

Container Mangement (VPS)

- Creating New Container

Every container has it's unique id. Id number 0 is already used by H/w node so you can not create container with id number 0.

ID number 0 to 100 are already reserved by OpenVZ system so we need to you use id number begin with 101 for createing container.

Before creating new container on H/W node we need to confirmed that contianer id should be unique & not in use.

To check container id use the following command.

```
[root@EL01 ~]# vzlist -a 1011  
Container is not found
```

we get " container not found " means contianer id 101 is available.

- Chosing OS Template

Before creating new contianter we have to decide os template for the container. Might be serveral os templates already installed on h/w node.

Use the following command to find out available OS templete on the h/w node.

```
[root@EL01 ~]# ls /vz/template/cache/  
centos-5-x86.tar.gz centos-6-x86_64.tar.gz ubuntu-11.04-x86.tar.gz  
ubuntu-12.04-x86_64.tar.gz
```

- Creating Container

After choosing container id & OS template we can install container. The /vz/private is directory on h/w node containing container id's. The /vz/private directory containaining actual files for the given container. We can enter into any specific container using /vz/private/CTID

```
[root@EL01 ~]# cd /vz/private/101
```

To create new container use following commands.

```
[root@EL01 ~]# vzctl create 101 --ostemplate centos-5-x86 --config basic
```

```
[root@EL01 ~]# vzctl create 101
```

- Configuring Container

Setting Startup Parameters

To set parameter on boot for container use following command line. When we start H/W node container will automatically start on boot

```
[root@EL01 ~]# vzctl set 101 --onboot yes --save
```

- To check & restart SSH services

To check SSH service on the container is running or not. Here exec allow us to execute command.

```
[root@EL01 ~]#vzctl exec 101 service sshd start
```

```
[root@EL01 ~]#vzctl exec 101 service sshd status
```

- Setting root password for container

Generally newly created container is locked. It is necessary to set root password for container to connect via SSH.

```
[root@EL01 ~]#vzctl set 101 --userpasswd root:test
```

- Setting Network Parameters

To set hostname :-

To set hostname for container.

```
[root@EL01 ~]#vzctl set 101 --hostname server101.example.com -save
```

To set ipaddress :-

To set ipaddress for container.

```
[root@EL01 ~]#vzctl set 101 --ipadd 109.203.105.174 -save
```

To set nameserver :-

To set nameserver for container.

```
[root@EL01 ~]#vzctl set 101 --nameserver 192.168.90.254 --save
```

- Managing Container

To disable container :-

To disabled container from h/w node.

```
[root@EL01 ~]#vzctl set 101 --disabled yes -save
```

To suspend containr from h/w node:-

```
[root@EL01 ~]#vzctl chkpnt 101
```

To start container :-

```
[root@EL01 ~]#vzctl start 101
```

To stop container :-

```
[root@EL01 ~]#vzctl stop 101
```

To restart container :-

```
[root@EL01 ~]#vzctl restart 101
```

To restore container :-

```
[root@EL01 ~]#vzctl restore 101
```

To check status of container :-

```
[root@EL01 ~]#vzctl status 101
```

CTID 101 exist mounted running

Another way to test status of container on /proc/vz/info. This file contains information of all running container on H/W node.

- Listing Container

To list all container on h/w node :-

This command used to list all container with it's status

```
[root@EL01 ~]#vzlist -a
```

To check specific container id :-

```
[root@EL01 ~]#vzlist 101
```

To check customized information about owner of container, container id, purpose etc :-

```
[root@EL01 ~]#vzlist -o description 101
```

- Migrating Contianer

Migrating container from one h/w node to another h/w node need OpenVZ already installed on nodes. We can migrate container in both running & stopped state of the container.

Following examples shows that migration of container 101 form current node to another node test.vps.com

```
[root@EL01 ~]#vzmigrate test.vps.com 101
```

Online migration process have zero downtime & we can migrate container without zero effect on end user of container. This kind of online migration time on both h/w node should be same.

Following example showoing online parameter is passed for migration for container id 101 to another h/w node named as test.vps.com.

```
[root@EL01 ~]#vzmigrate --online test.vps.com 101
```

- Destroying container

We can delete the container from H/W node by using following command lines:-

```
[root@EL01 ~]#vzctl stop 101
```

```
[root@EL01 ~]#vzctl destroy 101
```

```
[root@EL01 ~]#cat /proc/vz/veinfo
```

- Backup of Container

Following are the steps for backup of container on Virtuozoo server

```
[root@virtuozzo01 ~] # vzlist
```

```
101 9 running 12.34.234.142 vz201.domain.com
```

```
[root@virtuozzo01 ~] # ping virtuozzo00.softlayer.local ... Check connectivity
```

```
[root@virtuozzo00 ~]# vzabackup virtuozzo01.softlayer.local -e 101
```

```
[root@virtuozzo00 ~]# vzabackup virtuozzo01.softlayer.local
```

```
[root@virtuozzo00 vz]# vzarestore --list --full
```

```
[root@virtuozzo00 vz]# vzarestore --list --full
```

Show existing backups...

CTID: 100

Title: migrateme

Type: full

BackupID: ab8743f4-d436-3a44-b35d-090f2bd2ea35/20081023173802

Description: This is our initial full backup of migrateme on virtuozzo00.

Parent environment: virtuozzo00.softlayer.local

Size: 97.78 Mb

Creation date: 2008-10-23T123802-005

CTID: 101

Title: VZTest01.softlayer.local

Type: full

BackupID: f440f67b-76e7-684b-9f1b-f64f755803f7/20081029153257

Description:

Parent environment: virtuoizzo01.softlayer.local

Size: 98.22 Mb

Creation date: 2008-10-29T103257-005

CTID: 201

Title: vz201.domain.com

Type: full

BackupID: 5daa073c-2dd0-0a41-8274-a1ba1ee0d693/20081029151602

Description:

Parent environment: virtuoizzo01.softlayer.local

Size: 3.80 Mb

Creation date: 2008-10-29T101602-005

– Usefull links related to virtuoizzo

http://www.parallels.com/fileadmin/parallels/documents/hosting-cloud-enablement/pvc/Production_Documents/VzLinuxReference_03132013.pdf

<http://download.swsoft.com/virtuoizzo/virtuoizzo4.0/docs/en/win/VzWindowsReference/4548.ht>

***** Best Luck *****