

Click: New

		?	\times
~	Create Virtual Machine		
	Name and operating system		
	Name: Fedora 31 Developer		
	Machine Folder: C:\Users\JeffKayser\VirtualBox\VMs		\sim
	Type: Linux	• 64	
	Version: Fedora (64-bit)	-	
[Memory size		
	409	96 🜩	мв
	4 MB 65536 MB		
	Hard disk		
	O Do not add a virtual hard disk		
	Create a virtual hard disk now		
	O Use an existing virtual hard disk file		
	Windows_7_x64-disk2.vdi (Normal, 80.00 GB)	· [2
	Guided Mode Create	Cance	4
		Curice	•

Name: Fedora 31 Developer

Memory Size: 4096

Click: Create



File location: .../BOOT.vdi

Disk size: 1 GB

Click: Create



Click: Settings

Step 035 – Create Fedora 31 Workstation VM

Settings	?	×
General General		
System Basic Advanced Description Disk Encryption		
Display Snapshot Folder: C:\Users\Jeff Kayser\Virtuain VMs\Fedor	a 31 Developer \Snapshots	~
Storage Shared Clipboard: Bidirectional		
Audio Drag'n'Drop: Bidirectional V		
Network		
Serial Ports		
SB USB		
Shared Folders		
User Interface		
	OK Car	ncel

Section: General

Tab: Advanced

Shared Clipboard: Bidirectional

Drag'n'Drop: Bidirectional

🥹 Fedora 31 Developer - Settings	?	×
General System		
System Motherboard Processor Acceleration		
Display Base Memory:	4096 MB	-
Storage 4MB 65530	5 MB	
Audio Boot Order:		
Network		
Serial Ports Chipset: PIIX3 -		
USB Pointing Device: USB Tablet		
Shared Folders Extended Features: C Enable I/O APIC		
User Interface I Hardware Clock in UTC Time		
OK	Ca	ncel

Section: System

Tab: Motherboard

Boot Order: 1: Hard Disk (checked)

Boot Order: 2: Optical (checked)

Boot Order: 3: Floppy (unchecked)

Step 035 – Create Fedora 31 Workstation VM

😳 Fedora 31 Develop	er - Settings			?	×	
E General	Storage					
System	Storage Devices	Attributes Optical Drive:	IDE Secondary Master	r v	\odot	
Display Storage	Controller: SATA	Information	Live CD/DVD			Choose Virtual Optical Disk File Fedora-Server-dvd-x86_64-31-1.9.iso
 Audio Network Serial Ports 	BOOT.vdi	Size: Location: Attached to:				V983280-01.iso V980739-01.iso kali-linux-2018.3a-amd64.iso
USB					6	Remove Disk from Virtual Drive
User Interface						
		1	ОК	Cancel	I	

Section: Storage

Click: Optical drive (Empty)

Attributes: Click disk chooser

Click: Fedora Workstation 31 x86_64 ISO file.

😟 Fedora 31 Develop	er - Settings		?	×
General	Storage			
System	Storage Devices	Attributes		
Display	Controller: IDE	Name: SATA		
Storage	Fedora-Workstation-Live-x86	Type: AHCI		 ▼
Audio	BOOT.vdi	Use Host I/	O Cache	_
Network				
Serial Ports				
DSB				
Shared Folders				
User Interface				
		Add Optical Drive Add Hard Disk OK	Can	cel

Click: Controller: SATA

Click: icon to add storage attachment

Click: Add Hard Disk



Click: Create new disk

	?	\times
 Create Virtual Hard Disk 		
Hard disk file type		
Please choose the type of file that you would like to use for the new virtual hard disk. If y need to use it with other virtualization software you can leave this setting unchanged.	/ou do no	ot
VDI (VirtualBox Disk Image)		
○ VHD (Virtual Hard Disk)		
O VMDK (Virtual Machine Disk)		
Expert Mode Next	Cance	9

Click: Expert Mode

	? >
 Create Virtual Hard Disk 	
File location	
C:\Users\Jeff Kayser\VirtualBox\VMs\Main	VMs\Fedora 31 Developer \ROOT.vdi
File size	
	80.00 GB
4.00 MB	2.00 TB
Hard disk file type	Storage on physical hard disk
VDI (VirtualBox Disk Image)	Oynamically allocated
O VHD (Virtual Hard Disk)	O Fixed size
🔿 VMDK (Virtual Machine Disk)	Split into files of less than 2GB
O HDD (Parallels Hard Disk)	
O QCOW (QEMU Copy-On-Write)	
O QED (QEMU enhanced disk)	
	¥
	Guided Mode Create Cancel

File location: .../ROOT.vdi

File Size: 80 GB

Click: Create

😟 Fedora 31 Develop	er - Settings	?	×
General	Storage		
System	Storage Devices Attributes		
Display	Controller: IDE Name: SATA		
Storage	Controller: SATA C Type: AHCI Port Count: 3		▼
🕩 Audio	🙆 BOOT.vdi	ache	
Retwork	ROOT.vdi		
Serial Ports			
USB			
Shared Folders			
User Interface			
	🔄 🍲 🖥 🔐 Add Optical Drive		
	Add Hard Disk OK	Can	icel

Click: Controller: SATA

Click: icon to add storage attachment

Click: Add Hard Disk



Click: Create new disk

	1
Create Virtual Hard Disk	
File location	
C:\Users\Jeff Kayser\VirtualBox\VMs\Main	VMs\Fedora 31 Developer\SWAP.vdi
File size	
	4.00 G
4.00 MB	2.00 TB
Hard disk file type	Storage on physical hard disk
VDI (VirtualBox Disk Image)	Oynamically allocated
○ VHD (Virtual Hard Disk)	○ Fixed size
🔿 VMDK (Virtual Machine Disk)	Split into files of less than 2GB
O HDD (Parallels Hard Disk)	
O QCOW (QEMU Copy-On-Write)	
O QED (QEMU enhanced disk)	

File location: .../SWAP.vdi

File Size: 4 GB

Click: Create

😧 Fedora 31 Develope	er - Settings		?	×
General	Storage			
SystemDisplayStorageAudioNetworkSerial PortsSolarShared FoldersShared Folders	Storage Devices Controller: IDE Controller: SATA SOOT.vdi SWAP.vdi SWAP.vdi	Attributes Name: SATA Type: AHCI Port Count: 3	ost I/O Cache	↓
	🔄 🧔 🧔		OK C	'ancol
			UK C	ancei

Continuing on. . .

Step 035 – Create Fedora 31 Workstation VM

😳 Fedora 31 Developer - Settings	?	\times
General Network		
System Adapter 1 Adapter 2 Adapter 3 Adapter 4		
Display Enable Network Adapter		
Storage Attached to: NAT		- 1
Audio Advanced		~
Network		
Serial Ports		
SB USB		
Shared Folders		
User Interface		
ОК	Can	ncel

Section: Network

Tab: Adapter 1

Check: Enable Network Adapter

Attached to: NAT

Step 035 – Create Fedora 31 Workstation VM

🕑 Fe	dora 31 Develope	er - Settings	?	\times
	General	Network		
	System	Adapter 1 Adapter 2 Adapter 3 Adapter 4		
	Display	Enable Network Adapter		
$\mathbf{\Sigma}$	Storage	Attached to: Host-only Adapter 🔻		_
	Audio	Name: VirtualBox Host-Only Ethernet Adapter		-
	Network	Advanced		
	Serial Ports			
	USB			
	Shared Folders			
	User Interface			
L		ОК	Can	cel

Tab: Adapter 2

Check: Enable Network Adapter

Attached to: Host-only Adapter

Click: OK



Click: Start



Highlight: Test this media & start Fedora-Workstation-Live 31

Click: Enter



Click: Install to Hard Drive



Click: Continue



Click: Installation Destination

Activities 🧕 Install to Hard	l Drive 🔻	Nov 22 07:53			1 (i) 🖌 🔸
INSTALLATION DESTINATI	ON			FEDORA 31 🖽 us	INSTALLATION Help!
Device Selection					
Select the device(s) you'd like "Begin Installation" button.	e to install to. They	/ will be left un	touched until yo	ou click on the	main menu's
Local Standard Disks				/	
1024 MiB	80 GiB	*	4 GiB	•	
ATA VBOX HARDDISK	ATA VBOX HAR	DDISK A	TA VBOX HARD	DISK	
sda / 1024 MiB free	sdb / 80 Gi	3 free	sdc / 4 GiB f	free	
Specialized & Network Disks			Disks left	unselected here	will not be touched.
Add a disk					
		\sim	Disks left	unselected here	will not be touched.
Storage Configuration	-				
 Automatic 	 Custom 	7	Advanced Custo	m (Blivet-GUI)	
Full disk summary and boot loader			3 disks selected; 8	5 GiB capacity; 8	5 GiB free <u>Refresh</u>

Select: All disks

Select: Advanced Custom (Blivet-GUI)

Click: Done

Activities	🕑 Install to Hard	Drive 🔻	No	v26 19:2	3		+ •) F -
BLIVET G	UI PARTITIONING					FEDORA 32	LINSTALLATION Help!
	Disks sda	Logical View	,				
	sdb VBOX HARDDISK sdc VBOX HARDDISK				free 5 1023	space 3 MiB	0
		+ 🛛 🧳		• ©]		
		free space f	ree spac	Format	Size 1023 MiE	Mountpoint B	
						\mathbf{n}	
<u>1 pending a</u>	<u>ction</u>					Undo last ac	tion Reset All

Click: Undo last action (otherwise, you won't be prompted for the type of partition table).

The default it to create msdos partitions, and you have to explicitly choose gpt if you want that type of partition table.

Activities 🗿 Install to Hard	Drive 🔻	Nov 22 07:55	5		+ •) Ø -
BLIVET GUI PARTITIONING				FEDORA 31 INS	TALLATION Help!
Disks	Logical View				
sda VBOX HARDDISK					
sdb VBOX HARDDISK			free sp	pace	
sdc vBOX HARDDISK			1024	MIB	0
	+ 🖸 🖑	≜ ~ Q			
	Device Ty	pe Format	Size	Mountpoint	
-	free space fre	e space	1024 MiB		
		New	Insert		
		Delete	Delete		
		Edit	•		
		Unmount			
		Decrypt			
		Information			
No pending actions				Undo last action	Reset All
Select: sda (1GB)					

Right-click: free space

Click: New

Activities	👲 Install to	Hard Drive 🔻 Nov 22	07:56	- 40) 🕃 🗸
BLIVET G				FEDORA 31 INSTALLATION
	Disks sda <i>VBOX HARDDISK</i>	Logical View		
	sdb <i>VBOX HARDDISK</i> sdc <i>VBOX HARDDISK</i>		free space 1024 MiB	0
		No partition tab	le found on disk	
		A partition table is required be	efore partitions can be adde	d.
		Select new partition table type:	gpt	•
		Cancel	ОК	•
No pending	actions			Undo last action Reset All

Partition table type: gpt

Click: OK

Right-click: free space

Click: New

Activities	🕑 Install to Hard Drive 🔻	Nov 22 07:57	. ••) ? -
BLIVET GUI Done			FEDORA 31 INSTALLATION
Dis Sd VB Sd VB Sd VB	sks Lucion Device type: Available devices: 1024 KiB Manually specify layout Filesystem: Encrypt: Show advanced options	Partition Device Type Size Sda disk 1023 MiB 2 Size: 2 MiB BIOS Boot	- + MiB -
1 pending actio	<u>n</u>		Undo last action Reset All

Device type: Partition

Size: 1 MiB

Filesystem: BIOS Boot

Click: OK

Activities	🕑 Install to Hard	Drive 🔻		Nov 22	07:5	8		k ♥) Ø ▼
BLIVET	UI PARTITIONING						FEDORA 31	INSTALLATION
Done							🖾 us	Help!
	Disks	Logical V	'iew					
	sda <i>VBOX HARDDISK</i>							
	sdb VBOX HARDDISK	sda1					free space	
	sdc VBOX HARDDISK	1024 KiB					1021 MiB	0
		+ 0	æ	≜ ~	Õ			
	~	Device	Туре	e F	ormat	Size	Mountpoint	
		sda1	partit	tion b	iosboot	1024 KiB	1	
		🔺 free spac	New	space	Inse	1021 MiB	3	
			Delet	e	Dele	te		
			Edit			•		
			Unmo	ount				
			Decry	/pt				
			Inforr	mation				
2 pending a	actions						Undo last acti	on Reset All

Right-click: free space

Click: New

Activities	🗿 Install to Hard Drive 🔻	Nov 22 08:01	. ∎. •0) € -
BLIVET GU			FEDORA 31 INSTALLATION
Done			Help!
	Device type:	Partition -	
	sd. Available devices:	Device Type Size	
	sdl VB	🗹 sda disk 1021 MiB	
	sdi VB	1021 Size: 1021	1 - + MiB -
	2 MiB	1021 MiB	
	Manually specify layou	t	
	Filesystem:	xfs •	
	Label:	воот	
	Mountpoint:	/boot	
	Encrypt:		$\langle \rangle$
	Show advanced options		
			Cancel OK
2 pending ac	tions		Undo last action Reset All

Device type: Partition

Fiesystem: xfs

Label: BOOT

Mountpoint: /boot

Click: OK

Activities	🗿 Install to Hard	Drive	•		No	ov 22	08:03	3			. •) 9 -
BLIVET C	SUI PARTITIONING									FEDORA 31 INS	TALLATION Help!
	Disks sda	Log	gical \	/iew							
	VBOX HARDDISK sdb VBOX HARDDISK sdc VBOX HARDDISK							free 8(e space 0 GiB		0
		+	0	\$		0-	Ģ				
		Devi	ce	Ту	pe	Fo	rmat	Size	Mountp	oint	
		fre	e spa	ce fre	e spac	:e		80 Cirl			
							New	_	Insert		
							Delet	e	Delete		
							Edit				
							Unmo	ount			
							Decry	/pt			
							mon	nation			
<u>3 pending</u> a	actions									Undo last action	Reset All
	/										
Select: sdb	(80 GB)										

Right-click: free space

Click: New

Activities 🗕 Install to	Hard Drive 🔻 Nov 22	08:04	4	•) 🗲 🔻
BLIVET GUI PARTITION			FEDORA 31 INST	ALLATION Help!
Disks sda vBOX HARDDISK Sdb vBOX HARDDISK Sdc vBOX HARDDISK	Logical View Logical View No partition tab A partition table is required be Select new partition table type: Cancel	free space 80 GiB Le found on disk efore partitions can be acted gpt OK	d.	
<u>3 pending actions</u>			Undo last action	Reset All

Partition table type: gpt

Click: OK

Right-click: free space

Click: New

Activities	💈 Install to Hard Drive 🔻	Nov 22 08:05	- (i) (j) -
BLIVET GUI P Done			FEDORA 31 INSTALLATION
Sda VBC	CS Device type: Available devices: 8 MiB Manually specify layout Name: Encrypt: Show advanced options	LVM2 Volume Group ▼ Device Type Size Sdb disk region 80 GiB 80.0 Size: 80.0 80 GiB	- + GiB -
4 pending action	<u>15</u>		Undo last action Reset All

Device type: LVM2 Volume Group

Name : vg0

Click : OK

Activities	🕑 Install to Hard	Drive 🔻	Nov 22	08:06		- 10 2 -
BLIVET G	UI PARTITIONING				FEDORA 31 INS	TALLATION Help!
	Disks sda VBOX HARDDISK sdb VBOX HARDDISK sdc VBOX HARDDISK	Logical V	/iew	free 4	: space - GiB	0
	LVM vg0 <i>LVM2 VG</i>	+ S Device free space	Image: Type Former Type Former New Delete Edit Unmount Decrypt Information	♀ A GiB Insert Delete ▶	Mountpoint	
5 pending a	actions				Undo last action	Reset All

Select : sdc (4 GB)

Right-click : free space

Click : New

Activities	🕑 Install to	Hard Drive 🔻 Nov	22 08:07	⊢ •0) € -
BLIVET C				FEDORA 31 INSTALLATION
	Disks sda VBOX HARDDISK sdb VBOX HARDDISK sdc VBOX HARDDISK LVM vg0 LVM2 VG	Logical View No partition t A partition table is required Select new partition table type Cancel	free space 4 GIB able found on disk I before partitions can be add e: gpt OK	
<u>5 pending</u>	actions			Undo last action Reset All

Partition table type : gpt

Click : OK

Right-click : free space

Click : New

Activities	🕑 Install to Hard Drive 🔻	Nov 22 08:07	e e e e e e e e e e e e e e e e e e e	••) 🗲 🗸
BLIVET GL			FEDORA 31 INST	
Done			🖽 us	Help!
	Di Device type:	Partition		
	/B Available devices: /B	Device Type Size		
	и ИВ	4095		0
	.V /g I 1024 KiB	4 GiB Size: 40	095 — + MiB ▼	
	Manually specify layout			
	Filesystem:	swap	_	
	Label:	SWAP		
	Encrypt:		χ	
	Show advanced options		Cancel	
6 pending ac	tions		Undo last action	Reset All

Device type: Partition

Filesystem: swap

Label: SWAP

Click: OK

Activities	🗕 Install to Hard	Drive 🔻	N	ov 22 08:08	8		4 () F -
BLIVET O Done	UI PARTITIONING					FEDORA 31 us	INSTALLATION
	Disks sda <i>VBOX HARDDISK</i> sdb <i>VBOX HARDDISK</i> sdc <i>VBOX HARDDISK</i>	Logical V	/iew P	hysical View	free space 80 GiB		0
	LVM vg0 LVM2 VG	+ Oevice	Type te free spa	o-n ♀ Format New Delete Edit Unmout Decrypt Informat	Size Mou Insert Delete	Intpoint	
7 pending a	ictions					Undo last act	tion Reset All

Select: vg LVM2 Volume Group

Right-click: free space

Click: New

Step 035 – Create Fedora 31 Workstation VM

Activities	🙆 Install to Hard Drive 🔻	Nov 22 08:09	📇 🐠 🛃 👻
BLIVET GU	I PARTITIONING		FEDORA 31 INSTALLATION
Done	Device type:	LVM2 Logical Volume 👻	Help!
[Di: Available devices:	Device Type Size	
	di /B	🗹 vg0 🛛 lvmvg 80 GiB	
	dl RAID level:	linear 💌	
	di		
	.v	80.0 Size:	80.0 – + GiB -
	9 4 MiB	80 GiB	
	Manually specify layout		
	Filesystem:	xfs 🔹	
	Label:	ROOT	
	Name:	root	
	Mountpoint:	1	
	Encrypt:		
			Cancel
7 pending act	ions		Undo last action Reset All

Device type: LVM2 Logical Volume

Filesystem: xfs

Label: ROOT

Name: root

Mountpoint: /

Click: OK

Activities	🕑 Install to Hard	Drive 🔻	No	v 22 08:1	0		. •0 € ▼
BLIVET G	UI PARTITIONING					FEDORA 32	1 INSTALLATION Help!
	Disks sda VBOX HARDDISK sdb VBOX HARDDISK sdc VBOX HARDDISK	Logical Vi	iew Ph	iysical View	vg0 80	I-root I GiB	
	LVM vg0 <i>LVM2 VG</i>	+ S Device vg0-root	Image: Weight of the second secon	o₁ Q Format xfs	Size 80 GiB	Mountpoint /	
<u>8 pending a</u>	actions					Undo last ac	tion Reset All

Click: Done

ļ	Activities	s 🗕 Instal	l to Hard Drive 🔻	Nov 22 08:11		1 (N) 🛃 🔻
					FEDORA	31 INSTALLATION Help!
	SUMMA Your cus	RY OF CHANGE	:S result in the following o	changes taking effect after you re	turn to the main menu	and begin installation:
	Order	Action	Туре	Device	Mount point	
l	1	Create Format	partition table (GPT)	ATA VBOX HARDDISK (sdc)		
l	2	Create Device	partition	sdc1 on ATA VBOX HARDDISK		
l	3	Create Format	swap	sdc1 on ATA VBOX HARDDISK		J
Ľ	4	Create Format	partition table (GPT)	ATA VBOX HARDDISK (sdb)		
L	5	Create Device	partition	sdb1 on ATA VBOX HARDDISK		
l	6	Create Format	physical volume (LVM)	sdb1 on ATA VBOX HARDDISK		
l	7	Create Device	lvmvg	vg0		
l	8	Create Device	lvmlv	vg0-root		
l	9	Create Format	xfs	vg0-root	1	
l	10	Create Format	partition table (GPT)	ATA VBOX HARDDISK (sda)	×	
l	11	Create Device	partition	sda1 on ATA VBOX HARDDISK		\backslash
l	12	Create Device	partition	sda2 on ATA VBOX HARDDISK		
l				Cancel & Return to Cu	ustom Partitioning	Accept Changes
	8 pending	g actions			Undo las	t action Reset All

Click: Accept Changes



Click: Time & Date



Click: somewhere near your time zone (in our case, Los Angeles)

Region: Americas

City: Los Angeles

Network Time: enabled

Click: Done



Click: Begin Installation



Progress...



Progress...



Click: Finish Installation





Restart



		÷•) 🖸 🗸
Previous	Privacy	Next
	Privacy	
	Location Services	
	Allows applications to determine your geographical location. An indication is shown when location services are in use.	
	Uses Mozilla Location Service: Privacy Policy	
	Automatic Problem Reporting	
	Sending reports of technical problems helps us to improve Fedora. Reports are sent anonymously and are scrubbed of personal data.	
	Problem data will be collected by Fedora: Privacy Policy	
	Privacy controls can be changed at any time from the Settings application.	

		÷•0 € ▼
Previous	Online Accounts	Skip
	Connect Your Online Accounts Connect your accounts to easily access your email, online calendar, contacts, documents and photos.	
	Google	
	•••• Nextcloud	
	Microsoft	
	Facebook	
	Accounts can be added and removed at any time from the Settings application.	



			⊨ •0 € -		
Previous	About You				
W					
Full Name	Oracle Developer	*]		
Username	odeveloper	<i>√</i> ▼]		
	This will be used to name changed.	e your home folder and can't be			
Full Name: Oracle Developer	Litterprise	Login			

Username: odeveloper

_		.t •0 € -
Previous	Password	Next
	Set a Password	
	Be careful not to lose your password.	
F	assword	
	Adding more letters, numbers and punctuation will make the password stronger.	
	Confirm	

Use KeePass to create a new password for the Oracle Developer account

Password: {odeveloper password}

Confirm: {odeveloper password}



Click: Start Using Fedora



Launch applications

Switch tasks



Exit help



Right-click for drop-down menu Click: gear (settings)



Click: Network

Click: Gear for second network adapter





Click: IPv4

Activities	🗘 Settings 🕶	Nov 22 05:56		1 (N) 🖌 🔻
٩	Cancel	Wired		Apply
P Regior	Details Identity	IPv4 IPv6 Security		
🕄 Univer	IPv4 Method	O Automatic (DHCP)	C Link-Local Only	
la Online		► 🗿 Manual	O Disable	
😃 Privac	Addresses			
Applic	Address 192.168.153.239	255.255.255.0	Gateway	0
< Sharin				0
Sound	DNS		Automatic	
C Power				
🖵 Netwo	Separate IP addresses with c	ommas		
🔁 Device	Routes Address	Netmask	Automatic Gateway Metric	
🛙 Detail:				0

Step 035 – Create Fedora 31 Workstation VM

IPv4 Method: Manual

Address: 192.168.153.239

Network: 255.255.255.0

Click: Apply



Click: Details



Device name: fedora31developer

Click: Check for updates

Activities	🕯 Softwar	e ▼	Nov 22 06:02		⊦ •)) € -
G		Explore	Installed	Updates 13	≡ ×
Requires R	estart				Download
*	OS Updates		Includes performance,	stability and security imp	rovements.
14	Calendar 3.34.1 → 3.34	1.2	gnome-calendar 3.34.2 crashers	2 release: * Updated trans	lations * Fix various
	Evince 3.34.1-1 → 3.	34.1-2	This update fixes a cras and drops it in evince w	sh which occurs when use vindow.	r drags selected text
3	Firefox 69.0.1 → 70.0	D.1	Fixed problems with ur	nscrollable popups.	
đ	GNOME Box 3.34.1-1.fc31	xes 1 → 3.34.1-1.fc31.1	Re-enable 'default' net	work dep for F31 GA, see	bz 1164492#c71

Click: Download

Activities	🕯 Softwar	re 🔻	Nov 22 06:10		1 🖤 🗗 🔻		
G		Explore	Installed	Updates 13	Ξ×		
Requires R	estart				Restart & Update		
\mathbf{x}	OS Updates		Includes performance,	stability and security im	provements.		
đ	Boxes 3.34.1-1.fc3	1 → 3.34.1-1.fc31.1	Re-enable 'default' network dep for F31 GA, see bz 1164492#c71				
14	Calendar 3.34.1 → 3.34	4.2	gnome-calendar 3.34.2 crashers	? release: * Updated tra	nslations * Fix various		
	Evince 3.34.1-1 → 3.	.34.1-2	This update fixes a cras and drops it in evince w	sh which occurs when us indow.	ser drags selected text		
6	Firefox 69.0.1 → 70.	0.1	Fixed problems with ur	scrollable popups.			

Click: Restart & Update

Step 035 – Create Fedora 31 Workstation VM



Click: Restart & Install



Progress...



Click: Oracle Developer



Password: Oracle Developer password

Click: Sign In

Launch a terminal window

On Fedora, VirtualBox Guest Additions are available as an RPM, so installation is simple:

Add some packages (to be able to install VirtualBox Guest Additions

We also eject the Fedora 31 Workstation CDROM

[oracledeveloper@fedora31developer ~]\$ sudo su -

We trust you have received the usual lecture from the local System Administrator. It usually boils down to these three things:

Step 035 – Create Fedora 31 Workstation VM

#1) Respect the privacy of others.
#2) Think before you type.

#3) With great power comes great responsibility.

```
[sudo] password for oracledeveloper: {oracle developer password}
[root@fedora31developer ~]# dnf -y install kernel-headers kernel-devel gcc
make perl elfutils elfutils-devel elfutils-libelf-devel
. . .
Complete!
[root@fedora31developer ~]# exit
Logout
[oracledeveloper@fedora31developer ~]$ eject
[oracledeveloper@fedora31developer ~]$
```

```
Fedora 31 Developer [Running] - Oracle VM VirtualBox
                                                                                              X
File Machine View Input Devices Help
             Termina Optical Drives
Activities
                                                                                             -
                                                        .8
                                                                                          Å
                                                                                                 9
                       Audio
                       P Network
          Ð
                       Ø USB
                                                        31developer:~
                                                                              Q
                                                     .
                                                                                    =
                                                                                           ×
                       0
                           Webcams
                                                     ٠
          perl-Thread
          perl-Time-H 🔲 Shared Folders
          perl-Unicode 💾 Shared Clipboard
          perl-autodie 🛃 Drag and Drop
          perl-bignum
          perl-encodir 🔗 Insert Guest Additions CD image...
          perl-experimentat-0.020-439.ic31.noarch
          perl-inc-latest-2:0.500-14.fc31.noarch
          perl-local-lib-2.000024-7.fc31.noarch
          perl-srpm-macros-1-33.fc31.noarch
          perl-version-7:0.99.24-440.fc31.x86_64
          python-srpm-macros-3-49.fc31.noarch
          python3-pyparsing-2.4.0-2.fc31.noarch
          qt5-srpm-macros-5.12.5-1.fc31.noarch
          rust-srpm-macros-10-2.fc31.noarch
          sombok-2.4.0-10.fc31.x86_64
          systemtap-sdt-devel-4.2-0.20190827git8ffab23ff.fc31.x86_64
          xz-devel-5.2.4-6.fc31.x86_64
        Complete!
        [root@fedora31developer ~]# exit
        logout
         [oracledeveloper@fedora31developer ~]$ eject
         [oracledeveloper@fedora31developer ~]$
                                                                                            fedora
                                                                    🖸 💿 📜 🗬 🖉 🥅 🖳 🖳 🚰 🔯 🚫 💽 Right Ctrl
```

Devices => Insert Guest Additions CD Image...

Step 035 – Create Fedora 31 Workstation VM



Click: Run



Password: Oracle Developer password

Click: Authenticate



Do you wish to continue? [yes or no]

<mark>yes</mark>



Press Return

Cancel dialog box

Restart VM

Now, screen resizing works. Lots more screen real estate.