

# Intro

XCP-ng is a high performance enterprise level virtualization platform with a rich ecosystem.

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# About XCP-NG

XCP-ng is a high performance enterprise level virtualization platform with a rich ecosystem.

Originally based on [XenServer \(opens new window\)](#)(now [Citrix Hypervisor \(opens new window\)](#)), it's the result of massive cooperation between individuals and companies, to deliver a product without limits. No restrictions on features and every bit available on GitHub!

Visit the main website to learn more: <https://xcp-ng.org>(opens new window)



## #Overview

TIP

Those videos are made independently by *Lawrence Systems / PC Pickup*, thanks for bringing quality content like this! [YouTube channel](#)(opens new window)

Here is some content explaining XCP-ng in detail:

[https://www.youtube.com/embed/hh1QADop\\_IY](https://www.youtube.com/embed/hh1QADop_IY)

About the project itself, please see the [project page](#).

## #XCP-ng comparing to other products

### #vs VMware

<https://www.youtube.com/embed/wrLue-ENMJc>

## #vs Proxmox

<https://www.youtube.com/embed/5linFgGAsRs>

## #vs Xen vs XenServer vs KVM vs Proxmox

<https://www.youtube.com/embed/yulfCYmliX8>

TIP

No flamewar! There are no miracle solutions, but only solutions adapted to your usage. We truly respect all other virtualization platforms!

# Useful commands in the XCP-ng Command Line Interface (CLI)

## XCP-NG Useful Commands

Here are some useful commands in the XCP-ng Command Line Interface (CLI) that can help you manage and interact with your virtualization environment:

### 1. Listing VMs and Hosts:

- List all VMs:

```
xe vm-list
```

List all hosts:

```
xe host-list
```

### 2. VM Operations:

- Start a VM:

```
xe vm-start vm=<VM UUID>
```

- Shut down a VM:

```
xe vm-shutdown vm=<VM UUID>
```

- Reboot a VM:

```
xe vm-reboot vm=<VM UUID>
```

- Suspend a VM:

```
xe vm-suspend vm=<VM UUID>
```

- Reset VM Powerstate

```
xe vm-reset-powerstate uuid=***** --force
```

### 3. Host Operations:

- Reboot the host:

```
xe host-reboot host=<Host UUID>
```

- Shutdown the host:

```
xe host-shutdown host=<Host UUID>
```

- Put the host into maintenance mode:

```
xe host-disable host=<Host UUID>
```

## 4. Snapshot Management:

- Take a snapshot of a VM:

```
xe vm-snapshot vm=<VM UUID> new-name-label=<Snapshot Name>
```

- Revert a VM to a snapshot:

```
xe vm-revert-to-snapshot snapshot=<Snapshot UUID>
```

- List snapshots of a VM:

```
xe snapshot-list vm=<VM UUID>
```

## 5. Storage Operations:

- List SRs (Storage Repositories):

```
xe sr-list
```

- Scan for new SRs:

```
xe sr-scan
```

## 6. Networking:

- List network interfaces on a host:

```
xe pif-list host=<Host UUID>
```

- List VM's VIFs (Virtual Network Interfaces):

```
xe vif-list vm=<VM UUID>
```

## 7. Resource Pool Operations:

List resource pools:

```
xe pool-list
```

- Create a new resource pool:

```
xe pool-create name-label=<Pool Name>
```

## 8. Performance Monitoring:

- Display VM performance statistics:

```
xe vm-param-list uuid=<VM UUID> | grep guest-metrics
```

## 9. Logs and Diagnostics:

- Display host logs:

```
less /var/log/xensource.log
```

- Display VM logs:

```
less /var/log/xensource/vm-logs/<VM UUID>.log
```

These are just a few examples of the commands you can use to manage your XCP-ng environment. Be sure to refer to the official XCP-ng documentation for more details and command options specific to your version and setup. Always exercise caution when using CLI commands, especially in production environments.

