Proxmox Virtual Environment commands

Proxmox commands

Command	Description	Example
qm create <VMID> --name <VMName>	Create a new virtual machine with a specified ID and name.	qm create 100 --name myVM
qm start <VMID>	Start a virtual machine by its ID.	qm start 100
qm stop <VMID>	Stop a running virtual machine by its ID.	qm stop 100
qm del <VMID>	Delete a virtual machine and its configuration.	qm del 100
qm clone <SourceVMID> <NewVMID>	Clone an existing VM to create a new VM.	qm clone 100 101 --name myVM_clone
qm list	List all virtual machines along with their IDs and status.	qm list
vzdump <VMID> --storage <StorageID>	Create a backup of a VM to specified storage.	vzdump 100 --storage local
qmrestore <BackupFile> <NewVMID>	Restore a VM from a backup file.	qmrestore /var/dump/vzdump-qemu-100.vma.lzo 102
qm set <VMID> --<option> <value>	Modify VM configuration options such as memory, cores, etc.	qm set 100 --memory 4096
qm status <VMID>	Check the current status (running, stopped, etc.) of a VM.	qm status 100
qm terminal <VMID>	Access the console of a virtual machine.	qm terminal 100
qm migrate <VMID> <TargetNode>	Migrate a VM to a different node in a cluster.	qm migrate 100 pve2
qm shutdown <VMID>	Gracefully shutdown a VM (similar to a power off).	qm shutdown 100
qm bootdisk <VMID> --delete	Delete the boot disk of	qm bootdisk 100 --delete

Command	Description	Example
	a VM.	
qm rescan	Rescan for hardware changes on the host system.	qm rescan
qm resize <VMID> <disk> <size>	Resize a disk in a virtual machine.	qm resize 100 scsi0 +10G
qm agent <VMID> <command>	Execute commands in the VM using QEMU agent (if installed).	qm agent 100 ping
qm set <VMID> --net0 <netType>,bridge=<bridge>	Configure network settings for a VM.	qm set 100 --net0 virtio,bridge=vmbr0
qm set <VMID> --onboot 1	Set a VM to start on boot.	qm set 100 --onboot 1
qm stop <VMID> --skiplock	Stop a VM without locking it.	qm stop 100 --skiplock
qm set <VMID> --ciuser <username>	Set cloud-init username for a VM.	qm set 100 --ciuser admin
qm set <VMID> --cipassword <password>	Set cloud-init password for a VM.	qm set 100 --cipassword secret
qm set <VMID> --ide2 <storage>:cloudinit	Attach cloud-init drive to the VM.	qm set 100 --ide2 local:cloudinit
qm template <VMID>	Convert a VM into a template.	qm template 100
qm start <VMID> --skiplock	Start a VM without locking it.	qm start 100 --skiplock
qm set <VMID> --sockets <num>	Set the number of CPU sockets for a VM.	qm set 100 --sockets 1
qm set <VMID> --cores <num>	Set the number of CPU cores for a VM.	qm set 100 --cores 4
qm set <VMID> --memory <size>	Adjust the memory allocated to a VM.	qm set 100 --memory 8192
qm set <VMID> --ostype <osType>	Specify the operating system type for a VM.	qm set 100 --ostype l26
qm set <VMID> --scsi0 <storage>:<disk>	Configure an SCSI disk for the VM.	qm set 100 --scsi0 local-lvm:vm-100-disk-0
qm set <VMID> --cpu <cpuType>	Specify the CPU type for a VM.	qm set 100 --cpu host
qm set <VMID> --bios <biosType>	Set the BIOS type for a VM.	qm set 100 --bios ovmf
qm set <VMID> --bootdisk <disk>	Specify the boot disk for a VM.	qm set 100 --bootdisk scsi0
qm set <VMID> --vga <vgaType>	Set the video adapter for a VM.	qm set 100 --vga serial0

Command	Description	Example
qm set <VMID> --numa <num>	Configure NUMA settings for a VM.	qm set 100 --numa 1
qm set <VMID> --agent 1	Enable QEMU Guest Agent for a VM.	qm set 100 --agent 1
qm set <VMID> --usb0 <usbType>	Configure a USB device for a VM.	qm set 100 --usb0 host:1-1
qm list --full	Display detailed information for all VMs.	qm list --full
qm set <VMID> --hotplug 1	Enable hotplug for devices on a VM.	qm set 100 --hotplug 1
qm set <VMID> --memory <size> --balloon	Set memory ballooning options for dynamic memory management.	qm set 100 --memory 4096 --balloon 2048
qm set <VMID> --ipconfig0 ip=192.168.1.100/24,gw=192.168.1.1	Set static IP for a VM.	qm set 100 --ipconfig0 ip=192.168.1.100/24,gw=192.168.1.1
qm unlock <VMID>	Unlock a VM that is currently locked.	qm unlock 100
qm shutdown <VMID> --timeout <seconds>	Shutdown a VM with a specified timeout.	qm shutdown 100 --timeout 60
qm set <VMID> --tga <tgaType>	Configure TGA settings for a VM.	qm set 100 --tga serial0
qm set <VMID> --rtc <rtcType>	Set real-time clock options for a VM.	qm set 100 --rtc UTC
qm set <VMID> --cpuunits <units>	Set CPU weight units for resource allocation.	qm set 100 --cpuunits 1024
qm start <VMID> --force	Force start a VM regardless of current state.	qm start 100 --force
qm set <VMID> --forcestop 1	Force stop a VM immediately.	qm set 100 --forcestop 1
qm set <VMID> --cpulimit <limit>	Set CPU usage limit for a VM.	qm set 100 --cpulimit 2000
qm set <VMID> --disable-legacy-io	Disable legacy I/O for better performance.	qm set 100 --disable-legacy-io
qm set <VMID> --xend 1	Enable Xen Domain options for VM management.	qm set 100 --xend 1
qm set <VMID> --protection 1	Enable protection features for a VM.	qm set 100 --protection 1
qm set <VMID> --ipconfig0 <options>	Set custom network configurations for a VM.	qm set 100 --ipconfig0 ip=dhcp

Command	Description	Example
qm set <VMID> --vga serial0	Use serial console for VM output.	qm set 100 --vga serial0
qm status <VMID> --verbose	Get verbose status information about a VM.	qm status 100 --verbose
qm set <VMID> --serial0 socket	Enable serial console access via socket.	qm set 100 --serial0 socket