

SGWSADM additional exercise

In this exercise you will investigate the nodetool on storage nodes and create a problem by stopping Cassandra on one node.

1. Open your putty from the desktop.

In the Host Name bar enter the following ip address:

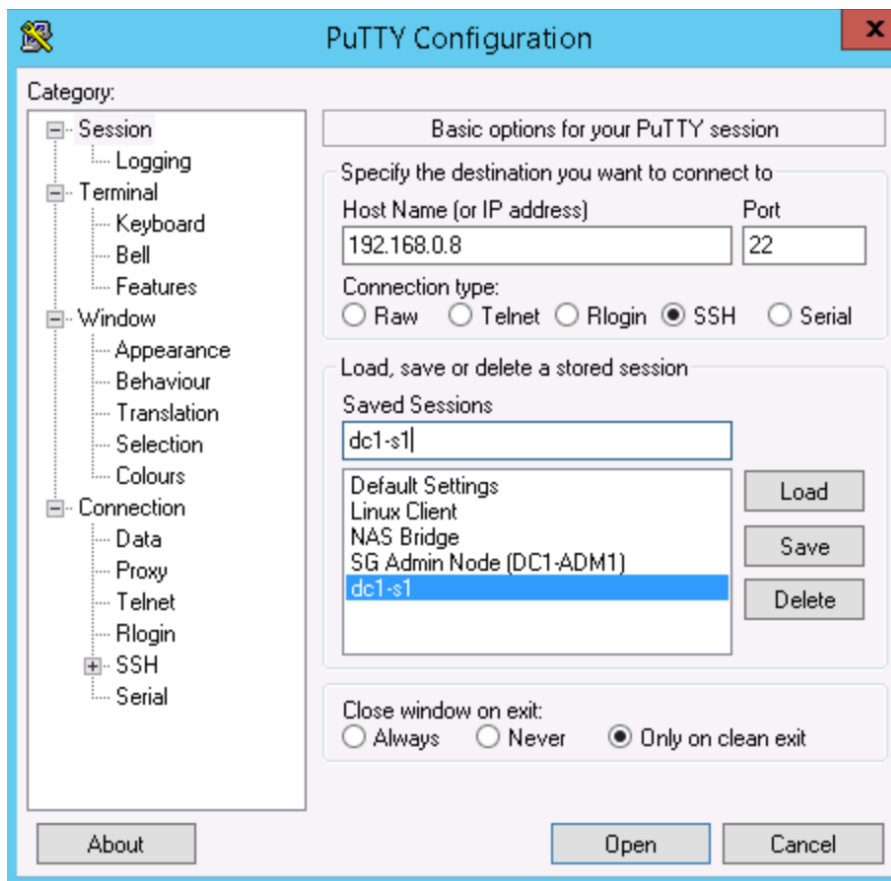
192.168.0.6

(this is dc1-s1)

In Saved Sessions enter the name of the node "dc1-s1"

Click **Save**.

Click **Open**.



2. At the login prompt type the username "admin", and the password "bycast".

3. Make sure you become root by running "sudo bash"

If asked for a password, type "bycast"

4. Run "nodetool status"

```

admin@DC1-S1:~$ nodetool status
Datacenter: group10
=====
Status=Up/Down
|/ State=Normal/Leaving/Joining/Moving
-- Address      Load          Tokens      Owns (effective)  Host ID                               Rack
UN 192.168.0.8   1.73 MiB     256         100.0%           8a785046-921a-46b7-9862-863acbf1d92a  unknown
UN 192.168.0.6   1.98 MiB     256         100.0%           1c3c32c5-5769-4fbc-aa33-e7775596af53  unknown
UN 192.168.0.7   1.89 MiB     256         100.0%           07c5fec9-1b14-4566-8cef-02d35f646cbc  unknown
Datacenter: group20
=====
Status=Up/Down
|/ State=Normal/Leaving/Joining/Moving
-- Address      Load          Tokens      Owns (effective)  Host ID                               Rack
UN 192.168.0.16  1.7 MiB       256         100.0%           b8cce0d2-5070-47a7-b1f1-b37e3752c6c5  unknown
UN 192.168.0.17  1.45 MiB     256         100.0%           a0313f40-3a63-42ff-80c9-50c717c7fdb3  unknown
UN 192.168.0.18  1.48 MiB     256         100.0%           12f39c4b-2706-43c7-9789-a208f805cb96  unknown
Datacenter: group30
=====
Status=Up/Down
|/ State=Normal/Leaving/Joining/Moving
-- Address      Load          Tokens      Owns (effective)  Host ID                               Rack
UN 192.168.0.26  1.73 MiB     256         100.0%           1403b3d0-918c-4aff-8ed4-a75f53e39c6c  unknown
UN 192.168.0.27  1.47 MiB     256         100.0%           98abdb2b-b47d-44bc-8739-42ace7d1adb4  unknown
UN 192.168.0.28  1.46 MiB     256         100.0%           16c02950-4830-4424-8f4b-f3f45d03d8a6  unknown

```

The output shows all storage nodes, the load and other information.

5. To check whether Cassandra is running:

```

root@DC1-S1:/home/admin # service cassandra status
cassandra running for 1d, 8h, 33m, 12s
root@DC1-S1:/home/admin # █

```

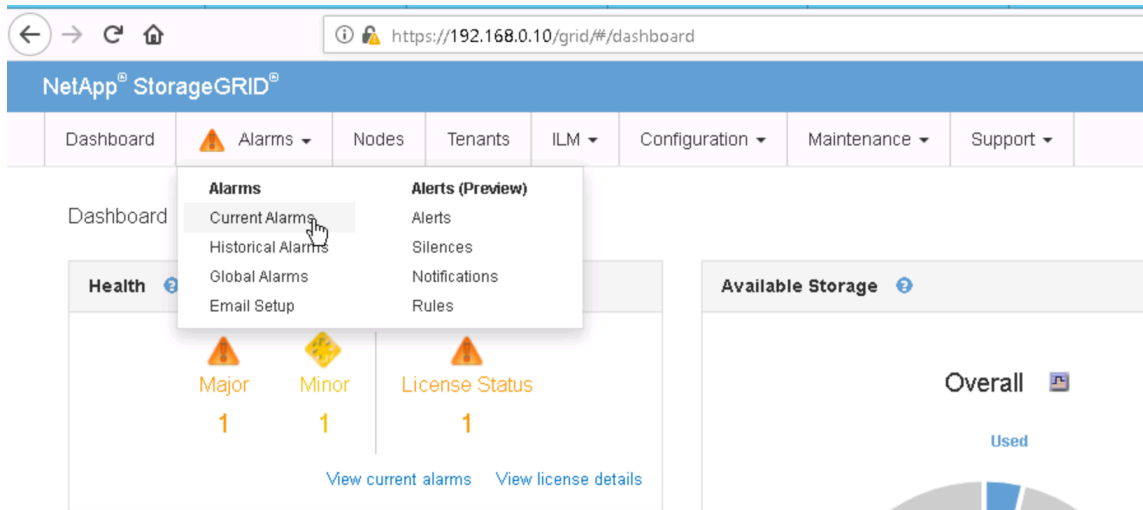
6. Stop Cassandra:

```

root@DC1-S1:/home/admin # service cassandra stop
stopping cassandra ... done
root@DC1-S1:/home/admin # █

```

7. In the administration dashboard go to alarms -> current alarms



8. In the current alarms window, see that Casandra data store is down and that the daemon is not running.

Current Alarms

Last Refreshed: 2020-12-01 13:38:36 CET

Show Acknowledged Alarms (1 - 2 of 2)

Severity	Attribute	Service	Description	Alarm Time	Trigger Value	Current Value
Major	CASA (Data Store Status)	Data Center 1/DC1-S1/DDS	Data Store Down	2020-12-01 13:35:09 CET	Down	Down
Minor	SVST (Status - Cassandra)	Data Center 1/DC1-S1/SSM	Not Running	2020-12-01 13:36:42 CET	Not Running	Not Running

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9. On the linux command line, start Cassandra again and view the status (ignore the error).

```
root@DC1-S1:/home/admin # service cassandra start
starting cassandra ... /usr/local/lib/site_ruby/bycast/runit.rb:665:in `': No
  from /usr/local/lib/site_ruby/bycast/runit.rb:665:in `block in start_se
  from /usr/local/lib/site_ruby/bycast/runit.rb:660:in `loop'
  from /usr/local/lib/site_ruby/bycast/runit.rb:660:in `start_service'
  from /usr/local/lib/site_ruby/bycast/runit.rb:783:in `initd'
  from /etc/init.d/cassandra:23:in `<main>'
root@DC1-S1:/home/admin # service cassandra status
cassandra running for 3s
root@DC1-S1:/home/admin # █
```

In the administration tool, refresh the alarm page, and see that the alarms are gone.

Historical Alarms

Select an attribute and then either a Quick Query or a Custom Query.

Attribute:

Quick Query:

Custom Query:



Start Date: YYYY/MM/DD HH:MM:SS
End Date: YYYY/MM/DD HH:MM:SS

10 In the historical alarm, check "last 5 minutes" and see that Casandra is fine again.

Historical Alarms

2020-12-01 13:41:31 CET to 2020-12-01 13:46:31 CET

(1 - 2 of 2)

Severity	Attribute	Service	Description	Alarm Time	Trigger Value	Acknowledge Time
 Normal	CASA (Data Store Status)	Data Center 1/DC1-S1/DDS/Data Store	Alarm Cleared	2020-12-01 13:43:24 CET	Up	
 Normal	SVST (Status - Cassandra)	Data Center 1/DC1-S1/SSM /Services	Alarm Cleared	2020-12-01 13:43:08 CET	Running	

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