



Red Hat 7.5 Enterprise Linux Graphical Installation Guide

V1.0

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<u>Version</u>

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Purpose

This guide is to provide a simple step-by-step guidance for users to follow on how to install Red Hat Enterprise Linux on Advantech server.

Requirements

- a. Internet connection
- b. CD/DVD burner with blank CD/DVD medium or USB stick drive of minimum 4.8GB size for full installation media or minimum 450 MB for minimal boot media.

Before Installing Red Hat Enterprise Linux

a. Download Red Hat Enterprise Linux ISO Images from Official Red Hat software

<u>& Download Center</u>

- b. Create bootable CD/DVD or USB stick
 - 1. Please go to Making an Installation CD or DVD
 - 2. Please go to Making Installation USB Media

Procedures

- a. Boot from install media
 - 1. Put the Red Hat CD/DVD into your CD/DVD drive or insert the USB stick or other install media.
 - Power up the Advantech server and go to the BIOS by hitting the "DEL" or "F2" key.





3. In BIOS setup menu, move to the "Save&Exit" menu. You can select the DVD or USB stick in the "Boot Override" Menu. Boot Override will modify the boot order for a single boot process only and will automatically revert back to the original boot priority. After making these changes leave the Setup Menu via "Save&Exit".

Main Platform Hardware Server Mgmt Post & Bu	oot Security Save & Exit
Save Changes and Exit	▲ Exit system setup after
Discard Changes and Exit	saving the changes.
Save Changes and Reset	A CONTRACTOR OF A CONTRACTOR O
Discard Changes and Reset	
Save Options	
Save Changes	
Discard Changes	
Restore Defaults	
Save as User Defaults	
Restore User Defaults	++: Select Screen
	11: Select Item
Boot Override	Enter: Select
UEFI: Built-in EFI Shell	+/-: Change Opt.
sSATA P4: INTEL SSDSCKJW180H6	F1: General Help
UEFI: Linux File-Stor Gadget0414	F2: Previous Values
UEFI: Linux File-Stor Gadget0414, Partition 1	F3: Optimized Defaults
Red Hat Enterprise Linux (P4: INTEL SSDSCKJ	▼ F4: Save & Exit
	ESC: Exit



4. After a few seconds, you should see messages like those shown below on the

screen.



- 5. Select Install Red Hat Enterprise Linux in the boot menu and press Enter.
- b. Start to install **Red Hat Enterprise Linux** on Advantech server.
 - After Anaconda, the Red Hat Enterprise Linux installer, started, select your language and region, and click Continue.

		🖽 us
WELCOME TO RED What language would you	HAT ENTERPRISE	LINUX 7.5.
English	English >	English (United States)
Afrikaans	Afrikaans	English (United Kingdom)
አማርኛ	Amharic	English (India)
العربية	Arabic	English (Australia)
অসমীয়া	Assamese	English (Canada)
Asturianu	Asturian	English (Denmark)
Беларуская	Belarusian	English (Ireland)
Былгарски	Bulnarian	English (New Zealand)
বাংলা	Bennali	English (Hong Kong SAR China)
Bosanski	Bosnjan	English (Philippines)
Català	Catalan	English (Singapore)
Čeština	Czech	English (South Africa)
Cumraen	Walch	English (Zambia)
Danck	Donich	English (Zimbabwe)
Deutsch	Germon	English (Botswana)
Deutsch	German	English (Antiqua & Barbuda)
Type here to search.	G	





2. The Installation Summary is the central screen to set configuration options.

- 3. Choose Date & Time
 - a. Set your region and the nearest city in your time zone.
 - b. Click **Done** to return to the **Installation Summary**.





4. Choose Keyboard Layout

- a. Use the + and buttons to add and remove keyboard layouts.
- b. If you enable multiple keyboard layouts, move your preferred layout to the top of the list using the

 button to set it as default.
- c. Click Done to return to the Installation Summary.

(ursn)	Test the layout configuration below:
	Layout switching not configured Options

- 5. Choose Installation Destination
 - a. Select the target disk. A check mark is displayed next to the selected

target. The selected disk is partitioned automatically.

b. Click **Done** to return to the **Installation Summary**.

	RED HAT ENTERPRISE LINUX 7.5 INSTALLATION
Device Selection	
Select the device(s) you'd like to install to. They will be left untouched until you click	on the main menu's "Begin Installation" button.
Local Standard Disks	
167.68 GiB	
ATA INTEL SSDSCKJW18	
sda / 1014.5 KiB free	
	Disks left unselected here will not be touched.
Specialized & Network Disks	
Add a disk	
	Disks left unselected here will not be touched.
Other Storage Options	
Partitioning	
Automatically configure partitioning. I will configure partitioning.	
I would like to make additional space available.	
Encryption	
Encrypt my data. You'll set a passphrase next.	
Full disk summary and boot loader	1 disk selected; 167.68 GiB capacity; 1014.5 KiB free Refresh



- 6. Choose Network and Hostname
 - a. Click the **Ethernet** sliding switch in the top right corner to enable the network configuration.
 - b. Optional, select the device and click **Configure** to update the network interface configuration.
 - c. Click Done to return to the Installation Summary.

NETWORK & HOST NAME	RED HAT ENTERPRISE LINUX 7.5 INSTALLATION
 Ethernet (enp136s0f0) Solarilare Communications SFC9220 10/406 Ethernet Controller (SFN8522-R2 f Solarilare Communications SFC9220 10/406 Ethernet Controller (SFN8522-R2 f Ethernet (enp3s0) Intel Corporation I210 Ggabit Network Connection Ethernet (enp4s0, unplugged) Intel Corporation I210 Gigabit Network Connection Ethernet (enp63s0f0, unplugged) Intel Corporation Ethernet Connection X722 for 10GbE SFP+ Ethernet (enp63s0f1, unplugged) Intel Corporation Ethernet Connection X722 for 10GbE SFP+ 	Configure.
Host name: localhost.localdomain Apply	Current host name: localhost

7. Choose Software Selection

- a. Select packages to install in your Red Hat operation system.
- b. Click Done to return to the Installation Summary.

If you are not sure what package should be installed, Red Hat recommends you to select the **Minimal Install** environment. **Minimal install** only installs a basic version of Red Hat Enterprise Linux with only a minimal amount of additional software.





8. On the Installation Summary screen, click Begin Installation.

	INSTALLATION SUMMARY		RED HAT ENTERPRISE LINUX 7.5 INSTALLATION		
reditat				ie	Helpi
	LOCALIZA	ATION			
	Θ	DATE & TIME Europe/Dublin timezone		KEYBOARD English (Irish)	
	á	LANGUAGE SUPPORT English (Ireland)			
	SOFTWAR	RE			
	0	INSTALLATION SOURCE	6	SOFTWARE SELECTION Minimal Install	
	SYSTEM				
	2	INSTALLATION DESTINATION Automatic partitioning selected	Q	KDUMP Kdump is enabled	
	÷	NETWORK & HOST NAME Wired (enp3s0) connected	4	SECURITY POLICY	
				Quit	Begin Installation
			V	Ve won't touch your disks until ye	ou click 'Begin Installation'







9. The installation starts and the **Configuration** screen is displayed.

During the installation

- a. Choose Root Password
 - i. Enter the password for the root user and confirm it.
 - ii. Click **Done** to return to the **Configuration** screen.

ROOT PASSWORD		RED HAT ENTERPRISE LINUX		RISE LINUX 7.5 INSTALLATION
Done			m ie	Help!
	The root account is used for admin	nistering the system. Enter a passwo	ord for the root user.	
	Root Password:	•••••		
			Strong	
	Confirm:	•••••		
A The password you have provided twice to confirm it.	contains non-ASCII characters. You r	nay not be able to switch between k	eyboard layouts when typ	ing it. You will have to press Done



- b. Choose User Creation
 - i. Enter the user's full name.
 - ii. Optionally, update the automatically generated user name.
 - iii. Set the password and confirm it.
 - iv. Optionally, check the Make this user administrator check box. This will add the user to the wheel group and allow this account to use sudo without any further configuration.
 - v. Click **Done** to return to the **Configuration** screen.

CREATE USER	RED HAT ENTERPRISE LINUX 7.5 INSTALLATION ie Help!
Full name	advantech
User name	advantech
k	Tip: Keep your user name shorter than 32 characters and do not use spaces. ☐ Make this user administrator ☑ Require a password to use this account
Password	••••••
Confirm password	Advanced
A The password you have provided contains non-ASCII i	characters. You may not be able to switch between keyboard layouts when typing it. You will have to press Done



- CONFIGURATION

 CED HIT ENTERPRISE LINUX 7.5 INSTALLATION

 USER SETTINGS

 CONFIGURATION

 CONFIGURATION

 USER SETTINGS

 Configuration

 </
- c. Wait until the installation completes and click Reboot.

10. First time log-in screen after the system reboot.

Red Hat Enterprise Linux Server 7.5 (Naipo) Kernel 3.18.8-862.e17.x86_64 on an x86_64
localhost login:

Note : After the installed system has been started. For details, please go to <u>Initial</u> <u>Setup</u> to get more information.

- If you installed the server using the Server with GUI base environment, the Initial Setup application is started automatically.
 - i. Accept the license agreement.
 - ii. Register the system.
- ✓ If you selected any other base environment during the installation
 - i. Log into the system as the root user.
 - ii. Register the system and automatically attach a subscription.

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