Proxmox VE Virtualization platform CLI

CONCEPTS

> qm manages QEMU/KVM VMs, pct manages LXC containers. Both share one ID space: every guest has a unique numeric VMID (100 and up) across the cluster.

> Disks, ISOs, templates and backups are addressed by volume ID, storage:name, e.g. local-lvm:vm-100-disk-0 or local:iso/<file>.iso.

VM LIFECYCLE

`qm list`
List VMs with status, memory, PID

`qm start <vmid>`
Start a VM

`qm shutdown <vmid>`
Ask the guest to shut down

`qm stop <vmid>`
Hard stop, like pulling the plug

`qm unlock <vmid>`
Clear a stale lock

VM CONSOLE & GUEST AGENT

`qm terminal <vmid>`
Attach to the serial console

VM CONFIGURATION

`qm config <vmid>`
Show the VM's settings

`qm set <vmid> --memory <MiB>`
Set RAM

`qm set <vmid> --cores <n>`
Set CPU cores

TEMPLATES, CLONES & SNAPSHOTS

`qm snapshot <vmid> <name>`
Take a snapshot

TEMPLATES, CLONES & SNAPSHOTS (cont.)

`qm rollback <vmid> <name>`
Revert to a snapshot

`qm clone <vmid> <newid> --name <name>`
Clone a VM or template

CONTAINERS (PCT)

`pct list`
List containers

`pct create <vmid> <template> --rootfs <storage>:<GiB>`
Create a container

`pct start <vmid>`
Start a container

`pct enter <vmid>`
Root shell inside

`pct shutdown <vmid>`
Clean shutdown

CONTAINER TEMPLATES (PVEAM)

`pveam available --section system`
List downloadable OS templates

`pveam download <storage> <template>`
Download a template

STORAGE (PVESM)

`pvesm status`
Storages with type and usage

BACKUP & RESTORE

`vzdump <vmid> --storage <storage>`
Back up a VM or container

`qmrestore <archive> <vmid> --storage <storage>`
Restore a VM backup

`pct restore <vmid> <archive> --storage <storage>`
Restore a container backup