Oracle Linux 8.4 as guest os on SUSE Linux Enterprise Server 15 SP3 (x86-64) KVM



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Introduction

This document provides details for installing Oracle Linux as a guest os on SUSE Linux Enterprise Server 15 SP3 KVM. SUSE supports KVM full virtualization on AMD64/Intel 64 and Arm AArch64 hosts, and on IBM Z. Details are provided for Intel(x86-64) versions of both Oracle Linux and SUSE Linux Enterprise Server 15 SP3. If you encounter issues or have general questions, please post your query to suse-oracle@listx.novell.com.

Official Oracle product documentation is available at: http://docs.oracle.com.

Hardware Requirements

Requirement	Minimum
CPU	1-GHz CPU
Physical Memory	4 GB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	4 GB
Disk space for software files	4 GB

Software Requirements

SUSE

• SUSE Linux Enterprise Server 15 SP3 GM (x86-64) (http://download.suse.de/install)

Oracle

 Oracle Linux 8.4 (OracleLinux-R8-U4-x86 64-dvd.iso) (https://yum.oracle.com/oracle-linux-downloads.html)

Testing machine information

Dell Laptop Precision 5530 CPU: 6 * Intel(R) Core(TM) i7-8850H CPU @ 2.60GHz **RAM: 32 GB** NIC: 2 Local HDD: 1TB + 512GB OS: SUSE Linux Enterprise Server 15 SP3 GM (x86-64) - Kernel version: 5.3.18-57-default



Setup

1. Installing SUSE Linux Enterprise Server 15 SP3 and KVM

1-1. Install SUSE Linux Enterprise Server 15 SP3 on the testing machine. To do so, follow the instructions in the official SUSE Linux Enterprise Server documentation at: https://www.suse.com/documentation/.

				YaS	T2 — '	YaST2	2 - sw_	single @ Dell5530					:	×
<u>F</u> ile	<u>File Package Configuration Dependencies Options Extras H</u> elp													
Vi	ew *	Search	Installation S	Summary	Patte	er <u>n</u> s	Pack	age <u>C</u> lassification]					
		Pattern		*										
-		Base Te	chnologies		-	Pack	age		Summary	Installe	d (Available	e)	Size	*
	11	Minimal B	ase System			bran	ding-S	SLE	SLE Brand File	15-31.1	.3		1.6 KiB	
-		i i i i i i i i i i i i i i i i i i i	use system			ca-ce	ertifica	ates-mozilla	CA certificates f	or 2.44-9	.6.1		928.6 KiB	
		Tools and	scripts for Com	mon Cr		chro	ny		System Clock S	yn 3.2-9.1	8.1		442.4 KIB	
M	т¦т	Enhanced	Base System		R	cron	ie		Cron Daemon	151-6	12.2		248 5 KiB	
						grub	2		Bootloader with	s 2.04-2	0.4		24.3 MiB	
ш	=o	XEN Virtua	alization Host a	nd tools		kbd			Keyboard and F	on 2.0.4-1	4.38		4.2 MiB	
	10	KVM Virtu	alization Host a	and tools		open	issh		Secure Shell Cli	en 8.4p1-1	1.30			
		AnnArmon				patte	erns-b	ase-base	Minimal Base S	yst 202001	124-8.1		50 B	
		Арранно				patte	erns-d it	ase-minimat_base	PolicyKit Autho	riz 0.116-1	51		341 0 KiB	
	~>	32-Bit Rur	ntime Environm	ent	Ĭ	polki	it-defa	ult-privs	SUSE PolicyKit	de 13.2+20	0201209.9	6f7b21-1.27	173.8 KiB	
		Mobile				pulse	eaudio		A Networked Se	ou 14.2-4.	2		3.6 MiB	
						shad	ow		Utilities to Man	ag 4.8.1-2	.43		3.2 MiB	
	12	YaST Base	Utilities			shim			UEFI shim load	er 15.4-2.	1		1.8 MiB	
	Th	YaST Desk	ctop Utilities		N	syste	inux	ysvinit	System V Init to	ols 246.13	-5.1 2.29		4.6 KIB 5 2 MiB	•
	Th	YaST Serve	er Utilities		D	escrip	tion	Technical Data	Dependencies	Versions	File List	Change Lo	g	
	P	Software N	Management		br	andin	g-SLE	- SLE Brand File						
•		Graphic	al Environn	nents	Th	is pac	kage c	ontains the file /etc	/SUSE-brand, an	d its name is	used as a t	rigger for ins	tallation of	
	ë	GNOME D	esktop Environ	iment (CO	rrect v	endor	brand packages.						
	é	GNOME D	esktop Environ	iment (Su	pport	ability	: Level 3						
	Ë	GNOME D	esktop Environ	iment (
	X	Fonts												
	X	X Window	System	-								<u>C</u> ancel	<u>A</u> ccept	
														_

Figure 1-1 Software Installed as shown below



In Yast, select the patterns you need. Make sure you select the patterns and packages required to run Oracle products.

Figure 1-2 Software Installed as shown below

			Ya	ST2 -	– YaST2	- sw_	single @ Dell5530					×
<u>F</u> ile	Pac	kage Cont	figuration <u>D</u> ependencie	s <u>O</u>	ptions E	xtras	s <u>H</u> elp					
Vie	w	Search	Installation Summary	Pa	tter <u>n</u> s	Pack	age <u>Classification</u>					
		Pattern	-	*								
	G	Web and L	AMP Server		 Packa 	ge			Summary		Installed (Availa	ab Size
	0	Internet Ga	ateway	6	 orarui patter 	n ms-b	ase-basesystem		An Environmen Minimal Base S	t for R ystem (2.1-15.13 20200124-8.1	72.8 KiB 56 B
	ō	DHCP and	DNS Server	6	patter	ns-se	erver-enterprise-o	racle_server	Oracle Server B	ase	20171206-12.3	.1 59 B
	-	Directory S	Server (LDAP)									
	¢	Xen Virtua	l Machine Host Server									
	¢	KVM Host	Server									
-		Primary	Functions									
	G	Live Patchi	ing									
		FIPS 140-2	2 specific packages									
	þ	Infiniband	(OFED)									
		SAP Applic	cation Server Base									
		Oracle Ser	ver Base		D <u>e</u> scripti	ion	<u>T</u> echnical Data	Dependenci	es <u>V</u> ersions	File List	Change Log	g
-		Develop	oment		orarun - /	An Er	nvironment for Rur	ning Oracle P	roducts			<u> </u>
	þ	Base Deve	lopment		This pack	age c	reates the user and	the groups fo	or Oracle, sets th	ne Oracle e	environment va	riables,
	G	Linux Kern	el Development		sets kerne stop of Or	el par racle	ameters to values components at sys	recommended tem start and	d by Oracle, and stop time. It als	provides f o includes	or automated s dependencies	tart and for other
	To	YaST Deve	elopment	5	oftware other pac	packa kages	ages needed to inst s are included auto	all and use Or matically (whe	racle, so that wh en you install via	en you sel YaST2) or	ect this package r that you are at	e the
-	_	Docume	entation	T	eminded	to in	stall them (when in	stalling via th	e rpm command	d). This pa	ckage is not req	uired
	۹	Help and S	Support Documentation		or runnin	ig Ora	acie but it simplifie	s things signif	ricantly.			-
	۹	Document	ation	-							Cancel	Accept

(Note: Please make sure that 'compat-libpthread-nonshared' is installed.)

YaST	12 — YaST2 - sw	_single @ Dell5530					×
<u>File</u> <u>Package</u> Configuration <u>D</u> ependencies	Options Extra	s <u>H</u> elp					
View · Search Installation Summary	Patterns Pac	kage <u>C</u> lassification					
compat-libpthread ▼ Search Search in ✓ Name ✓ Name ✓ ✓ Keywords ✓ ✓ Summary Description	▼ Package ✓ compat-li	bpthread-nonshare	Summary d Compatibility	support for l	inking again	st libpthre	Installe Size 0-1.30 8 B
Bescription RPM "Provides" RPM "Reguires" File list Search <u>M</u> ode:							
Contains *	Description	Technical Data	Dependencies	Versions	File List	Change Log	g
Case Sensiti <u>v</u> e	compat-libpt libpthread_nd This package to exist. The s dynamic links libpthread_nd internal imple Supportability	hread-nonshared - onshared.a. provides compatibi upport provided is to succeed. Such a onshared.a which is mentation detail of r: Level 3	Compatibility sup lity support for ap in the form of an e oplications should no longer used. T the C runtime an	pport for link plications th empty libpthi I be adjusted he static libr d should not	ing against at expect lib read_nonshi to avoid lini ary libpthre be expected	opthread_non ared.a that al king against ad_nonshare d to exist.	shared.a lows d.a is an



After the installation of SUSE Linux Enterprise Server, the following information about the operating system and the kernel version is displayed.

Figure 1-3 OS release information and kernel version

oracle@Dell5530:~> more /etc/os-release NAME="SLES" VERSION="15-SP3" VERSION[ID="15.3" PRETTY_NAME="SUSE Linux Enterprise Server 15 SP3" ID="sles" ID_LIKE="suse" ANSI COLOR="0;32" CPE_NAME="cpe:/0:suse:sles:15:sp3" DOCUMENTATION_URL="https://documentation.suse.com/" oracle@Dell5530:~> uname -a Linux Dell5530 5.3.18-57-default #1 SMP Wed Apr 28 10:54:41 UTC 2021 (ba3c2e9/lp-5d9e8aa) x86_64 x86_64 x86_64 GNU/Linux oracle@Dell5530:~> []



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1-2. Installing KVM. Start YaST2 and choose Virtualization > Install Hypervisor and Tools. Select KVM server for a minimal installation of QEMU tools. Select KVM tools if a libvirt-based management stack is also desired. Confirm with Accept.

Figure 1-4 Installing KVM	

	YaST Col	YaST2 - virtualization @ Dell5530	×
Search Software Hardware	User Logon	Choose Hypervisor(s) to install Server: Minimal system to get a running Hypervisor Tools: Configure, manage and monitor virtual machines A disabled checkbox means the Hypervisor item has already been installed	ł
System Network Services Security and Users	Security and Users	Xen Hypervisor	
 Virtualization Support Miscellaneous 	Security Center	KVM Hypervisor KVM server KVM tools Cancel	7
	Virtualization		
	Create Virtual Machines	n Install Hypervisor and Tools	
	C Release Notes	Support	
	Display the system's log (/var/	log/messages) 🔁 Filesystem Snapshots	
	Systemd Journal	Construction Vendor Driver	•

To enable normal networking for the VM Guest, using a network bridge is recommended. YaST offers to automatically configure a bridge on the VM Host Server. Agree to do so by choosing Yes, otherwise choose No. After the setup has been finished, you can start setting up VM Guests. Rebooting the VM Host Server is not required.



2. Guest Installation

2-1. Download Oracle Linux 8.4(OracleLinux-R8-U4-x86_64-dvd.iso) from:https://yum.oracle.com/oracle-linux-downloads.html.

2-2. Create a new virtual machine.

1). Start the **New VM** wizard from YAST then choose an installation source.

	YaST	Control Center @ Dell5530	×
Ø		=	*
Search	을 User Logon	VPN Gateway and Clients	
Hardware	👖 Windows Domain Membe	ership 🛄 iSCSI Initiator	
System	Security and Users	New VM ×	
Network Services	AppArmor	Create a new virtual machine Step 1 of 5	
Security and Users	Security Center	Connection: QEMU/KVM	
 Support Miscellaneous 	Ser and Group Manager	Choose how you would like to install the operating system	
	Virtualization	Local install media (ISO image or CDROM)	
	Create Virtual Machines	O Network Install (HTTP, HTTPS, or FTP)	
	Eelocation Server Configu	 Import existing disk image Manual install 	
	Support	✓ Architecture options	
	Release Notes	Architecture: x86_64 -	
	Miscellaneous		
	Display the system's log (
	Systemd Journal	Cancel Back Forward	•



YaST Control Center @ Dell5530 Ø Search VPN Gateway and Clients 🔒 User Logon Software Windows Domain Membership iscsi Initiator Hardware New VM × System Security and Users Create a new virtual machine Network Services Mapp Armor Security and Users Security Center Choose ISO or CDROM install media: Virtualization No media selected Browse... -Support User and Group Manager ••• Miscellaneous Virtualization Create Virtual Machines Relocation Server Configu Support Release Notes Choose the operating system you are installing: Miscellaneous **Q** Waiting for install media / source Ø Display the system's log (Automatically detect from the installation media / source Cancel Back Forward Systemd Journal

2). Choose Install media, click Forward.

Select media volume, click Browse Local.

	YaST Contro	ol Center @ Dell5530		×
© Search	User Logon	📑 VPN Gateway a	and Clients	
 Software Hardware System Network Services Security and Users Virtualization Support Miscellaneous 	Windows Domain Membership Secur 20% default Filesystem Directory 14% Oracle_Linux 14% Filesystem Directory	iscSI Initiator Locate ISO media volum Details XML Size: 95.43 GiB Free / 24.57 G Location: /var/lib/libvirt/images Volumes Volumes OL8U3.qcow2	e <i>iB In Use</i> Size Format 30.00 GiB qcow2	X Used By OL8U3
	F F Supp Supp Misce F C F C F C F C C C C C C C C C C C C C	В	rowse Local Cancel	Choose Volume



Cancel					Locate I	SO media			٩	Open
⊘ Recent	•	0	home	ORACLE_SW	Oracle_Linux	Þ				
🔂 Home	Nan	ne					Ŧ	Size	Туре	Modified
🗅 Documents	B	Oracl	eLinux-R	8-U3-x86_64-dv	d.iso			9.2 GB	raw CD image	7 Apr
— ↓ Downloads		Oracl	eLinux-R	8-U4-x86_64-dv	d.iso			9.9 GB	raw CD image	3 Jun
J Music										
Pictures										
M Videos										
🖿 oracle										
🛛 efi										
P Filesyste										
🛛 home										
D i386-pc										
🛛 local										
O opt										
P root										
Isnapshots										
l srv										
O tmp										

Specify the path on the VM Host Server to an ISO image containing the installation data.

3). Choose install media and operating system you are installing.

	Yası	Control Center @ Dell5550
		=
earch	을 User Logon	vPN Gateway and Clients
Software		
Hardware	🚛 Windows Domain Member	rship iSCSI Initiator
System	Security and Users	New VM ×
Network Services	AppArmor	Create a new virtual machine Step 2 of 5
Virtualization	Security Center	Choose ISO or CDROM install media:
Support	luser and Group Manager	acle_Linux/OracleLinux-R8-U4-x86_64-dvd.iso Browse Browse
	Virtualization	
	Create Virtual Machines	
	E Relocation Server Configu	
	Support	
	Release Notes	Choose the operating system you are installing:
	Miscellaneous	Q Oracle Linux 8.2
	Display the system's log (Automatically detect from the installation media / source
	Systemd Journal	Cancel Back Forward

(Note: There is no Oracle Linux 8.4 in the options, select a distribution that is similar to the system you are installing.)



	YaSTCo	ontrol Center @ Dell5530
earch	🖉 💶	اروبار کورا VPN Gateway and Clients
Hardware	Windows Domain Members	ship iSCSI Initiator
Network Services	Security and Users	Create a new virtual machine Step 3 of 5
Security and Users	Security Center	Choose Memory and CPU settings:
 Support Miscellaneous 	User and Group Manager	CPUs: 4 – +
	Create Virtual Machines	Up to 12 available
	Support	
	Release Notes	
	Display the system's log (Concel Back Forward
	Systemd Journal	Cancel Back Forward

4). Choose Memory and CPU setting.



5). Create a disk image for the virtual machine.



6). Ready to begin the installation.



Select Customize configuration before install, then click Finish.



7). VM Guest configuration dialog as shown below.

When you are done configuring, click **Begin Installation**.



2-3. Installing Oracle Linux.

1). Opening a Graphical Console through virt-viewer.

Œ		oracle@Dell5530:/opt/oracle			۹ ≡		
	oracle@Dell5530:/opt/oracle				oracle@Dell5530:/opt/oracle		
Dell5530:/opt/ora	acle # virt-viewer						
		Choose a	virtual machine	×			
		Available virtu	al machines				
		OL8U4					
		Can	cel Connec	ct			



2). Installing Oracle Linux as guest os – Welcome Screen.

	OL8U4 (1) - Virt Viewer
View Send key Help	
	ORACLE LINUX 8.4 INSTALLATION
Linux	🖼 us Help!
WELCOME TO	ORACLE LINUX 8.4.
	del un dite te un durine the installation encours?
vvnat language wol	ato you like to use during the installation 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)
Беларуская	Belarusian English (New Zealand)
Български	Bulgarian English (Nigeria)
বাংলা	Banda English (Hong Kong SAR China)
55-355°	Tibotan English (Philippines)
- Imi I Descenti	English (Singapore)
Bosanski	Bosnian English (South Africa)
Catala	Catalan English (Zambia)
Cestina	Czech English (Zimbabwe)
Cymraeg	Welsh English (Botswana)
_Dansk	Danish
	0
	Quit Continue



3). Installation summary.



Selecting any of the menu options opens additional screens for configuring the options. As a minimum, you must visit the options with a warning icon next to them. However, going through all the options is recommended so that you can see the various configuration settings that are available for the installation. You can change the installation configuration options as much as you like. The installation does not begin until you click Begin Installation. As you visit the configuration options, pay attention to any warning messages that are displayed at the bottom of the screen





4). Installation Progress

OL8U4 (1) - Virt Viewer				
File View Sendkey Hel	p			
CRACLE	INSTALLATION PROGRESS		ORACLE LINUX 8.4 INSTALLATION	
	C Generating initramfs		Quit Reboot System	-

Wait for the installation to complete and click Reboot System.





2-4. Connect to the virtual machine and log in to Guest OS - Oracle Linux 8.4

1). Opening a Graphical Console through Virtual Machine Manager.

E	oracle@Dell5530:/opt/oracle	٩	
oracle@Dell5530:/opt/oracle ×	Virtual Machine Manager ×	oracle	
Dell5530:/opt/oracle # virt-manager Dell5530:/opt/oracle # ☐	File Edit View Help		



2). Running VM guest.





3). Initial Setup Screen. Depending on your software selection, the system might prompt you to accept the license at the end of the system reboot. Click License Information and accept the license.

License Agreement: ORACLE LINUX LICENSE AGREEMENT	🖽 us He
License Agreement: ORACLE LINUX LICENSE AGREEMENT	
License Agreement: ORACLE LINUX LICENSE AGREEMENT	
ORACLE LINUX LICENSE AGREEMENT	
"We," "us," "our" and "Oracle" refers to Oracle America, Inc. "You" and "your" refers to the individual or entity that has a Linux programs. "Oracle Linux programs" refers to the Linux software product which you have acquired. "License" refer the Oracle Linux programs under the terms of this Agreement and the licenses referenced herein. This Agreement is g substantive and procedural laws of the United States and the State of California and you and Oracle agree to submit to jurisdiction of, and venue in, the courts of San Francisco or Santa Clara counties in California in any dispute arising out Agreement.	acquired the Oracle rrs to your right to use governed by the of the exclusive of or relating to this
We are willing to provide a copy of the Oracle Linux programs to you only upon the condition that you accept all of th this Agreement. Read the terms carefully and indicate your acceptance by either selecting the "Accept" button at the bo confirm your acceptance, if you are downloading the Oracle Linux programs, or continuing to install the Oracle Linux preceived this Agreement during the installation process. If you are not willing to be bound by these terms, select the " or discontinue the installation process.	ne terms contained in ottom of the page to rograms, if you have Do Not Accept" button
1. Grant of Licenses to the Oracle Linux programs. Subject to the terms of this Agreement, Oracle grants to you a lice programs under the GNU General Public License version 2.0. The Oracle Linux programs contain many components dev various third parties. The license for each component is located in the licensing documentation and/or in the component addition, a list of components may be delivered with the Oracle Linux programs and the Additional Oracle Linux programs and the Additional Oracle Linux Programs and Linux programs can be found and accessed online at https://oss.oracle.com/sources/. This agreement does not limit, so your rights under the license associated with any separately licensed individual component.	ense to the Oracle Linux reloped by Oracle and nt's source code. In ms (as defined below) or rd the Additional Oracle upersede or modify
✓ I accept the license agreement.	





4). Login Srceen.

	Jun 10 04:	37	0 -	• € O +
su Su	se			
Password:				
•••••				
Cancel		🔅 🛛 Sign In		
	ORACLE			
				House and the



5). Language Selection.

🛛 Activities 🔳 anome-initial-setun 👻		Jun 10 04:38	an (1) -
		Welcome	Next
		Welcome!	
	Arabic	Egypt	
	Chinese	China	
	English 🖌	United States	
	French	France	
	German	Germany	
	Japanese	Japan	
	Russian	Russian Federation	
	Spanish	Spain	
		1	



6). Typing Screen.

Activities	gnome-initial-setup 🗸	Jun 10 04:39		•\ <u>*</u> () →
Previous		Typing		Next
		Typing Select your keyboard layout or an input r	nethod.	
	Car	neroon Multilingual (Dvorak)	Preview	
	Car	meroon Multilingual (QWERTY)	Preview	
	Eng	glish (Australian)	Preview	
	Eng	glish (Cameroon)	Preview	
	Eng	glish (Canada)	Preview	
	Eng	glish (US)	✓ Preview	
		1		



7). Privacy Screen.

Activities	gnome-initial-setup 👻	Jun 10 04:39	•ù ⊕ +
Previous		Privacy	Next
		ully in the second s	
		Privacy	
	Location Services	OFF	
	Allows applications to determ indication is shown when loca	ine your geographical location. An tion services are in use.	
	Uses Mozilla Location Service	: <u>Privacy Policy</u>	
	Privacy controls can be chang	ed at any time from the Settings application.	



8). Online Accounts Screen.

Activities	gnome-initial-setup 👻	Jun 10 04:40	40	<u>-</u> ال
Previous		Online Accounts		Skip
		Connect Your Online Accounts Connect your accounts to easily access your email, online calendar, contacts, documents and photos.		
	G	Google		
	~	Nextcloud		
		Microsoft		
	f	Facebook		
	Account	s can be added and removed at any time from the Settings application.		



9). Ready to Go Screen.

Activities	gnome-initial-setup 👻	Jun 10 04:40	••¥ () -
		Ready to Go	
		Â	
		You're ready to go!	
		Start Using Oracle Linux Server	











11). Open a browser and visit an external website.





12). Start the monitor to view the system resources.

•		Processes		Resource	s File Sy	stems		Q	≡ ×
Process Name 👻	User	% CPU	ID	Memory	Disk read tota	Disk write tot	Disk read	Disk write	Priority
 at-spi2-registryd	suse	(6409	1.1 MiB	N/A	N/A	N/A	N/A	Normal
at-spi-bus-launcher	suse	(6401	3.1 MiB	N/A	N/A	N/A	N/A	Normal
🖻 bash	suse	(7349	2.1 MiB	4.6 MiB	20.0 KiB	N/A	N/A	Normal
 dbus-daemon	suse	(6267	1.6 MiB	N/A	N/A	N/A	N/A	Normal
 dbus-daemon	suse	(6406	668.0 KiB	N/A	N/A	N/A	N/A	Normal
뗾 dconf-service	suse	(6465	944.0 KiB	N/A	116.0 KiB	N/A	N/A	Normal
evolution-addressbook-factory	suse	(6666	4.3 MiB	620.0 KiB	N/A	N/A	N/A	Normal
evolution-addressbook-factory-	suse	(6719	4.5 MiB	20.0 KiB	128.0 KiB	N/A	N/A	Normal
evolution-calendar-factory	suse	(6548	4.3 MiB	512.0 KiB	N/A	N/A	N/A	Normal
evolution-calendar-factory-subp	suse	(6599	6.2 MiB	20.0 KiB	4.0 KiB	N/A	N/A	Normal
evolution-source-registry	suse	(6460	4.3 MiB	1.7 MiB	4.0 KiB	N/A	N/A	Normal
	suse	(8578	21.9 MiB	584.0 KiB	N/A	N/A	N/A	Normal
🍯 firefox	suse	(8499	116.6 MiB	84.0 KiB	27.3 MiB	N/A	N/A	Normal
 	suse	(6259	1.6 MiB	N/A	N/A	N/A	N/A	Normal
ome-control-center-search-p	suse	(8820	4.9 MiB	56.0 KiB	N/A	N/A	N/A	Normal
 	suse	(6250	1.2 MiB	N/A	N/A	N/A	N/A	Normal
 Inome-session-binary	suse	(6270	4.8 MiB	76.8 MiB	1.1 MiB	N/A	N/A	Normal
 	suse	1	6348	171.7 MiB	200.9 MiB	62.4 MiB	N/A	1.3 KiB/s	Normal
 Inome-shell-calendar-server	suse	(6454	3.1 MiB	26.0 MiB	N/A	N/A	N/A	Normal
🖶 gnome-software	suse	(6722	67.7 MiB	13.3 MiB	2.3 MiB	N/A	N/A	Normal
gnome-system-monitor	suse	(8920	21.4 MiB	7.7 MiB	N/A	N/A	N/A	Normal
 	suse	(7344	10.5 MiB	1.1 MiB	N/A	N/A	N/A	Normal
 goa-daemon	suse	(6470	8.5 MiB	40.2 MiB	N/A	N/A	N/A	Normal
 goa-identity-service	suse	(6485	2.0 MiB	160.0 KiB	N/A	N/A	N/A	Normal
	suse	(6576	980.0 KiB	N/A	N/A	N/A	N/A	Normal





			Processes		Resources	File Systems		×	
Device	Directory 👻	Туре	Total	Available	Used				
dev/mapp،	1	xfs	27.9 GB	22.9 GB	5.0 GB			18%	
画 /dev/vda1	/boot	xfs	1.1 GB	744.5 MB	318.7 MB			29%	

Thanks for selecting SUSE Linux Enterprise Server as your Linux platform of choice!