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How To Create OpenVZ Virtual Machines (VPS)

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This entry is part 3 of 5 in the series [RHEL / CentOS OpenVZ Virtualization](#) ^[1]

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- [How To Setup OpenVZ under RHEL / CentOS Linux](#) ^[2]
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How do I create OpenVZ virtual machine (VPS) to run CentOS or Debian as VPS?

OpenVZ comes with a template for each VPS or virtual machine. OpenVZ provides templates for all leading Linux distributions. You need to download those templates in order to create a VPS. Visit this page to [grab templates](#) ^[7] for vps.



[6]

Download Ubuntu Linux VPS

Type the following commands to download precreated Ubuntu Linux template:



[8]

```
# cd /vz/template/cache
# wget http://download.openvz.org/template/precreated/ubuntu-9.04-x86_64.tar.gz
```

Create VPS

Now you've download the template for your virtual machine. You can just start a VPS based on the template you have just downloaded, by typing the following commands:

```
# vzctl create 10 --ostemplate ubuntu-9.04-x86_64
vzctl set 10 --onboot yes --save
#### Set IP for VPS ####
vzctl set 10 --ipadd 192.168.1.5 --save
#### Set Nameservers IP for VPS ####
vzctl set 10 --nameserver 192.168.1.111 --save
vzctl set 10 --nameserver 192.168.1.111 --save
#### Set Hostname IP for VPS ####
vzctl set 10 --hostname vps.nixcraft.in --save
#### Set Disk quota for VPS (10G min [soft] and 11G max hard limit) ####
vzctl set 10 --diskspace 10G:11G --save
#### Okat let start it ####
vzctl start 10
#### Set root user password for VPS ####
vzctl exec 10 passwd
```

vzctl is used to create and set various vps properties such as memory, disk usage and much more. Where,

- create 10 : Your VPS ID.
- --ostemplate ubuntu-9.04-x86_64 : VPS template.
- --config vps.ubuntu: Save configuration.
- set 10 : Set various option for VPS ID # 10.

- **--onboot yes** : Make sure VPS boots automatically after a reboot.
- **--save** : Save changes to config file.

Common OpenVZ Admin Tasks

vzctl act as a master tool for various tasks:

How Do I Set VPS Name to vps.cyberciti.biz ?

```
# vzctl set 10 --hostname vps.cyberciti.biz --save
```

How Do I Set VPS IP Address?

```
# vzctl set 10 --ipadd 74.86.48.99 --save
```

How Do I Set VPS DNS Name Servers?

```
# vzctl set 10 --nameserver 10.0.1.11 --save
```

How Do I Set Disk Quota?

```
# vzctl set 10 --diskspace SoftLimitG:HardLimitG --save  
# vzctl set 10 --diskspace 10G:12G --save
```

How Do I Stop / Start / Restart VPS Servers?

```
# vzctl start 10  
# vzctl restart 10  
# vzctl stop 10
```

How Do I Run a Command For VPS?

You can run command as follows

```
# vzctl exec 10 w  
# vzctl exec 10 df  
# vzctl exec 10 date  
# vzctl exec 10 ps aux
```

How Do I Login Into VPS Server (container)?

Type the following command

```
# vzctl enter 10
```

To exit, simply type:

```
# exit
```

You can remotely login to your VPS using a ssh client itself or [using putty](#) ^[9]:

```
$ ssh user@your-vps.example.com
```

How Do I Destroy VPS?

Type the following command to delete VPS:

```
# vzctl destroy 10
```

Another Example: Creating a CentOS Linux VPS

Download CentOS 64 bit template:

```
# cd /vz/template/cache
# wget http://download.openvz.org/template/precreated/centos-5-x86_64.tar.gz
```

Create a VPS and set various limits (see vzctl man page):

```
# vzctl create 11 --ostemplate centos-5-x86_64
# vzctl set 11 --quotauidlimit 150 --numproc 400:400 \
--kmemsize 16384000:18022400 --privvmpages 262144:292912 \
--hostname=forums.nixcraft.com --diskspace 2000000:2000000 \
--shmpages 16384:16384 --ipadd 75.126.168.152 \
--nameserver 10.0.1.11 --nameserver 10.0.1.12 --save
# vzctl set 11 --onboot yes --save
```

Set the password for vps root user:

```
# vzctl set 11 --userpasswd root:pass
```

Start VPS:

```
# vzctl start 11
```

Enter into VPS:

```
# vzctl enter 11
```

Now you can install additional software and configure your vps:

```
[vps #] yum update
[vps #] yum install httpd
```

Series Navigation

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

[7] grab templates: <http://download.openvz.org/template/precreated/>

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

[9] using putty: <http://www.cyberciti.biz/faq/access-linux-from-windows-xp-system/>

