1. Preparation

1.1. Check the Power Plugs
Please check that all power plugs are connected to the back of server.

1.2. Check the NICs

1.2.1. Production Network
Please check that all Network Interface Cards are connected as required. This means the two dual port adapters mounted in slots number 9 and 16 should be connected. These 4 1GB ports are bonded by the OS driver. For your reference please see the numbers on top of the PCI slot. The below image does not contain NICs in these slots.

1.2.2. Management Network
Please check that at least one of both management adapters (MGB1 Management and MGB2 Management) is connected to the network. With this connection you can monitor your hardware health.

1.3. External Storage (JBOD)
Please connect the external storage to the 2\textsuperscript{nd} RAID controller. The RAID controller is mounted in PCI slot 12. Please connect its port “A” to port “0” of the JBOD.

Please connect two power cables to the external storage as well.
2. Start the Server

2.1. Power on the server

Pressing the SYSTEM POWER Switch at the front of the server turns on the server. Turn on the server by using the following procedure.

**Important**
- Do not power on the server before amber SYSTEM POWER LED is unlit.
- Wait for at least 30 seconds before pressing the SYSTEM POWER switch on the server after turning off the server.

1. Turn on the peripheral devices and display unit.
   **Note**
   *If the power cord is connected to power control system such as an Uninterruptible Power Supply (UPS), make sure that the power control system is turned on.*
2. Remove Front Bezel, if mounted.
3. Press the SYSTEM POWER switch at the front of the server.
   SYSTEM POWER LED is lit green and after a while, POST appears on the display.

**Important**
Do not connect or disconnect USB device while POST is running. In addition, do not connect or disconnect remote media.

Wait for the server to finish the boot operation. Once it has completed you will be presented the following login screen.
Please login to the OS.
2.2. Logon to the server
Depending on your installed OS you will either be presented a graphical interface to login or a CLI login prompt. In any case initial login credentials are:

- Username : root
- Password : hana

2.3. Start the SAP HANA Instance

1. Change the current directory.

    # cd /usr/sap/hostctrl/exe

2. Start the SAP HANA Instance.
   Check the status “OK”.
   - Instance No : “HANA>SAP HANA> Instance No.” on parameter sheet.

    # ./sapcontrol –nr <instance no> -function Start
    16.12.2015 XX:XX:XX
    Start
    OK

3. Check the SAP HANA Instance Status.
   Check that all status are “GREEN”.
   Note HANA startup takes some time after issuing the sapcontrol command.
   - Instance No : “HANA>SAP HANA> Instance No.” from the parameter sheet.

    # ./sapcontrol –nr <instance no> - function GetProcessList

```
getProcessList
OK
name, description, dispstatus, textstatus, starttime, elapsedtime, pid
hdbdaemon, HDB Daemon, GREEN, Running, 2012 08 21 15:14:51, 0:01:37, 24960
hdbnameserver, HDB Nameserver, GREEN, Running, 2012 08 21 15:14:52, 0:01:36, 24993
hdbpreprocessor, HDB Preprocessor, GREEN, Running, 2012 08 21 15:14:57, 0:01:31, 25032
hdbindexserver, HDB Indexserver, GREEN, Running, 2012 08 21 15:14:59, 0:01:29, 25099
hdbstatisticserver, HDB Statisticsserver, GREEN, Running, 2012 08 21 15:15:00, 0:01:28, 25105
hdbxengine, HDB XEngine, GREEN, Running, 2012 08 21 15:15:01, 0:01:27, 25134
sapwebdisp_hdb, SAP WebDispatcher, GREEN, Running, 2012 08 21 15:15:22, 0:00:06, 25623
```
3. Stop the Server

3.1. Stop the SAP HANA Instance

1. Change the current directory.

```
# cd /usr/sap/hostctrl/exe
```

2. Stop the SAP HANA Instance.
   Check the status “OK”.
   • Instance No : “HANA>SAP HANA> Instance No.” on parameter sheet.

```
# ./sapcontrol –nr <instance no> -function Stop
16.12.2015 XX:XX:XX
Stop
OK
```

3. Check the SAP HANA Instance Status.
   Check the status of “hdbdaemon”, it must be “GRAY, Stopped”.
   Note HANA shutdown takes some time after issuing the sapcontrol command.
   • Instance No : “HANA>SAP HANA> Instance No.” on parameter sheet.

```
# ./sapcontrol –nr <instance no> -function GetProcessList
```

```
mechana01:/usr/sap/hostctrl/exe # ./sapcontrol -nr 00 -function GetProcessList
GetProcessList
OK
name, description, dispstatus, textstatus, starttime, elapsedtime, pid
hdbdaemon, HDB Daemon, GRAY, Stopped, , , 22893
```

3.2. Power off the server

1. Power off the server. Use the following command on terminal.

```
# shutdown –h now
```

4. Additional information

   For additional information about the hardware please review the “User’s guide” for A2040c available at [www.58support.nec.co.jp/global/download](http://www.58support.nec.co.jp/global/download)