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## OpenVZ Virtual Machine (VPS) Management

Posted by [Vivek Gite](#) <[vivek@nixcraft.com](mailto:vivek@nixcraft.com)>

This entry is part 5 of 5 in the series [RHEL / CentOS OpenVZ Virtualization](#) <sup>[1]</sup>

[RHEL / CentOS OpenVZ Virtualization](#) <sup>[1]</sup>

- [How To Setup OpenVZ under RHEL / CentOS Linux](#) <sup>[2]</sup>
- [CentOS Linux Install OpenVZ Virtualization Software](#) <sup>[3]</sup>
- [How To Create OpenVZ Virtual Machines \(VPS\)](#) <sup>[4]</sup>
- [OpenVZ Iptables: Allow Traffic To Pass Via venet0 To All VPS](#) <sup>[5]</sup>
- OpenVZ Virtual Machine (VPS) Management

Now, my VPS is up and running. How do I manage my hardware node and VPS? How do I see a list of all running VPSes? How do I see memory usage and other stuff?

This FAQ covers various containers utilities which may be used to solve many problems and tune overall hardware as per your setup.



[7]



[6]

## How Do I List All Running VPSs?

The command `vzlist` is used for listing containers and their parameters. The `-a` option list all containers:

```
# vzlist -a
```

Outputs:

CTID	NPROC	STATUS	IP_ADDR	HOSTNAME
10	12	running	123.xx.yyy.zz	vps.nixcraft.in

The `-o` option can display only parameters specified by names, for e.g. just display hostname, disk and memory info:

```
# vzlist -o ctid,hostname,kmemsize,kmemsize.l,diskspace
```

See `vzlist` man page for more information.

## How Do I Calculate The Container's Resources Usage?

The `vzcalc` utility displays the share of the host system resources a particular container is using. If the container is running, the current usage is displayed. High utilization values (>100%) mean the system is overloaded (or the container has an invalid configuration).

```
# vzcalc -v 10
```

Sample Outputs:

Resource	Current(%)	Promised(%)	Max(%)
Low Mem	0.30	5.23	5.23
Total RAM	0.43	n/a	n/a
Mem + Swap	0.21	2.95	n/a
Alloc. Mem	0.34	3.69	7.13
Num. Proc	0.04	n/a	0.73
-----			
Memory	0.43	5.23	7.13

## How Do I Shows Information About The CPU Power and Utilization?

Use vzcpucheck command:

```
# vzcpucheck -v
```

Outputs:

```
VEID  CPUUNITS
-----
0    1000
10   1000
Current CPU utilization: 2000
Power of the node: 299281
```

### Further readings:

1. Read man pages - vzctl, vzcpucheck, vzcalc, and vzlist
2. [The official OpenVZ](#) <sup>[8]</sup> wiki.
3. [The official CentOS](#) <sup>[9]</sup> Linux project.

### Summary:

In this series, you learned how to work with OpenVZ virtualization under CentOS / RHEL Linux environment. OpenVZ has a completely different approach to virtualization, it almost works like [FreeBSD jails](#) <sup>[10]</sup> or Solaris zones. I highly recommend the official OpenVZ wiki for further details.

Series Navigation

[«OpenVZ Iptables: Allow Traffic To Pass Via venet0 To All VPS](#) <sup>[5]</sup>

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[6] Image: <http://www.cyberciti.biz/faq/category/centos/>

[7] Image: <http://www.cyberciti.biz/faq/category/redhat-and-friends/>

[8] The official OpenVZ: [http://wiki.openvz.org/Main\\_Page](http://wiki.openvz.org/Main_Page)

[9] The official CentOS: <http://centos.org/>

[10] FreeBSD jails: <http://www.cyberciti.biz/faq/howto-setup-freebsd-jail-with-ezjail/>