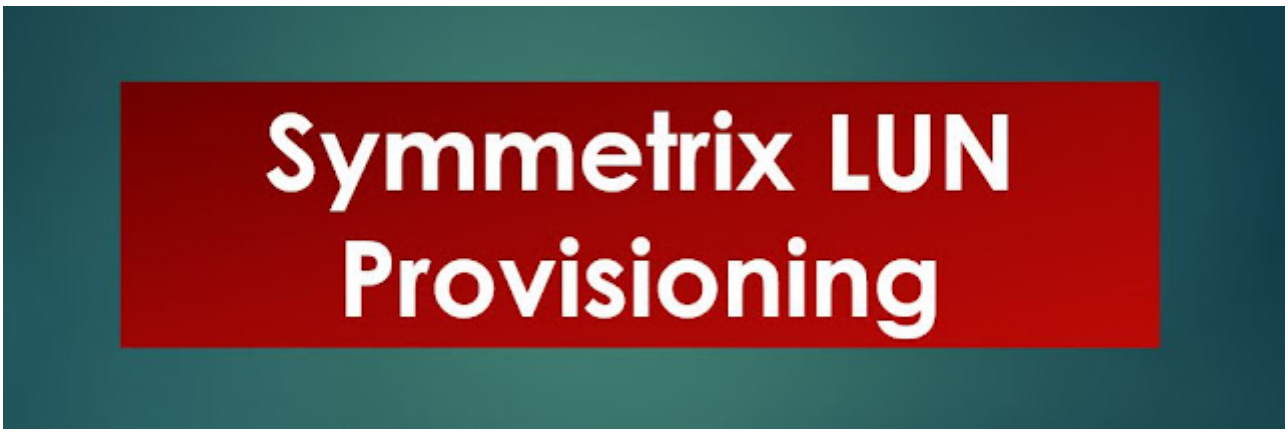
How to do LUN Provisioning in Symmetrix DMX | Procedure for Symmetrix - LUN Provisioning | DMX LUN Allocation Steps and procedure

LUN Provisioning

Today we will discuss about the LUN Provisioning in the DMX through CLI.



(https://2.bp.blogspot.com/-7r-jqf-Zm5A/Vx7hhyec_zI/AAAAAAAAB70/TZhPqGUsq98uVnO_4icW5my6CoW5mPoFQCLcB/s1600/emc.JPG)

Symmetrix LUN Provisioning

Before going for the LUN Provisioning, have understand the Symmetrix Architecture (http://www.sanadmin.net/2016/04/symmetrix-dmx-architecture.html)

Basically, LUN allocation will have 4 simple steps like below

1. Creating STD device
2. Meta device creation
3. Mapping
4. Masking

The step by step procedure for LUN Provisioning in Symmetrix DMX is as follows:

1. Open a text file to create STD devices, by using the command

```
Create dev count=7, size=10240, emulation=FBA, config=2-way-mir,
disk_group=2;
```

Execute the text file using symconfigure command with preview, prepare and commit options.

```
Symconfigure -sid XXX -f "name of the text file" -v -noprompt
preview

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
prepare

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
commit
```

Verify the newly created devices by using the command

```
Symdev -sid XXX list -noport
```

2. Open a text file to form metas and devices to the meta head.

```
Form meta from dev 27CA, config=striped,stripe_size=1920; add dev
27CB:27E4 to meata 27CA
```

Execute the text file using symconfigure command with preview, prepare and commit options.

```
Symconfigure -sid XXX -f "name of the text file" -v -noprompt
preview

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
prepare

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
commit
```

Verify the newly created meta devices by using the command

```
Symdev -sid XXX list -noport
```

Find the host connected directors and port details by using the command

```
Symcfg -sid XXX list -connections
```

Find the available addresses on that port by using the command

```
Symcfg -sid XXX list -address -available -dir 6 d -p 1
```

3. Open a text file with the following entry to map the device to the FA port

```
Map dev 27CA to dir 6d:1, lun=023;
```

Execute the text file using symconfigure command with preview, prepare and commit options.

```
Symconfigure -sid XXX -f "name of the text file" -v -noprompt
preview

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
prepare

Symconfigure -sid XXX -f "name of the text file" -v -noprompt
commit
```

4. Mask the devices to the host HBA

```
Symmaskdb -sid XXX -wwn 1000000c94d35cd -dir 6 d -p 1 add devs 27CA
-nop
```

Refresh the Sym configuration by using the command

```
Symmask -sid XXX -refresh
```

To know about the LUN Provisioning in EMC VNX and Clariion, refer the link below

http://www.sanadmin.net/2015/12/LUN-provisioning.html

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