VM Management (AHV)

- VM Basics & Power Control
- VM Create & Modify
- Hosts & Bulk Actions
- Inventory Queries

VM Basics & Power Control

Overview

List all VMs

```
acli vm.list
```

Show detailed info for a VM

```
acli vm.get <vm_name>
```

Power Control

Power on a VM

```
acli vm.on <vm_name>
```

Power off a VM (hard)

```
acli vm.off <vm_name>
```

Gracefully shut down a VM (via guest OS tools)

```
acli vm.shutdown <vm_name>
```

Live-migrate a VM to another host

```
acli vm.migrate <vm_name> host=<host_uuid>
```

VM Create & Modify

Create & Modify

Create a new VM

```
acli vm.create <vm_name> memory=<GB> num_vcpus=<n>
```

Clone a VM

```
acli vm.clone <vm_name> new_names=<new_name>
```

Add a disk to a VM

```
acli vm.disk_create <vm_name> container=<container> create_size=<size>
```

Add a NIC to a VM

```
acli vm.nic_create <vm_name> network=<network_name>
```

Change vCPU count (VM may need to be off)

```
acli vm.update_cpu <vm_name> num_vcpus=<n>
```

Delete a VM

```
acli vm.delete <vm_name>
```

Hosts & Bulk Actions

Hosts (acli view)

List AHV hosts from acli's perspective

```
acli host.list
```

Bulk-Aktionen

Alle laufenden VMs auf dem Cluster gracefully herunterfahren (z. B. vor Wartung)

```
for vm_name in `acli vm.list power_state=on | awk '{print $1}'`; do acli vm.shutdown $vm_name; done
```

Inventory Queries

Inventory-Abfragen

Alle VMs mit gemounteter CD/DVD auflisten

```
for vm_name in `acli vm.list | cut -d " " -f 1`; do if [ -n "`acli vm.get $vm_name | grep -A1 cdrom | grep container`" ] ; then echo $vm_name ; fi ; done
```

Alle VMs mit Affinity-Regel auflisten, inkl. der zugeordneten Hosts

```
for vm_name in `acli vm.list | cut -d " " -f 1`; do if [ -n "`acli vm.get $vm_name | grep affinity`" ] ; then echo $vm_name ; acli vm.get $vm_name | grep host_uuids ; fi ; done
```