

### **Three-node clusters Active-Passive**

Step 1 Save current online service groups on each node.

```
# hastatus --sum |grep `hostname` |grep ONLINE|grep -v Shared
```

Step 2 Failover online service groups from to-be-patched-node to the other two nodes.

```
# hagr -switch <group> to <target server>
```

Step 3 Shutdown server to single-user mode

Step 4 Start EndPoint process

Step 5 Patch

Step 6 Restart node

Step 7 Failback service groups from other nodes.

```
# hagr -switch <group> to <target server>
```

### **Two-node clusters Active-Passive**

Step 1 Shutdown passive node to single-user

Step 2 Start EndPoint process

Step 3 Patch

Step 4 Restart passive node

Step 5 Failover service groups from active node to passive node.

```
# hagr -switch <group> to <target server>
```

Step 6 Shutdown active node to single-user

Step 7 Start EndPoint process

Step 8 Patch

Step 9 Restart node

### **Two-node clusters Active-Active**

Step 1 Offline service groups on to-be-patched-node

```
# hagr -offline <group> -sys <server>
```

Step 2 Shutdown node to single-user

Step 3 Start EndPoint process

Step 4 Patch

Step 5 Offline service groups on the other node

```
# hagr -offline <group> -sys <server>
```

Step 6 Restart the patched node

Step 7 Shutdown the other node to single-user mode

Step 8 Start EndPoint process

Step 9 Patch

Step 10 Restart node