



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".

Save Changes and Exit Discard Changes and Exit Save Changes and Reset Discard Changes and Reset	 Exit system setup after saving the changes.
Save Options	
Save Changes	
Discard Changes	
Restore Defaults	
Save as User Defaults	
Restore User Defaults	++: Select Screen 14: Select Item
Boot Override	Enter: Select
UFFT: Built-in FFT 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
nea nat Enterprise Einan () 1. Intel esteamer.	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	HAT ENTERPRISE	LINUX 7.5.
What language would you	like to use during the instai	lation process?
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)
	Belarusian	English (Ireland)
Беларуская		English (New Zealand)
Български	Bulgarian	English (Nigeria)
বাংলা	Bengali	English (Hong Kong SAR China)
Bosanski	Bosnian	English (Philippines)
Català	Catalan	English (Singapore) English (South Africa)
Čeština	Czech	English (Zambia)
Cymraeg	Welsh	English (Zimbabwe)
Dansk	Danish	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.

iglish (Irish)	Test the layout configuration below:
	Layout switching not configure
	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 clic	k on the main menu's "Begin Installation" button.
Local Standard Disks	
167.68 GIB	
-0	
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 Intel Corporation I210 Ggabit Network Connection Ethernet (enp4s0, unplugged) Intel Corporation I210 Ggabit Network Connection Ethernet (enp63s0f0, unplugged) Intel Corporation Ethernet Connection X722 for 10GbE SFP+ Ethernet (enp63s0f1, unplugged) Intel Corporation Ethernet Connection X722 for 10GbE SFP+	OFF Disconnected Mardware Address 00:0F:53:58:55:E0 Speed 10000 Mb/s Subnet Mask 127:0.0.1
+ – 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.

🥮 redhat	INSTALLATION S	UMMARY	REI	D HAT ENTERPRISE LINUX 7	
- Teunor			<u></u>	ie	Help!
	LOCALIZA	TION			
	Θ	DATE & TIME Europe/Dublin timezone		KEYBOARD English (Irish)	
	á	LANGUAGE SUPPORT English (Ireland)			
	SOFTWAR	E			
	0	INSTALLATION SOURCE Local media	6	SOFTWARE SELECTION Minimal Install	
	SYSTEM				
	2	INSTALLATION DESTINATION Automatic partitioning selected	Q	KDUMP Kdump is enabled	
	÷	NETWORK & HOST NAME Wired (enp3s0) connected		SECURITY POLICY No profile selected	
				Quit	Begin Installation
			V	Ve won't touch your disks until you	ı 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.

Image: The root account is used for administering the system. Enter a password for the root user. Root Password To firm: Image:	ROOT PASSWORD			RED HAT ENTERPRISE	LINUX 7.5 INSTALLATION
Root Password:	Done) ie	Help!
Confirm:		The root account is used for ad	ministering the system. Enter a passwo	ord for the root user.	
Confirm:		Root Password:	•••••		
k				Strong	
		Confirm:	•••••		
			·		
		k			
The password you have provided contains non-ASCII characters. You may not be able to switch between keyboard layouts when typing it. You will have to press Done twice to confirm it.	The password you have pro	vided contains non-ASCII characters. Yo	u may not be able to switch between k	eyboard layouts when typing 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 Helpi
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
Pessword	••••••
Confirm password	Advanced
The password you have provided contains non-ASCI	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 (Neipo) Kernel 3.18.0-062.e17.x06_64 on an x06_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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