

Starting iSCSI on Startup with Linux Systems

After you reach the point where everything is logged in (you are able to type `iscsiadm -m session` and get output), following is the generic syntax:

```
iscsiadm -m node -T <targetname> -p <ip:port> --op update -n  
node.conn[0].startup -v automatic
```

The parameters between < and > are substitutions.

The syntax for persistent binding devices discovered on an internal connection under Ubuntu would look like this:

```
iscsiadm -m node -p 172.16.16.1 --op update -n node.conn[0].startup -v  
automatic
```

Here's a more complete breakout, with examples from another system with two volumes (vol1-test and vol2-test), each with two connection paths, to log in to:

```
root@xxx:/etc/iscsi# iscsiadm -m node -l
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-  
test.600176c30c272e438f96ea2d48669f4a, portal: 10.4.15.164,3260]
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-  
test.600176c30c272e438f96ea2d48669f4a, portal: 10.3.15.102,3260]
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol2-  
test.600176c34e91735e80bcbba748669f4a, portal: 10.4.15.164,3260]
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol2-  
test.600176c34e91735e80bcbba748669f4a, portal: 10.3.15.102,3260]
```

The following is used for persistent binding to just the first volume, by target name:

```
# iscsiadm -m node -T iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-test.600176c30c272e438f96ea2d48669f4a --op update -n node.conn[0].startup -v automatic
```

```
root@xxx:/etc/iscsi# /etc/init.d/open-iscsi restart
```

```
* Disconnecting iSCSI targets                               Logout session  
[sid: 1, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-test.600176c30c272e438f96ea2d48669f4a, portal: 10.4.15.164,3260]
```

```
Logout session [sid: 2, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-test.600176c30c272e438f96ea2d48669f4a, portal: 10.3.15.102,3260]
```

```
Logout session [sid: 3, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol2-test.600176c34e91735e80bcbba748669f4a, portal: 10.4.15.164,3260]
```

```
Logout session [sid: 4, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol2-test.600176c34e91735e80bcbba748669f4a, portal: 10.3.15.102,3260]
```

```
[ OK ]
```

```
* Stopping iSCSI initiator service                          [ OK ]
```

```
* Starting iSCSI initiator service iscsid                   [ OK ]
```

```
* Setting up iSCSI targets
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-test.600176c30c272e438f96ea2d48669f4a, portal: 10.4.15.164,3260]
```

```
Login session [iface: default, target: iqn.2003-01.com.pivot3:raige.vol:34xen.defaultpool.vol1-test.600176c30c272e438f96ea2d48669f4a, portal: 10.3.15.102,3260]
```

```
[ OK ]
```

NOTE: This just pulls in that target (vol1-test). Further, we could add **by -p 10.3.15.164** in a second operation and pull in one other connection that the above did not add, for vol2-test on an IP basis (or, if this were the first operation, it would have added one connection to each volume). To turn *off* automatic binding for a given connection, you would use **-v manual** instead of **-v automatic**.

Also, none of this takes effect until the iSCSI daemon is restarted.