Increase the Domain Volume Size Post-Provisioning

You can increase the domain volume size defined during provisioning of an instance. You cannot decrease the domain volume size.

The steps to increase the domain volume size include:

- Update the **Domain Volume Size (GB)** value using the Edit Stack wizard in the Oracle Cloud Infrastructure Console.
- Run the `resizeDomainVolume.sh` script to resize the mounted domain volume.

To increase the domain volume size:

1. Go to the Stack Details page of the instance for which you want to increase the domain volume size.
2. On the Stack Details page, click **Edit Stack**.
3. In the Edit Stack wizard, click **Next** to go to **Configure Variables** and select the In the Edit Stack wizard, increase the **Domain Volume Size (GB)** value as required.
4. Click **Next** to navigate to the Review page, then click **Save Changes**.
5. On the Stack Details page, click **Terraform Actions** and select **Plan**. In the Plan dialog, click **Plan**.
6. When the Terraform Plan job completes successfully, click **Terraform Actions** and select **Apply**. In the Apply dialog, click **Apply**.
7. Use the `ssh` command to connect to the Administration Server VM (as the `opc` user):
   `ssh -i private_key opc@Admin_VM_Public_IP`
8. Navigate to the directory containing automation scripts:
   `cd /opt/scripts/runbooks`
9. Run the script to resize the mounted domain volume as the `opc` user:
   `./resizeDomainVolume.sh`
10. Confirm that the domain volume size is increased:
    `df -h`

Update the JVM Heap Size Parameter Values for Managed Servers

For improved performance, you may need to increase the JVM heap size for all Managed Servers in a cluster.

Note:

After changing the JVM heap size, whenever there is a scale out operation, newly added nodes have default JVM heap size parameters. To update the newly added nodes with the new JVM heap size parameter values, you must follow these steps to rerun the automation script.

To update the JVM heap size parameters:

1. Use the ssh command to connect to the Administration Server VM (as the opc user):
   ssh -i *private_key* opc@*Admin_VM_Public_IP*
2. Change to the oracle user:
   sudo su - oracle
3. Navigate to the directory containing automation scripts:
   cd /opt/scripts/runbooks
4. Run the script to update the JVM heap size parameters and respond to the prompts for WebLogic Server administration password, Min JVM Heap Size, and Max JVM Heap Size:
   ./updateJVMHeapSizeParameters.sh

   Example settings:

   Min JVM Heap Size (MB): 1024
   Max JVM Heap Size (MB): 4096
5. Restart the Managed Servers in the cluster for the updates JVM parameter values to take effect.

The JVM parameters are updated in the Managed Server startup parameters, which can be reviewed in the WebLogic Server Admininstration Console on the Server Start tab in the Arguments field.

Perform a JNDI Lookup of JMS Resources Deployed on the Administration Server

For a Java client to perform a JNDI lookup of JMS resources deployed on the Administration Server, an SSH tunnel must be established between the client and the Administration Server that has a public IP address.

To perform a JNDI lookup of JMS resources:

Note:

An SSH tunnel *cannot* be established between a client and a host that does not have a public IP address. This prevents a Java client from performing a JNDI lookup of JMS resources deployed on the servers.

1. Create an SSH tunnel to the Administration Server:

   ssh -v -i opc_rsa -L 7001:*AdminHostIP*:7001 opc@*AdminHostIP* -N

   where *AdminHostIP* is the IP address of the Administration Server.
2. Create an SSH tunnel to the Managed Server.

   ssh -v -i opc_rsa -L 8001:*MS1IP*:8001 opc@*MS1HOSTNAME* -N

   where *MS1IP* is the IP address of the Managed Server and *MS1HOSTNAME* is the host name of the Managed Server.

Unmount and Mount File Storage Service

You can use File Storage Service (FSS) as a shared file system while provisioning the Oracle SOA Suite on Marketplace instance created using the Oracle Autonomous Transaction Processing (ATP) database. The FSS is mounted in the same path as that of the DBFS mount, which is /u01/soacs/dbfs/share.

Execute the following commands, if you choose to configure the file storage in the provisioning UI.

Unmount FSS

Run the following command as the opc user on the Oracle SOA Suite on Marketplace Virtual Machine (VM).

```
$ sudo umount /u01/soacs/dbfs/share
```

Mount FSS

1. Verify if the status of the mount directory, /u01/soacs/dbfs/share, is empty.

   ```
   $ cd /u01/soacs/dbfs/share
   $ ls -ltr
   ```

   The output should look similar to:

   ```
   total 0
   drwxrwxr-x. 2 oracle oracle  6 Jun  5 08:15 .
   drwxrwxr-x. 3 oracle oracle 19 Jun  5 08:15 ..
   ```

2. Run the following command as the opc user on the Oracle SOA Suite on Marketplace Virtual Machine (VM).

   ```
   $ sudo /opt/scripts/fssMount.sh
   ```