of your selected SDDC
show-sddc-hosts	display a list of the hosts <b>in</b> your SDDC
show-sddcs	display a list of your SDDCs
show-vm	get a list of your VMs
create	create an SDDC
delete	delete an sddc
watch-task	watch a task <b>for</b> a long running sddc create or delete
cancel-task	cancel a long running task

optional arguments:

-h, --help show this help message and exit

## 3. TKG commands

►► usage: tkg [-h] {enable-tkg,disable-tkg} ...

positional arguments:

{enable-tkg,disable-tkg}	sddc sub-command help
enable-tkg	Enable Tanzu Kubernetes Grid on an SDDC
disable-tkg	Disable Tanzu Kubernetes Grid on an SDDC

optional arguments:

-h, --help show this help message and exit

## 4. Networking related commands

### 4.1 Segment commands

►► usage: segment [-h] {create,delete,show,update} ...

positional arguments:

{create,delete,show,update}

	segment sub-command help
create	Create a new virtual machine network segment.
delete	Delete a virtual machine network segment.
show	Show the current virtual machine network segments.
update	Update the configuration of a virtual machine network segment.

optional arguments:

-h, --help	show this help message and exit
------------	---------------------------------

## 4.2 VPN commands

► usage: vpn [-h]  
           {new-l2vpn,remove-l2VPN,remove-vpn,remove-vpn-ike-profile,remove-vpn-ipsec-tunnel-  
           ...

positional arguments:

{new-l2vpn,remove-l2VPN,remove-vpn,remove-vpn-ike-profile,remove-vpn-ipsec-tunnel-profile,sl	vpn sub-command help
new-l2vpn	create a new L2VPN
remove-l2VPN	remove a L2VPN
remove-vpn	remove a VPN
remove-vpn-ike-profile	remove a VPN IKE profile
remove-vpn-ipsec-tunnel-profile	To remove a VPN IPSec Tunnel profile
show-l2vpn	show l2 vpn
show-l2vpn-services	show l2 vpn services
show-vpn	show the configured VPN
show-vpn	show the VPN statistics
show-vpn-ike-profile	show the VPN IKE profiles
show-vpn-internet-ip	show the public IP used for VPN services
show-vpn-ipsec-tunnel-profile	show the VPN tunnel profile
show-vpn-ipsec-endpoints	show the VPN IPSec endpoints
rbvpn-prefix-list	Create and configure route-based VPN prefix lists.
rbvpn-neighbors	Show and configure BGP Neighbors for route-based VPN.

optional arguments:

-h, --help	show this help message and exit
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## 4.3 NAT commands

► usage: nat [-h] {new-nat-rule,remove-nat-rule,show-nat} ...

positional arguments:

{new-nat-rule,remove-nat-rule,show-nat}	
	nat sub-command help
new-nat-rule	To create a new NAT rule
remove-nat-rule	remove a NAT rule
show-nat	show the configured NAT rules

optional arguments:

-h, --help	show this help message and exit
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## 4.4 VTC commands

► usage: vtc [-h] {connect-aws,disconnect-aws,attach-dxgw,detach-dxgw,get-sddc-info,get-nsx-info,attach-sddc,delete-sddc-group,delete-sddc-group,create-sddc-group,delete-sddc-group,get-group-info,attach-vpc,detach-vpc,vpc-prefixes} ...

positional arguments:

{connect-aws,disconnect-aws,attach-dxgw,detach-dxgw,get-sddc-info,get-nsx-info,attach-sddc,delete-sddc-group,delete-sddc-group,create-sddc-group,delete-sddc-group,get-group-info,attach-vpc,detach-vpc,vpc-prefixes}	
	vtc sub-command help
connect-aws	Connect an vTGW to an AWS account
disconnect-aws	Disconnect a vTGW from an AWS account
attach-dxgw	Attach a Direct Connect Gateway to a vTGW
detach-dxgw	Detach a Direct Connect Gateway from a vTGW
get-sddc-info	Display a list of all SDDCs
get-nsx-info	Display NSX credentials and URLs
attach-sddc	Attach an SDDC to a vTGW
detach-sddc	Detach an SDDC from a vTGW
create-sddc-group	Create an SDDC group
delete-sddc-group	Delete an SDDC group
get-group-info	Display details for an SDDC group
attach-vpc	Attach a VPC to a vTGW
detach-vpc	Detach VPC from a vTGW
vpc-prefixes	Add or remove vTGW static routes

optional arguments:

-h, --help	show this help message and exit
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## 5. NSX related commands

### 5.1 T1 commands

► usage: t1 [-h] {create,delete,update} ...

positional arguments:

{create,delete,update}	
	t1 sub-command help
create	Create a new, secondary T1 gateway.
delete	Delete a secondary T1 gateway.

update                      Update the configuration of a secondary T1 gateway.

optional arguments:

-h, --help                show this help message and exit

## 5.2 GFWW commands

► usage: gfw [-h]  
          {new-cgw-rule,new-mgw-rule,remove-cgw-rule,remove-mgw-rule,show-cgw-rule,show-mgw-rule,...}

positional arguments:

{new-cgw-rule,new-mgw-rule,remove-cgw-rule,remove-mgw-rule,show-cgw-rule,show-mgw-rule}

	gfw sub-command help
new-cgw-rule	create a new CGW security rule
new-mgw-rule	create a new MGW security rule
remove-cgw-rule	delete a CGW security rule
remove-mgw-rule	delete a MGW security rule
show-cgw-rule	show the CGW security rules
show-mgw-rule	show the MGW security rules

optional arguments:

-h, --help                show this help message and exit

## 5.3 DFW commands

► usage: dfw [-h]  
          {new-dfw-rule,new-dfw-section,remove-dfw-rule,remove-dfw-section,show-dfw-section,show-dfw-section-rules,...}

positional arguments:

{new-dfw-rule,new-dfw-section,remove-dfw-rule,remove-dfw-section,show-dfw-section,show-dfw-section-rules}

	dfw sub-command help
new-dfw-rule	create a new DFW security rule
new-dfw-section	create a new DFW section
remove-dfw-rule	delete a DFW rule
remove-dfw-section	delete a DFW section
show-dfw-section	show the DFW sections
show-dfw-section-rules	show the DFW security rules within a section

optional arguments:

-h, --help                show this help message and exit

## 5.4 NSXAF commands

► usage: nsxaf [-h]  
          {show-nsxaf-status,show-ids-cluster-status,enable-cluster-ids,disable-cluster-ids,...}

---

positional arguments:

```
{show-nsxaf-status,show-ids-cluster-status,enable-cluster-ids,disable-cluster-ids,enable-all-cluster-ids,enable-cluster-ids,disable-cluster-ids,enable-all-cluster-ids,disable-all-cluster-ids,enable-ids-auto-update,ids-update-signatures,show-ids-signature-versions,show-ids-profiles,search-product-affected,create-ids-profile,show-ids-policies,create-ids-policy,show-ids-rules,create-ids-rule}
nsxaf sub-command help
show-nsxaf-status      Display the status of the NSX Advanced Firewall Add-on
show-ids-cluster-status Show IDS status for each cluster in the SDDC
enable-cluster-ids     Enable IDS on cluster
disable-cluster-ids    Disable IDS on cluster
enable-all-cluster-ids Enable IDS on all clusters
disable-all-cluster-ids Disable IDS on all clusters
enable-ids-auto-update Enable IDS signature auto update
ids-update-signatures  Force update of IDS signatures
show-ids-signature-versions Show downloaded signature versions
show-ids-profiles      Show all IDS profiles
search-product-affected Search through the active IDS signature for specific product affected. Useful when building an IDS Profile
create-ids-profile      Create an IDS profile with either Product Affected, CVSS or both.
show-ids-policies       List all IDS policies
create-ids-policy       Create an IDS policy
show-ids-rules          List all IDS rules
create-ids-rule         Create an IDS rule using previously created IDS profile and inventory groups
```

optional arguments:

```
-h, --help            show this help message and exit
```

## 5.5 Inventory commands

► usage: inventory [-h] {new-group,remove-group,show-group,show-group-association,new-service,remove-service,show-services} ...

positional arguments:

```
{new-group,remove-group,show-group,show-group-association,new-service,remove-service,show-services}
inventory sub-command help
new-group          create a new group
remove-group       remove a group
show-group         show existing groups
show-group-association show security rules used by a groups
new-service        create a new service
remove-service     remove a service
show-services      show services
```

optional arguments:

```
-h, --help            show this help message and exit
```



## 5.6 System commands

► usage: system [-h]  
          {show-dns-services,show-dns-zones,new-sddc-public-ip,remove-sddc-public-ip,set-  
          ...

positional arguments:

{show-dns-services,show-dns-zones,new-sddc-public-ip,remove-sddc-public-ip,set-sddc-public-:

	system sub-command help
show-dns-services	Show currently configured DNS services
show-dns-zones	Show currently configured DNS zone services.
new-sddc-public-ip	request a new public IP
remove-sddc-public-ip	remove an existing public IP
set-sddc-public-ip	update the description of an existing public IP
show-sddc-public-ip	show the public IPs
mtu	Show and update configuration data associated with Maximum Transmission Unit value <b>for</b> the Intranet Interface.
asn	Show and update configuration data associated with Autonomous System Number value <b>for</b> the Intranet Interface.
dx-admin-cost	Use to view currently configured routing preference / admin cost – VPN or DX.
show-egress-interface-counters	show current Internet interface egress counters
show-routes	Show SDDC routes

optional arguments:

-h, --help show this help message and exit

## 5.7 serach-nsx commands

► usage: search-nsx [-h] [--nsxm [NSXM]]  
          [-ot {BgpNeighborConfig,BgpRoutingConfig,Group,IdsSignature,PrefixList,Rou-  
          [-oid OBJECT\_ID]

optional arguments:

-h, --help	show this help message and exit
--nsxm [NSXM]	Used to specify NSX Manager instead of NSX proxy (Def:
-ot {BgpNeighborConfig,BgpRoutingConfig,Group,IdsSignature,PrefixList,RouteBasedIPSecVPNSes:	The type of object to search for.
-oid OBJECT_ID, --object_id OBJECT_ID	The name of the object you are searching for.

## 6. VCDR commands

► usage: vcdr [-h] {scfs,pg,snaps,rsddc,psite,vms} ...

positional arguments:

{scfs,pg,snaps,rsddc,psite,vms}

	vcdr sub-command help
scfs	VCDR cloud file system - use '-h' for help.
pg	VCDR Protection Groups - use '-h' for help.
snaps	VCDR Snapshots - use '-h' for help.
rsddc	VCDR Recovery SDDC - use '-h' for help.
psite	VCDR Protected Site - use '-h' for help.
vms	VCDR cloud file system - use '-h' for help.

optional arguments:

-h, --help show this help message and exit

## 7. Flex Compute commands

► usage: flexcomp [-h]  
{activity-status,show-all-namespaces,validate-network,create-flexcompute,delete-flexcomp,show-flex-comp-templates,show-all-vms,show-all-images,create-vm,power-operation,delete-vm} ...

positional arguments:

{activity-status,show-all-namespaces,validate-network,create-flexcompute,delete-flexcomp,show-flex-comp-templates,show-all-vms,show-all-images,create-vm,power-operation,delete-vm}	flexcomp sub-command help
activity-status	Get activity status of long running tasks
show-all-namespaces	Show all present Cloud Flex Compute Name Spaces
validate-network	Validate network CIDR before creating Cloud Flex Compute
create-flexcompute	Create new Cloud Flex Compute
delete-flexcomp	Delete existing Cloud Flex Compute
show-flex-comp-regions	Show available Cloud Flex Compute regions
show-flex-comp-templates	Show available Cloud Flex Compute resource templates
show-all-vms	Show all VMs in Cloud Flex Compute instance
show-all-images	Show all images available to create VMs from
create-vm	Create VM
power-operation	Perform Power Operations on VM
delete-vm	Delete VM. Make sure VM is in powerd OFF state.

options:

-h, --help