



3PAR 两地三中心之 SLD 的配置方法

3PAR StoreSer

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组网及说明

部分局点要求数据的安全冗余，提出需要建立多个数据中心，实现数据的灾备及恢复的解决方案。

下面我们根据 3PAR 存储提供的SLD，两地三中心的远程数据复制灾备方案。

接下来我们会在SLD的基础上在线转换为 3DC 的数据复制灾备方案。

配置步骤

配置场景：

System A（主存储），System B（备存储），System C（第三数据中心存储）

要实现的是 System A <--> System B（RCFC Sync），System B <---> System C（RCIP Period），System A <--> System C（RCIP Period）

SLD Configuration

Background：

System A: 8440 IP 10.12.180.7

System B: 8400b IP 10.12.172.229

System C: 8400c IP 10.12.172.203

InformOS：3.3.1 MU5

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System A:

```
CF8840 cli% showrcopy -qw Remote Copy System Information Status: Started, Normal Target Information Name ID Type Status Policy QW-IP Q-Status Q-Status-Qual 8400b 4 FC ready mirror_config 10.12.173.148 Started Link Information Target Node Address Status Options 8400b 0:0:2 20020002AC016068 Up - 8400b 1:0:2 21020002AC016068 Up - receive 0:0:2 20020002AC016068 Up - receive 1:0:2 21020002AC016068 Up -
```

System B：

```
8400b cli% showrcopy -qw Remote Copy System Information Status: Started, Normal Target Information Name ID Type Status Policy QW-IP Q-Status Q-Status-Qual CF8840 24 FC ready mirror_config 10.12.173.148 Started Link Information Target Node Address Status Options CF8840 0:0:2 20020002AC01AF68 Up - CF8840 1:0:2 21020002AC01AF68 Up - receive 0:0:2 20020002AC01AF68 Up - receive 1:0:2 21020002AC01AF68 Up -
```

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System A RCFC with System B

System A: RCIP

```
CF8840 cli% showport -rcip N:S:P State ---HwAddr--- IPAddr Netmask Gateway MTU Rate Duplex AutoNeg 0:3:1 ready 480FCFA34B79 192.168.200.20 255.255.255.0 - 1500 100Mbps Full Yes 1:3:1 ready 480FCFA32431 192.168.200.21 255.255.255.0 - 1500 100Mbps Full Yes ----- 2 CF8840 cli%
```

System B: RCIP

```
8400b cli% showport -rcip N:S:P State ---HwAddr--- IPAddr Netmask Gateway MTU Rate Duplex AutoNeg 0:3:1 ready 9418824746A1 192.168.200.10 255.255.255.0 - 1500 1Gbps Full Yes 1:3:1 ready 3464A9EA08E9 192.168.200.11 255.255.255.0 - 1500 1Gbps Full Yes ----- 2 8400b cli%
```

System C: RCIP

```
ss8440c cli% showport -rcip N:S:P State ---HwAddr--- IPAddr Netmask Gateway MTU Rate Duplex AutoNeg 0:3:1 ready 3464A9EADAC1 192.168.200.30 255.255.255.0 - 1500 1Gbps Full Yes 1:3:1 ready 3464A9EABF69 192.168.200.31 255.255.255.0 - 1500 1Gbps Full No ----- 2 ss8440c cli%
```

Verify the inter-connectivity

```
CF8840 cli% controlport rcip ping 192.168.200.30 0:3:1 PING 192.168.200.30 (192.168.200.30) from 192.168.200.20 : 56(84) bytes of data. 64 bytes from 192.168.200.30: icmp_seq=1 ttl=64 time=0.521 ms --- 192.168.200.30 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.521/0.521/0.521/0.000 ms CF8840 cli% CF8840 cli% controlport rcip ping 192.168.200.30 1:3:1 PING 192.168.200.30 (192.168.200.30) from 192.168.200.21 : 56(84) bytes of data. 64 bytes from 192.168.200.30: icmp_seq=1 ttl=64 time=0.534 ms --- 192.168.200.30 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.534/0.534/0.534/0.000 ms CF8840 cli% CF8840 cli% controlport rcip ping 192.168.200.31 0:3:1 PING 192.168.200.31 (192.168.200.31) from 192.168.200.20 : 56(84) bytes of data. 64 bytes from 192.168.200.31: icmp_seq=1 ttl=64 time=0.522 ms --- 192.168.200.31 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.522/0.522/0.522/0.000 ms CF8840 cli% CF8840 cli% controlport rcip ping 192.168.200.31 1:3:1 PING 192.168.200.31 (192.168.200.31) from 192.168.200.21 : 56(84) bytes of data. 64 bytes from 192.168.200.31: icmp_seq=1 ttl=64 time=0.522 ms --- 192.168.200.31 ping statistics --- 1 packets transmitted, 1 received, 0% packet loss, time 0ms rtt min/avg/max/mdev = 0.522/0.522/0.522/0.000 ms CF8840 cli%
```

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8400b cli% controlport rcip ping 192.168.200.30 0:3:1 PING 192.168.200.30 (192.168.200.30) from 1
配置关键点
92.168.200.10 : 56(84) bytes of data. 64 bytes from 192.168.200.30: icmp_seq=1 ttl=64 time=0.340
有几个地方需要注意
3. System/Max/Min 0.340/0.340/0.340ms 需要同步的 Vlan id 必须一致 否则就配置失败
2.3 三地的卷类型不能不同 (也就是A200可以是ORW,192可以是TOVW; 56(84) bytes of data. 64 bytes fr
3m 在初始同步过程中 A到C状态一直显示 New 状态 一旦同步完成后 状态会自动置为 sync 状态
192.168.200.30: icmp_seq=1 ttl=64 time=0.267ms
s 8400b cli% controlport rcip ping 192.168.200.31 1:3:1 PING 192.168.200.31 (192.168.200.31) from
```