在RHEL7中，已经使用targetcli软件替换了scsi-target-utils，相对于scsi-target-utils软件，targetcli更加方便易用。具体如下：

1、创建逻辑卷:

|  |  |
| --- | --- |
| 1  2  3 | [root@server ~]# lvcreate -n vv01 -L +500G datavg  [root@server ~]# lvcreate -n vv02 -L +500G datavg  [root@server ~]# lvcreate -n vv03 -L +500G datavg |

2、安装targetcli软件并启动服务:

|  |  |
| --- | --- |
| 1  2  3  4 | [root@server ~]# *yum -y install targetcli*  [root@server ~]# *systemctl start target*  [root@server ~]# *systemctl enable target*  [root@server ~]# *systemctl status target* |

3、创建共享存储:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10 | [root@server ~]# *targetcli /backstores/block*  [root@server ~]# *targetcli*  /backstores/block> *create sharedisk01 /dev/datavg/vv01*  /backstores/block> *create sharedisk02 /dev/datavg/vv02*  /backstores/block> *create sharedisk03 /dev/datavg/vv03*  /backstores/block> *ls*  o- block ........................................................... [Storage Objects: 3]    o- sharedisk01 .................................................. [/dev/datavg/vv01 (500.0GiB) write-thru deactivated]    o- sharedisk02 ............................................................. [/dev/datavg/vv02 (500.0GiB) write-thru deactivated]    o- sharedisk03 ............................................................. [/dev/datavg/vv03 (500.0GiB) write-thru deactivated] |

4、创建IQN名称:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7 | /backstores/block> *cd /*  /> cd iscsi  /iscsi> *create iqn.2015-09.com.he:lun1*  Created target iqn.2015-09.com.he:lun1.  Created TPG 1.  Global pref auto\_add\_default\_portal=true  Created default portal listening on all IPs (0.0.0.0), port 3260. |

target服务默认监听系统中所有IP的3260端口。如果想使其监听某一接口ip的3260端口，则运行下面的命令：

|  |  |
| --- | --- |
| 1  2  3  4  5 | /iscsi> cd iqn.2015-09.com.he:lun1/tpg1  /iscsi/iqn.20....he:lun1/tpg1> portals/ delete 0.0.0.0 3260  /iscsi/iqn.20....he:lun1/tpg1> portals/ create 172.16.250.100  Using default IP port 3260  Created network portal 172.16.250.100:3260.  /iscsi/iqn.2015-09.com.he:lun1/tpg1> |

5、创建LUN映射:

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9 | /iscsi/iqn.2015-09.com.he:lun1/tpg1> luns/ create /backstores/block/sharedisk01  Created LUN 0.  Created LUN 0->0 mapping in node ACL iqn.1991-05.com.microsoft:win10  /iscsi/iqn.2015-09.com.he:lun1/tpg1> luns/ create /backstores/block/sharedisk02  Created LUN 1.  Created LUN 1->1 mapping in node ACL iqn.1991-05.com.microsoft:win10  /iscsi/iqn.2015-09.com.he:lun1/tpg1> luns/ create /backstores/block/sharedisk03  Created LUN 2.  Created LUN 2->2 mapping in node ACL iqn.1991-05.com.microsoft:win10 |

默认情况下，添加的lun是可读可写的，如果添加只读lun，则使用下面的命令：

|  |  |
| --- | --- |
| 1  2 | /> set global auto\_add\_mapped\_luns=false  Parameter auto\_add\_mapped\_luns is now 'false'. |

6、添加ACLs：

此ACL需要客户端的initiator name。

在Linux下，可以查看/etc/iscsi/initiatorname.iscsi文件获得initiator名称；

在Windows下，通过iSCSI 发起程序中的配置选项卡获得initiator名称；

在Solaris下，通过iscsiadm list initiator-node获得initiator名称。

默认的initiator名称可以随便更改。这里windows 10的initiator名称为：iqn.1991-05.com.microsoft:win10。

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14  15 | /iscsi/iqn.2015-09.com.he:lun1/tpg1> acls/ create iqn.1991-05.com.microsoft:win10  Created Node ACL for iqn.1991-05.com.microsoft:win10  /iscsi/iqn.2015-09.com.he:lun1/tpg1> ls  o- tpg1 .................................................................................................... [no-gen-acls, no-auth]    o- acls ............................................................................................................... [ACLs: 1]    | o- iqn.1991-05.com.microsoft:win10 ........................................................................... [Mapped LUNs: 3]    |   o- mapped\_lun0 ................................................................................ [lun0 block/sharedisk01 (rw)]    |   o- mapped\_lun1 ................................................................................ [lun1 block/sharedisk02 (rw)]    |   o- mapped\_lun2 ................................................................................ [lun2 block/sharedisk03 (rw)]    o- luns ............................................................................................................... [LUNs: 3]    | o- lun0 ................................................................................ [block/sharedisk01 (/dev/datavg/vv01)]    | o- lun1 ................................................................................ [block/sharedisk02 (/dev/datavg/vv02)]    | o- lun2 ................................................................................ [block/sharedisk03 (/dev/datavg/vv03)]    o- portals ......................................................................................................... [Portals: 1]      o- 0.0.0.0:3260 .......................................................................................................... [OK] |

7、保存配置并退出：

直接在targetcli中输入exit，系统默认会保存配置文件并退出。

|  |  |
| --- | --- |
| 1  2  3  4 | /iscsi/iqn.2015-09.com.he:lun1/tpg1> exit  Global pref auto\_save\_on\_exit=true  Last 10 configs saved in /etc/target/backup.  Configuration saved to /etc/target/saveconfig.json |

**参考文献：**

    1.<http://linux-iscsi.org/wiki/Targetcli>

     2.[docs.redhat.com](https://access.redhat.com/documentation/en-US/Red_Hat_Enterprise_Linux/7-Beta/html/Storage_Administration_Guide/ch25.html)