# Solaris Cluster 3.x How to Remove a Resource Group (Doc ID 1005274.1)

## APPLIES TO:

Solaris Cluster - Version 3.0 to 3.3 U2 [Release 3.0 to 3.3]
Oracle Solaris on SPARC (64-bit)
Oracle Solaris on SPARC (32-bit)
Oracle Solaris on x86-64 (64-bit)

## GOAL

This document describes the steps necessary to remove a resource group from a Solaris Cluster 3.x configuration.

## SOLUTION

The steps necessary to remove a resource group, and all of its resources, from a Solaris Cluster 3.x configuration are listed below.

- Offline the resource group
- Disable the resources in the resource group
- Remove the resources from the resource group
- Remove the resource group
- Offline the associated device groups (optional)
- Remove the associated device groups (optional)
- Unregister the associated device groups (optional)

The commands for these steps are outlined below.

> Note: In Solaris Cluster 3.2 and higher you can use either the sc* commands or the newer cl* commands

Offline the resource group.

```
# scswitch -F -g <resource-group-name>
```

OR for 3.2 and higher

```
# clrg offline <resource-group-name>
```

Disable the resources in the resource group. This command will need to be executed once for each resource in the resource group.

```
# scswitch -n -j <resource-name>
```

OR for 3.2 and higher

```
# clrs disable <resource-name>
```

Remove the resources from the resource group. This command will need to be executed once for each resource in the resource group.

```
# scrgadm -r -j <resource-name>
```

OR for 3.2 and higher

```
# clrs delete <resource-name>
```

Remove the resource group.

```
# scrgadm -r -g <resource-group-name>
```

OR for 3.2 and higher

```
# clrg delete <resource-group-name>
```

The following steps are optional, but may be desirable.

Offline the device group(s) associated with the resources in the resource group.

```
# scswitch -F -D <device-group-name>
```

OR for 3.2 and higher

```
# cldg disable <device-group-name>
# cldg offline <device-group-name>
```

Use the necessary volume manager commands to remove, or delete, the device group(s) associated with the resources in the resource group.

If Veritas Volume Manager is being used as the volume manager, unregister the device group(s).

```
# scconf -r -D name=<device-group-name>
```

OR for 3.2 and higher

```
# cldg delete <device-group-name>
```

Confirm the results using the scstat command.

```
# scstat
```

OR for 3.2 and higher

```
# cluster status -t dg
```

Additional Information
As an example, suppose resource group 'oracle8i-rg', listed below, and all its resources are no longer being used and need to be removed, or deleted, from the configuration.

```
# scstat -g
```

```
 -- Resource Groups and Resources --

             Group Name          Resources
             ----------          ---------
Resources:   oracle8i-rg         oracle-ip-1 oracle8i-srvr-rs oracle8i-lsnr-rs oracle8i-hasplus

 -- Resource Groups --

             Group Name          Node Name           State
             ----------          ---------           -----
Group:       oracle8i-rg         host-1               Online
Group:       oracle8i-rg         host-2               Offline

 -- Resources --

             Resource Name       Node Name           State     Status Message
             -------------       ---------           -----     --------------
Resource:    oracle-ip-1         host-1               Online    Online  - LogicalHostname
online.
Resource:    oracle-ip-1         host-2               Offline   Offline - LogicalHostname
offline.

Resource:    oracle8i-srvr-rs    host-1               Online    Online
Resource:    oracle8i-srvr-rs    host-2               Offline   Offline

Resource:    oracle8i-lsnr-rs    host-1               Online    Online
Resource:    oracle8i-lsnr-rs    host-2               Offline   Offline

Resource:    oracle8i-hasplus    host-1               Online    Online
Resource:    oracle8i-hasplus    host-2               Offline   Offline
```

Additionally, suppose that Veritas Volume Manager disk group 'sc30_oracle_dg', listed below, is associated with the resources in resource group 'oracle8i-rg' and also
needs to be removed, or deleted, from the configuration.

```
 # scstat -D

 -- Device Group Servers --

                         Device Group        Primary             Secondary
                         ------------        -------             ---------
Device group servers:    sc30_oracle_dg      host-1               host-2

 -- Device Group Status --

                              Device Group        Status
                              ------------        ------
Device group status:          sc30_oracle_dg      Online
```

Following the steps outlined above should provide the desired result. If errors are encountered while following these instructions, please contact your Oracle Services representative for assistance.

Offline the resource group.

```
 # scswitch -F -g oracle8i-rg
```

Disable the resources in the resource group.

```
 # scswitch -n -j oracle-ip-1
 # scswitch -n -j oracle8i-srvr-rs
 # scswitch -n -j oracle8i-lsnr-rs
 # scswitch -n -j oracle8i-hasplus
```

Remove the resources from the resource group.

```
# scrgadm -r -j oracle-ip-1
# scrgadm -r -j oracle8i-srvr-rs
# scrgadm -r -j oracle8i-lsnr-rs
# scrgadm -r -j oracle8i-hasplus
```

Remove the resource group.

```
# scrgadm -r -g oracle8i-rg
```

Check whether disk group 'sc30_oracle_dg' is imported.

```
# vxdg list
```

If disk group 'sc30_oracle_dg' is still imported, offline the device group. This also deports the disk group.

```
# scswitch -F -D sc30_oracle_dg
```

Use the necessary volume manager commands to remove, or delete, the device group. This may involve importing the disk group again and deleting the volumes, plexes and subdisks;
or this may involve reinitializing the disk drives in the disk group to erase the disk group configuration information from the private regions of the disk drives.

Because Veritas Volume Manager is being used as the volume manager in this example, unregister the device group. For SVM metasets this step is not needed.

```
# scconf -r -D name=sc30_oracle_dg
```

Confirm the results using the scstat command.