

DL380 Gen 10 Al Server

MHW-S380RA-AI



en Quick installation guide

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1 System overview

The DL380 Gen10 AI Server comes fully equipped with SUSE Linux Enterprise Server and allows for the usage of the Person identification feature in BVMS. To use the Server with BVMS, first you have to do the initial server configuration and installation of required NVIDIA drivers and tracking and recognition service packages.



Notice!

The operating system includes the latest security patches available at the time the software image was created. We recommend that you regularly install the latest security patches using the online update function.

2 Initial installation and configuration

This chapter describes the initial server configuration and the installation of NVIDIA drivers and tracking and recognition service (TRS) dependencies on the DL380 AI Server.

Prerequisites

- Before starting the configuration, make sure that the DL380 Gen 10 Al Server is installed according to the HPE instructions.
- To install the NVIDIA drivers and TRS packages, you need an internet connection.

Procedure

To perform the initial configuration and installation, you have to do following steps:

- 1. First start and initialization, page 5.
- 2. Loging in to the server, page 12.
- 3. Downloading and installing NVIDIA drivers and TRS software packages, page 12.
- 4. *Configuring host name, page 13.*
- 5. Enabling TRS, page 14.
- 6. *Restarting the server, page 14*

Note: For information on how to add the DL380 Gen 10 Al Server to BVMS (BVMS version 10.0 or later), see the BVMS Configuration manual. For detailed information, see section Person Identification Settings Page in the manual.

2.1 First start and initialization

When you start the server for the first time, the **YaST2** Installation Wizard is displayed. Use the respective functional keys to navigate through the Wizard, for example:

Кеу	Function
F1	Help
F8	Back
F9	Abort/Cancel
F10	Next/OK

To configure the server:

1. In the **Language and Keyboard Layout** dialog box, select the language and keyboard layout from the list. Then Press **F10** to continue.

YaST2 - firstboot 0 linux			
Language and Keuboard Lauout			
	Language		
	English (05)		
	Keyboard Layout		
	English (US)	+	
[Help]	[Back]	[Abort]	[Next]
F1 Help F8 Back F9 Abort F18 Next			
The back is not the fill hext			

2. In the **Welcome** dialog box, read the information. Then press **F10** to continue.

Welcome			
Welcome!			
There are a few more configuration. Click	steps to take before your system is Next to continue.	s ready to use. YaST will now guide y	ou through some basic
[Help]	[B ack]	[Abort]	[iext
F1 Help F8 Back F9 Abor	t F10 Next		

3. In the **License Agreement** dialog box, accept the SUSE Software License Agreement. Then press **F10** to continue.

License Agreement			
Language English (US)	•		
SUSE® Linux Enter SUSE products:	prise End User License Agreement for	the following	
SUSE Linux Entery SUSE Linux Entery SUSE Linux High f SUSE Linux Entery SUSE Linux Entery SUSE Linux Entery SUSE Linux Entery SUSE Manager Serv SUSE Manager Pros	rise Server 15 SP1 rise Server for SAP Applications 15 vailability Extension 15 SP1 rise HPC 15 SP1 rise Desktop 15 SP1 rise Untextation Extension 15 SP1 rise Live Patching 15 SP1 er 4 y 4	SP1	
SUSE Manager Reta PLEASE READ THIS DOWNLOADING OR OT YOU AGREE TO THE TERMS, YOU ARE MU AND YOU SHOULD N OBTAIN A REFUND. THAT HE OR SHE HK OF THAT ENTITY.	il Branch Server 4 AGREEMENT CAREFULLY. BY PURCHASING, NERMISE USING THE SOFTMARE (INCLUDIN TERMS OF THIS AGREEMENT. IF YOU DO T PERMITTED TO DOWNLOAD, INSTALL OR TIFY THE FARTY FROM WHICH YOU PURCHA AN INDIVIDUAL ACTING ON BEHALF OF S THE AUTHORITY TO ENTER INTO THIS A	INSTALLING, IG ITS COMPONENTS), NOT AGREE WITH THESE USE THE SOFTWARE ISED THE SOFTWARE TO AN ENTITY REPRESENTS GREEMENT ON BEHALF	
This End User Lic between You (an of The software proo for which You hav (physical or virt the "Software") if of the United Sta to the terms of if business require such local langue	ense Agreement ("Agreement") is a le mity or a person) and SUSE LLC ("Li ucts identified in the title of this e acquired licenses, any media or re ual) and accompanying documentatio s protected by the copyright laws an tes ("U.S.") and other countries and his Agreement. If the laws of Your contracts to be in the local languag ge version may be obtained from Lice	gal agreement censor"). Agreement productions m (collectively d treaties is subject principal place of principal place of per to be enforceable, msor upon written	
This EULA can be f /usr/share/license	ound in the directory s/product/base/		
<mark>[x] I Agree to the</mark> [Help]	License Terms. [Back]	[Abort]	[Next]

4. In the **Hostname and Domain Name** dialog box, enter host name and domain name. Then press **F10** to continue.

YaST2 - firstboot @ linux			
Hostname and Domain Name			
	Hostname and Domain Name		
	Hostname Linux-qcej		
	Set Hostname via DHCP yes: any	-	
[Help]	[Back]	[Abort]	[Next]
F1 Help F8 Back F9 Abort F10 Next			

5. In the **Network Settings** dialog box, configure network settings (IP address, DNS and Gateway). Then press **F10** to continue.

	IP Address De DHCP et	vice Note	
treme BCM5719 Gigabit Etherne treme BCM5719 Gigabit Etherne Gigabit Network Connection Gigabit Network Connection	t PCIe DHCP et t PCIe DHCP et DHCP et DHCP et DHCP et	h4 h1 h6 h3	
treme BCM5719 Gigabit Etherne treme BCM5719 Gigabit Etherne Gigabit Network Connection	t PCIe DHCP et t PCIe DHCP et DHCP et	h2 h8 h7	
B Gigabit Network Connection (Not connected)		
: 48:df:37:66:ed:39	P		
D : 0000:5d:00.1 Device Name: eth5 Started automatically at boot IP address assigned using DHC			
D : 0000:53:00.1 Device Name: eth5 Started automatically at boot IP address assigned using DHC			
D : 0000:53:00.1 Device Name: eth5 Started automatically at boot IP address assigned using DHC			

6. In the **Proxy Configuration** dialog box, edit the proxy settings. Then press **F10** to

cont	tinue.				
YaST2 Proxy	- firstboot @ linux				
	I imable Proxy Proxy Settings- HTTP Proxy URL http:// HTTPS Proxy URL http:// FTP Proxy URL http:// FTP Proxy URL http:// FUse the Same Proxy fo No Proxy Domains localhost, 127.0.0.1 Proxy Authentication— Proxy User Name	r All Protocols	Proxit Passuned		
[He]n]		[Back]	Têbr	net1	(Next.)
Fi Hel	p F8 Back F9 Abort F10 Ne	xt	LHDU	or cu	thext

7. In the **Clock and time Zone** dialog box, select region and time zone and set date and time. Then press **F10** to continue.

Hasiz - Firstbout @ Tinux	
Clock and Time Zone	
region	Time Zone
Africa	Alaska (Anchorage)
Argentina	Aleutian (Adak)
Asia	Arizona (Phoenix)
Atlantic	Boise
Australia	Central (Chicago)
Brazil	Fastern (Neu York)
Canada	Fact Indiana (Indiananolic)
Cantanal and South America	Hausii (Honolulu)
	Indiana (Mananga)
Ett:	Indiana (harenyu)
Lurope	Indiana (retersburg)
Global	Indiana Starke (Knox)
Indian Ucean	Indiana (Tell City)
Mexico	Indiana (Vevay)
Pacific	Indiana (Vincennes)
Russia	Indiana (Winamac)
USA	Juneau
	Kentucky (Louisville)
	Kentucky (Monticello)
	Menominee
	Michigan (Detroit)
	Mountain (Denver)
	Nome
	North Dakota (Center)
	North Dakota (New Salem)
	Pacific (Los Angeles)
	Puesta Rice
	Samoa (rago rago)
	Shiprock
	Virgin Islands (St Thomas)
	Yakutat
Date and Time	[x] Hardware Clock Set to UTC
2019-09-20 - 10:00:19	[Other Settings]
[Help] [Back]	[New
chuck)	
F1 Heln F8 Back F10 Next	

8. In the **NTP Configuration** dialog box, edit the NTP configuration settings. Then press **F10** to continue.

YaSTZ - firstboot @ linux			
NTP Configuration Start NTP Daemon (x) Only Hamwally () Synchronize without Daemon () Now and on Boot Configuration Source Dynamic +			
Synchronization Servers			
[Add] [Edit] [Delete] [Help]	[Back]	[Abort]	[H ext]

9. In the **Local User** dialog box, enter user name and password for the local user. Then press **F10** to continue.

YaST2 - firstboot @ linux			
Local User			
	(x) Create New User User's Full Name		
	Username		
	Password		
	Confirm Password		
	[]]]ee this massure	for sustem administrator	
	[] Automatic Login		
	() Skip User Creation		
[Help]	[Back]	[Abort]	[Next]
F1 Help, F8 Back, F9 Abort, F18 Next			

10. In the **Authentication for the System Administrator "root"** dialog box, enter a password for the root user and confirm this password. Then press **F10** to continue.

Note: If you forget the root password, you have to set your system to factory default. In that case all data will be lost.

[Help]	[Back]	[Abort]	[Next]
	Import Public SSH Key LOGICAL VOLUME (/dev/sda1) +[Ret LBrowse]	resh]	
	Test Keyboard Layout	_	
	Confirm Password		
	Password for root User		
	Do not forget what you enter here		
Authentication for the System Administ	rator "root"		

11. The Installation Completed dialog box is displayed. Press F10 to finish.

Please visit us at http://www.suse.com/.	

Now you can log in to the system.

Note: The following configuration steps can be executed via SSH connection.

2.2 Loging in to the server

Log in to the SUSE Linux Enterprise server with the local user name and password.



2.3 Downloading and installing NVIDIA drivers and TRS software packages

To download and install the NVIDIA drivers and TRS packages:

1. On the shell, type the following to refresh all repositories (enter root user password if required):

```
sudo zypper refresh
```

All repositories are being refreshed.

📌 192.168.178.141 - PuTTY -	\times
gk@GKAI01:~> sudo zypper refresh	
Repository 'SLE-Module-Basesystem15-SP1-Pool' is up to date.	
Repository 'SLE-Module-Basesystem15-SP1-Updates' is up to date.	
Repository 'BoschTRSRepo' is up to date.	
Repository 'SLE-Module-Containers15-SP1-Pool' is up to date.	
Repository 'SLE-Module-Containers15-SP1-Updates' is up to date.	
Repository 'SLE-Module-Desktop-Applications15-SP1-Pool' is up to date.	
Repository 'SLE-Module-Desktop-Applications15-SP1-Updates' is up to date.	
Repository 'NVidia-Repo' is up to date.	
Repository 'SLE-Product-SLES15-SP1-Pool' is up to date.	
Repository 'SLE-Product-SLES15-SP1-Updates' is up to date.	
Repository 'SLE-Module-Server-Applications15-SP1-Pool' is up to date.	
Repository 'SLE-Module-Server-Applications15-SP1-Updates' is up to date.	
All repositories have been refreshed.	
gk@GKAI01:~>	

2. After all repositories have been refreshed, type the following:

sudo zypper install trs

3. To continue, type y and press ENTER.

💣 192.168.178.141 - PuTTY –	-	\times
gk@GKAI01:~> sudo zypper install trs		
Refreshing service 'Basesystem_Module_15_SP1_x86_64'.		
Refreshing service 'Containers_Module_15_SP1_x86_64'.		
Refreshing service 'Desktop_Applications_Module_15_SP1_x86_64'.		
Refreshing service 'SUSE_Linux_Enterprise_Server_15_SP1_x86_64'.		
Refreshing service 'Server_Applications_Module_15_SP1_x86_64'.		
Loading repository data		
Reading installed packages		
Resolving package dependencies		
The following NEW package is going to be installed: trs		
The following package has no support information from its vendor: trs		
1 new package to install.		
Overall download size: 59.4 MiB. Already cached: 0 B. After the operation	1 ,	
additional 61.1 MiB will be used.		
Continue? [y/n/v/? shows all options] (y): y		

4. To install all packages, accept the two End User License Agreements (EULAs), which are displayed, by typing the following:

yes

The NVIDIA drivers and the TRS software packages are downloaded from the repository and installed.

2.4 Configuring host name

To configure host name:

- On the shell, type the following to find out the IP address: ip addr
- 2. Edit the following file:

/etc/trs/settings.json

To edit the file, we recommend to use the **vi** editor, which is already pre-installed. On the shell, type the following (enter root user password, if required):

```
sudo vi /etc/trs/settings.json
```

```
∰ 192.168.178.141-PuTTY
gk@GKAI01:~> sudo vi /etc/trs/settings.json
```

- 🗆 🗙

3. In the **'serviceHost'** field, edit the host name.

Usually, only the field 'serviceHost' needs to be edited.

If DNS is configured, it is recommended to use the FQDN. If this is not the case, the addressing takes place via IP.

Į	P 192.168.178.141 - PuTTY	-	\times
{			^
	"servicePort": 8443,		
	<u></u>		
	"serviceHost": "localhost",		
	"logging": {}		
}			

2.5 Enabling TRS

To enable TRS:

• On the shell, type the following (enter root user password, if required):

sudo systemctl enable trs



✓ During the first TRS start after restarting the server, a self-signed default server certificate with **serviceHostName** as common name is created once.

2.6 Restarting the server

To restart the server:

On the shell, type the following (enter root user password, if required):
 sudo reboot
 192.168.178.141 - PUTTY

gk@GKAI01:~> sudo reboot

✓ The restart of the server applies **udev** rules and starts TRS service automatically.

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