

# Dell PowerEdge R630 Server Configuration Cloud Execution Environment

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## INSTALLATION INSTRUCTIONS

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# 1 Introduction

This document describes configuration procedures for the Dell PowerEdge R630 server.

## 1.1 Prerequisites

This section describes the prerequisites that must be fulfilled before configuring the Dell PowerEdge R630 server.

### 1.1.1 Hardware and Software Required

This document only supports hardware configuration installed according to *Dell PowerEdge R630 HW Installation*.

**Note:** Firmware version of iDRAC must be 2.21.21.21.

### 1.1.2 Conditions

This document assumes that the Dell PowerEdge R630 server has not been configured before or has been restored to factory default.

### 1.1.3 Tools

The following tools are required to connect to iDRAC:

- ☐ Screen with VGA port and cable
- ☐ USB Keyboard
- ☐ USB Mouse, optional

Use the sockets shown in Figure 1:

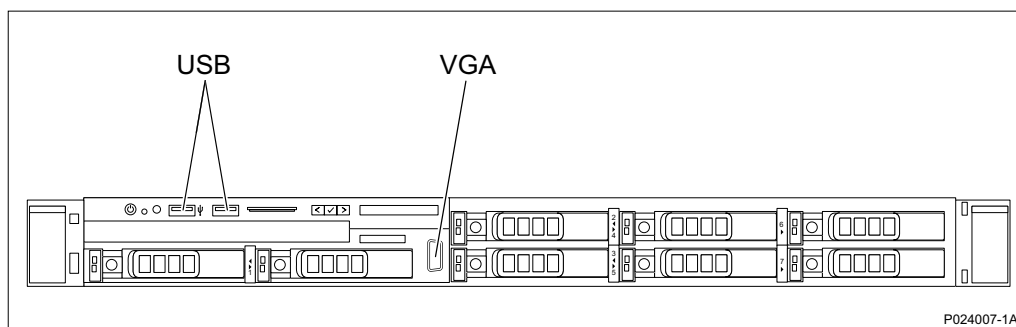


Figure 1 Front Sockets for USB and VGA Connection



## 2 Configuration of Dell PowerEdge R630 Server

### 2.1 Configure Dell iDRAC

The Dell configuration covered in this section is a manual procedure.

This section describes how to set iDRAC IP addresses, username, and password.

**Note:** The IP addresses used in this section are examples. For the actual values, refer to the local version of *IP and VLAN Plan* updated with customer and site-specific values.

All servers must be configured one by one as follows:

1. Connect the screen, keyboard, and optionally, mouse to the server, as shown in Figure 1.

2. Reboot the connected server by pressing **Ctrl+Alt+Del**.

**Note:** The reboot process takes about 5 minutes to complete.

3. When the Dell logo and the text `F2=System Setup` is shown, press **F2**.

`System Setup` is shown.

4. Select `iDRAC settings`.

5. Select `Network`.

6. Scroll down until `IPV4 SETTINGS` is shown.

7. Enter `<static_iDRAC_IP_address>` in the `Static IP Address` field, for example: `10.0.3.<sequential_number>`, with 20 as sequential number in the first server, 21 in the second, and so on.

8. Enter `<static_gateway_IP_address>` in the `Static Gateway` field, for example: `10.0.3.1`.

9. For the `Static SubnetMask` field, use a suitable number, as described in the local version of *IP and VLAN Plan*.

**Note:** A Single Server deployment requires an additional static IP address for the gateway interface.

10. Exit network configuration by pressing **Esc**.

11. Scroll down and select `User Configuration`.



12. Enter **admin** in the User Name field.
13. Enter **<password>** in the Change Password field, and press **Enter**.  
**Note:** For information on strong passwords, refer to the section about strong password conditions in the document *System Hardening Guideline*.
14. Re-enter **<password>** when requested to Re-enter password, and select OK.
15. Exit from User Configuration:
  - a. Press **Esc**.
  - b. Press **Esc** again.
16. Select Yes when warned about Saving Changes.
17. Select OK when the Success dialog is shown.
18. Press **Esc**.
19. Select Yes when asked: Are you sure you want to exit and reboot?  
**Note:** The reboot process takes about 5 minutes to complete.
20. If no further procedures are to be performed, remove the cables connected in Step 1.

## 2.2 Configure Dell RAID Setup

The Dell configuration covered in this section is a manual procedure.

This section describes how to configure the RAID setup.

All servers must be configured one by one as follows:

1. Connect the screen, keyboard, and optionally, mouse to the server, as shown in Figure 1.
2. Reboot the connected server by using **Ctrl+Alt+Del**.  
**Note:** The reboot process takes about 5 minutes to complete.
3. Press **Ctrl+R** when the following text is shown:  

```
Press <Ctrl><R> to Run Configuration Utility
```
4. Remove the old disk configuration, if necessary, by using the following procedure:



Repeat the following steps for all existing Virtual Disks:

- a. Select VD Mgmt, if necessary.
- b. Press **F2**.
- c. Select Delete VD.
- d. Answer **Yes** to the question: Do you want to delete VD?

5. Create new disk configuration:

- a. Select No Configuration Present ! and press **F2**.
- b. Select Create New VD.
- c. Move to field RAID Level and press **Enter**.
- d. Select option RAID-1.

**Note:** This is the recommended setup. RAID-0 can also be configured if the storage capacity is not sufficient, but in this case local storage redundancy is disabled. For more information on insufficient storage capacity, refer to the **Storage Configuration** section of *Single Server System Dimensioning Guide, CEE R6* or of *Multi-Server System Dimensioning Guide, CEE R6*.

- e. Move to each of the physical disks and press **Enter** to add them.
- f. Select the VD Name field and enter **BOOT**.
- g. Click OK.
- h. Answer **OK** to the warning message It is recommended that all newly created logical drives be initialized unless you are attempting to recreate a previous configuration and recover data as initialization is a destructive process.
- i. Select the newly created **BOOT** disk and press **F2**.
- j. Select option Initialization followed by sub option Fast Initialization.
- k. Answer **YES** to the question Initialization will destroy data on the virtual disk. Are you sure you want to continue?
- l. Wait until 100% complete is reported.
- m. Press **ESC**.





n. Answer OK on the question Are you sure you want to exit?

o. Reboot the connected blade by using **Ctrl+Alt+Del**.

**Note:** The reboot process takes about 5 minutes to complete.

6. Remove the cables connected in Step 1.



## Reference List

- [1] *Dell web site* <http://www.dell.com/>