

Proxmox - General Commands Cheatsheet

Virtual Machine Management (QEMU/ KVM)

List all VMs and their status

```
$ qm list
```

```
//Example:  
$ qm list
```

Start VM with given ID

```
$ qm start <vmid>
```

```
//Example:  
$ qm start 100
```

Stop VM with given ID

```
$ qm stop <vmid>
```

```
//Example:  
$ qm stop 100
```

Graceful shutdown of VM

```
$ qm shutdown <vmid>
```

```
//Example:  
$ qm shutdown 100
```

Reboot VM

```
$ qm reboot <vmid>
```

```
//Example:  
$ qm reboot 100
```

Delete VM and attached settings

```
$ qm destroy <vmid>
```

```
//Example:  
$ qm destroy 100
```

Migrate VM between nodes

```
$ qm migrate <vmid> <target-node>
```

```
//Example:  
$ qm migrate 100 node2
```

Clone existing VM

```
$ qm clone <vmid> <newid>
```

```
//Example: ( " - full" for full disk copy)  
$ qm clone 100 110 --name "VM-Clone" --full
```

Create a Snapshot of a VM

```
$ qm snapshot <vmid> <name>
```

```
//Example:  
$ qm snapshot 100 pre-update
```

List all Snapshots for a VM

```
$ qm listsnapshot <vmid>
```

```
//Example:  
$ qm listsnapshot 100
```

Restore VM to a Snapshot

```
$ qm rollback <vmid> <snapshot>
```

```
//Example:  
$ qm rollback 100 pre-update
```

Change a VM's Configuration Options

```
$ qm set <vmid> [options]
```

```
//Example:  
$ qm set 100 --cores 4 --memory 4096 --net0 virtio,bridge=vmbro
```

Display VM Configuration

```
$ qm config <vmid>
```

```
//Example:  
$ qm config 100
```

LXC Container Management (pct)

List all LXCs

```
$ pct list
```

```
//Example:  
$ pct list
```

Start (boot-up) LXC

```
$ pct start <ctid>
```

```
//Example:  
$ pct start 100
```

Stop (abrupt power down) LXC

```
$ pct stop <ctid>
```

```
//Example:  
$ pct stop 100
```

Create New CT with Given ID & Specified OS

```
$ pct create <ctid> <template> [options]
```

```
//Example:  
$ pct create 200 local:vztmpl/debian-11-standard_11.0-1_amd64.tar.gz --cores 2 --memory 1024
```

Shutdown (Graceful) LXC

```
$ pct shutdown <ctid>
```

```
//Example:  
$ pct shutdown 100
```

RebootLXC

```
$ pct reboot <ctid>
```

```
//Example:  
$ pct reboot 100
```

Delete (destroy) LXC

```
$ pct destroy <ctid>
```

```
//Example:  
$ pct destroy 100
```

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LXC Container Management (pct) Continued

Migrate CT to another Node

```
$ pct migrate <ctid> <node>
```

```
//Example:  
$ pct migrate 100 node2
```

Create Snapshot of a CT

```
$ pct snapshot <ctid> <name>
```

```
//Example:  
$ pct snapshot 100 pre-upgrade
```

List all Snapshots for a CT

```
$ pct listsnapshot <ctid>
```

```
//Example:  
$ pct listsnapshot 100
```

Restore CT to a Snapshot

```
$ pct rollback <ctid> <snapshot>
```

```
//Example:  
$ pct rollback 100 pre_upgrade
```

Execute Command Inside CT

```
$ pct resize <ctid> <disk> <size>
```

```
//Example:  
$ pct resize 100 rootfs 15G
```

Open a Shell into a CT

```
$ pct enter <ctid>
```

```
//Example:  
$ pct enter 100
```

Execute Command Inside CT

```
$ pct resize <ctid> <disk> <size>
```

```
//Example:  
$ pct resize 100 rootfs 15G
```

Firewall Management (PVE Firewall)

Check PVE Firewall Status

```
$ pve-firewall status
```

```
//Example:  
$ pve-firewall status
```

Reload Firewall Config All-Nodes

```
$ pve-firewall reload
```

```
//Example:  
$ pve-firewall reload
```

Display Proxmox Firewall Log

```
$ pve-firewall log
```

```
//Example:  
$ pve-firewall log
```

Create new Firewall Rule

```
$ pve-firewall create rule -action accept -macro <service>
```

```
//Example:  
$ pve-firewall create rule -action accept -macro ssh
```

Delete Firewall Rule

```
$ pve-firewall delete rule <rule-id>
```

```
//Example:  
$ pve-firewall delete rule 3
```

Other Commands

Backup and Restore (VM or CT) to Archive File

```
$ vzdump <vmid> [options]
```

```
//Example:  
$ vzdump 100 --mode snapshot --compress zstd --storage local --notes "Nightly backup"
```

Show Version of Proxmox VE

```
$ pveversion -v
```

```
//Example:  
$ pveversion -v
```

Restore QEMU VM from a Backup Archive

```
$ qmrestore <backup-file> <vmid> [options]
```

```
//Example:  
$ qmrestore backup/vzdump-qemu-100-2025_07_01.vma 100 --force
```