

Enable iptable NAT support on openvz vps

Written by sdx

Thursday, 10 January 2013 13:55 -

```
[root@vps]# iptables -t nat -nvL
```

```
iptables v1.3.5: can't initialize iptables table `nat': Table does not exist (do you need to insmod?)
```

Perhaps iptables or your kernel needs to be upgraded.

To Enable NAT:

Step1: Login to Node server and check vz configuration file to find whether iptable_nat is enabled or not

```
[root@server]# grep -i iptables /etc/vz/vz.conf
```

```
## IPv4 iptables kernel modules to be enabled in CTs by default
```

```
IPTABLES="ipt_REJECT ipt_tos ipt_TOS ipt_LOG ip_conntrack ipt_limit ipt_multiport  
iptables_filter iptable_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length ipt_state ip_nat_ftp  
ipt_owner ipt_REDIRECT"
```

```
## IPv4 iptables kernel modules to be loaded by init.d/vz script
```

```
IPTABLES_MODULES="$IPTABLES"
```

Step 2: Add iptable_nat to the configuration file.

```
[root@server]# vi /etc/vz/vz.conf
```

insert "iptables_nat" on to the iptables modules.

```
## IPv4 iptables kernel modules to be enabled in CTs by default
```

```
IPTABLES="ipt_REJECT ipt_tos ipt_TOS ipt_LOG ip_conntrack ipt_limit ipt_multiport  
iptables_filter iptable_mangle ipt_TCPMSS ipt_tcpmss ipt_ttl ipt_length ipt_state iptable_nat  
ip_nat_ftp ipt_owner ipt_REDIRECT"
```

Step 3: Check NAT is loaded or not,

```
[root@server]# lsmod | grep nat
```

```
[root@vps11 4980]# lsmod | grep nat
```

```
nf_nat_ftp 3523 0
```

```
nf_conntrack_ftp 12961 1 nf_nat_ftp
```

```
iptables_nat 6270 0
```

```
nf_nat 23116 5
```

```
ipt_MASQUERADE,vzrst,ipt_REDIRECT,nf_nat_ftp,iptable_nat
```

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```
nf_conntrack_ipv4 9914 3 iptable_nat,nf_nat
ip_tables 18119 3 iptable_nat,iptable_mangle,iptable_filter
nf_conntrack 80373 8
vzrst,nf_nat_ftp,nf_conntrack_ftp,iptable_nat,nf_nat,nf_conntrack_ipv4,nf_conntrack_ipv6,xt_state
```

```
[root@vps47 ~]# lsmod|grep ipt_MASQUERADE
ipt_MASQUERADE 35456 1
ip_nat 53392 5
ipt_MASQUERADE,vzrst,ipt_REDIRECT,ip_nat_ftp,iptable_nat
x_tables 52616 19
ipt_MASQUERADE,xt_tcpudp,ipt_owner,ipt_REDIRECT,xt_conntrack,xt_state,xt_length,ipt_ttl,xt_tcpmss,ipt_TCPMSS,xt_multiport,xt_limit,ipt_LOG,ipt_TOS,ipt_tos,ipt_REJECT,iptable_nat,ip_tables,ip6_tables
```

Step 4: Now save the paraments for the VPS.

```
[root@server ~]# vzctl set [VEID] --iptables ipt_REJECT --iptables ipt_tos --iptables ipt_TOS
--iptables ipt_LOG --iptables ip_conntrack --iptables ipt_limit --iptables ipt_multiport --iptables
iptables_filter --iptables iptable_mangle --iptables ipt_TCPMSS --iptables ipt_tcpmss --iptables
ipt_ttl --iptables ipt_length --iptables ipt_state --iptables iptable_nat --iptables ip_nat_ftp --save
```

NOTE: VEID is VPS ID, replace it with the correct one.

Step 5: Restart VPS

```
[root@server ~]# vzctl restart VEID
```

Step 6: Enter into the VPS

```
[root@server ~]# vzctl enter VEID
```

Step 7: Check for NAT

```
[root@vps ~]# iptables -t nat -nvL
Chain PREROUTING (policy ACCEPT 2 packets, 88 bytes)
pkts bytes target prot opt in out source destination
```

```
Chain POSTROUTING (policy ACCEPT 1 packets, 72 bytes)
pkts bytes target prot opt in out source destination
```

```
Chain OUTPUT (policy ACCEPT 1 packets, 72 bytes)
```

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pkts bytes targetÂ Â Â Â prot opt inÂ Â Â Â outÂ Â Â Â sourceÂ Â Â Â Â Â Â Â Â Â Â Â Â Â destination

Test whether it works or not

1. RunÂ **iptables -t nat -A POSTROUTING -j SNAT --to-source YOURVPSIP**
2. Run **iptables-save**