

# Fedora Linux in a virtual machine Installation

## Step 1:

On your Windows or macOS computer, download the latest ISO image for Fedora Workstation from [getfedora.org](https://getfedora.org).

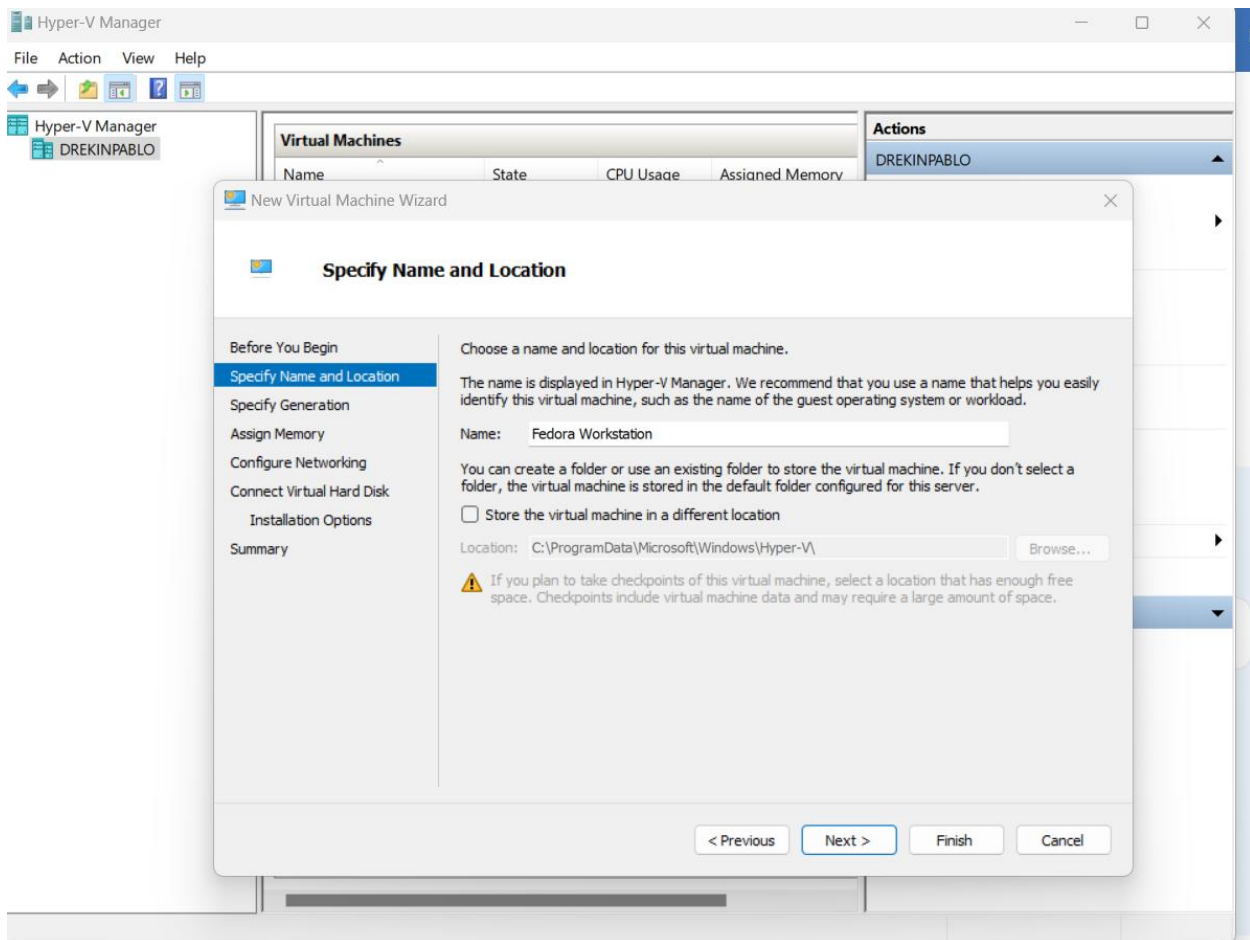
The screenshot shows the Fedora Workstation 41 download page. The browser address bar displays `fedoraproject.org/workstation/download`. The page header features the Fedora logo and navigation links for "Get", "Languages", and "Finish update". A "Recent download history" pop-up is visible, showing the file `Fedora-Workstation-Live-x86_64-41-1.4.iso` (2.3 GB) downloaded 7 minutes ago. The main content area is titled "Download Fedora Workstation 41" and includes a welcome message and the release date: Tuesday, October 29, 2024. Below this are links for "Documentation", "Release Notes", and "Community Support". The download options are categorized by system architecture:

- For Intel and AMD x86\_64 systems:** Fedora Workstation 41 Live ISO iso (with download icon)
- For ARM® aarch64 systems:** Fedora Workstation 41 Raw raw.xz (with download icon)
- For Power ppc64le systems:** Fedora Workstation 41 Live ISO iso (with download icon)

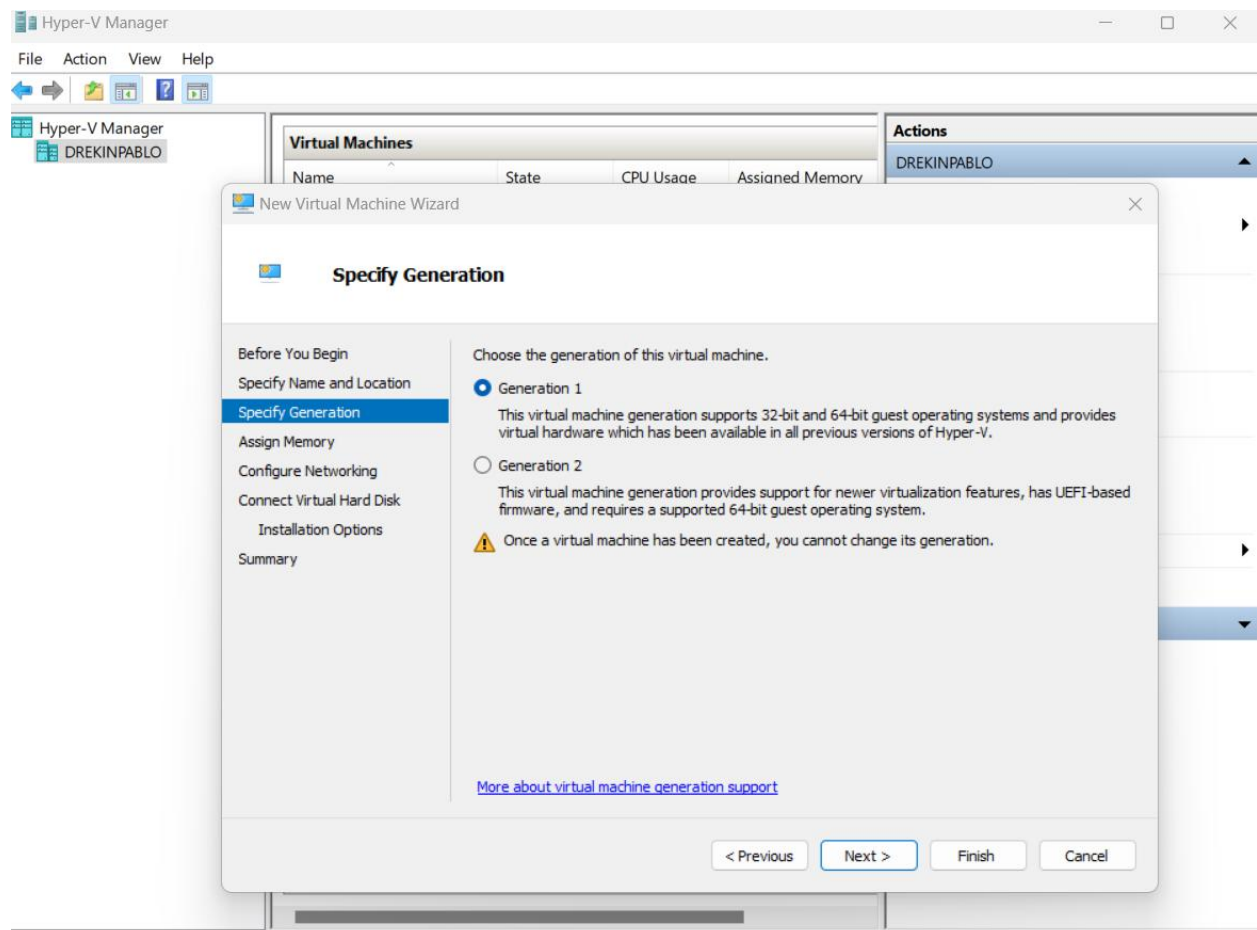
## Step 2 and 3:

Install a free hypervisor on your Windows or macOS system. For macOS on the Apple M1 platform, you can use UTM/Qemu ([mac.getutm.app](https://mac.getutm.app)). For Windows or macOS on the x64 platform, Oracle Virtualbox ([www.virtualbox.org/wiki/Downloads](https://www.virtualbox.org/wiki/Downloads)) is recommended, but you can instead use the native Hyper-V hypervisor on Windows. Refer to the free documentation on the hypervisor website to learn how to create a virtual machine using the hypervisor software.

In your hypervisor software, create a new virtual machine called Fedora Workstation that has 4GB of RAM, 64GB of virtual hard disk storage, and a connection to the Internet via the network interface in your computer. Insert the ISO image for Fedora into the virtual DVD of this virtual machine.



S



**Step 4: Start and then connect to your Fedora Workstation virtual machine. Press Enter to test your media and boot Fedora Live. Once the graphical desktop has loaded, select the option Install Fedora.**

New Virtual Machine Wizard

### Installation Options

Before You Begin  
Specify Name and Location  
Specify Generation  
Assign Memory  
Configure Networking  
Connect Virtual Hard Disk  
**Installation Options**  
Summary

You can install an operating system now if you have access to the setup media, or you can install it later.

☐ Install an operating system later

☒ Install an operating system from a bootable CD/DVD-ROM

Media

☐ Physical CD/DVD drive:

☒ Image file (.iso):

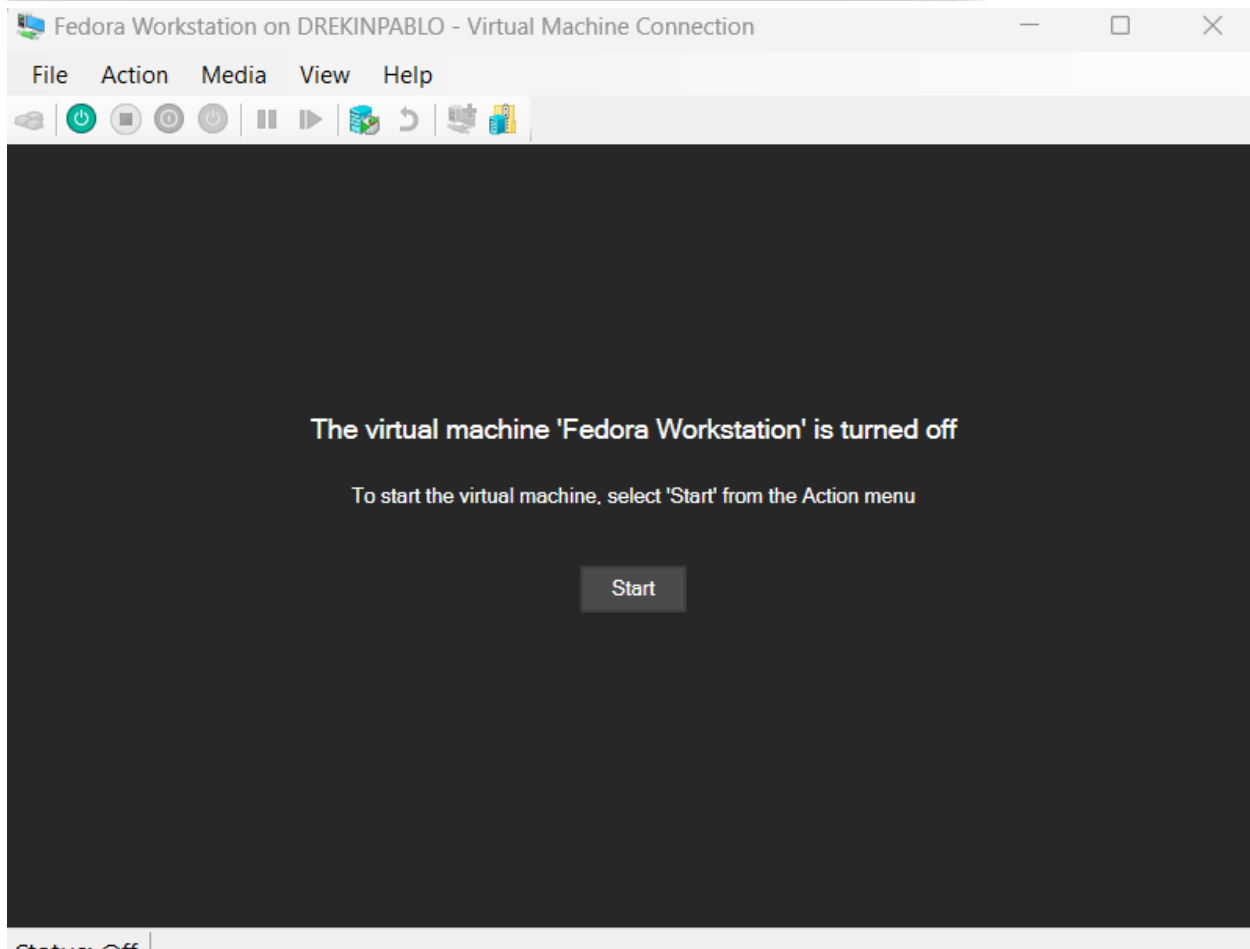
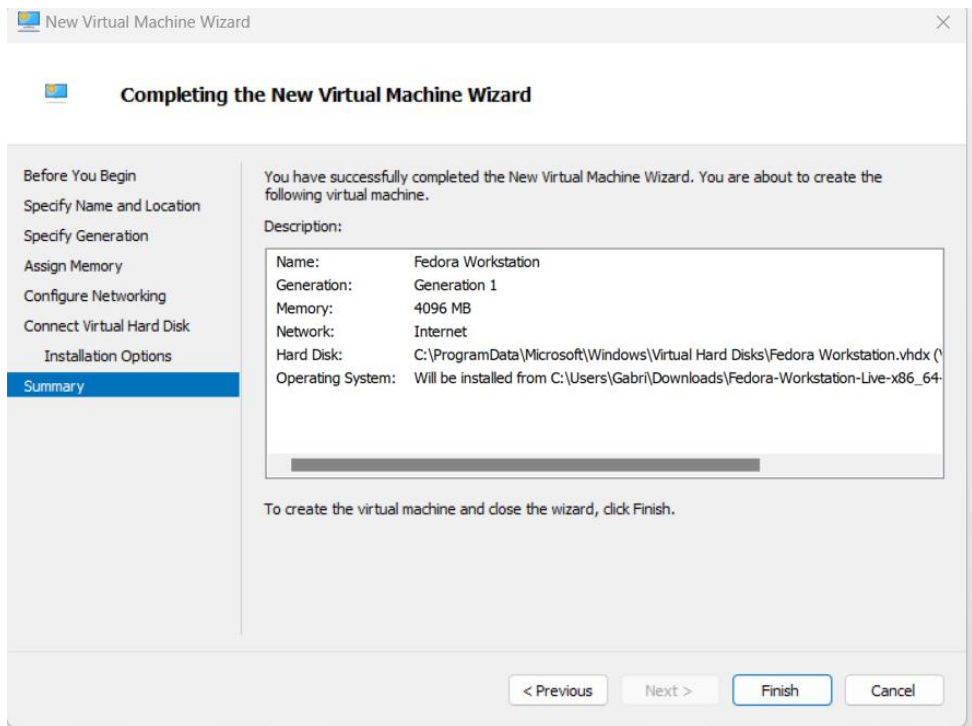
☐ Install an operating system from a bootable floppy disk

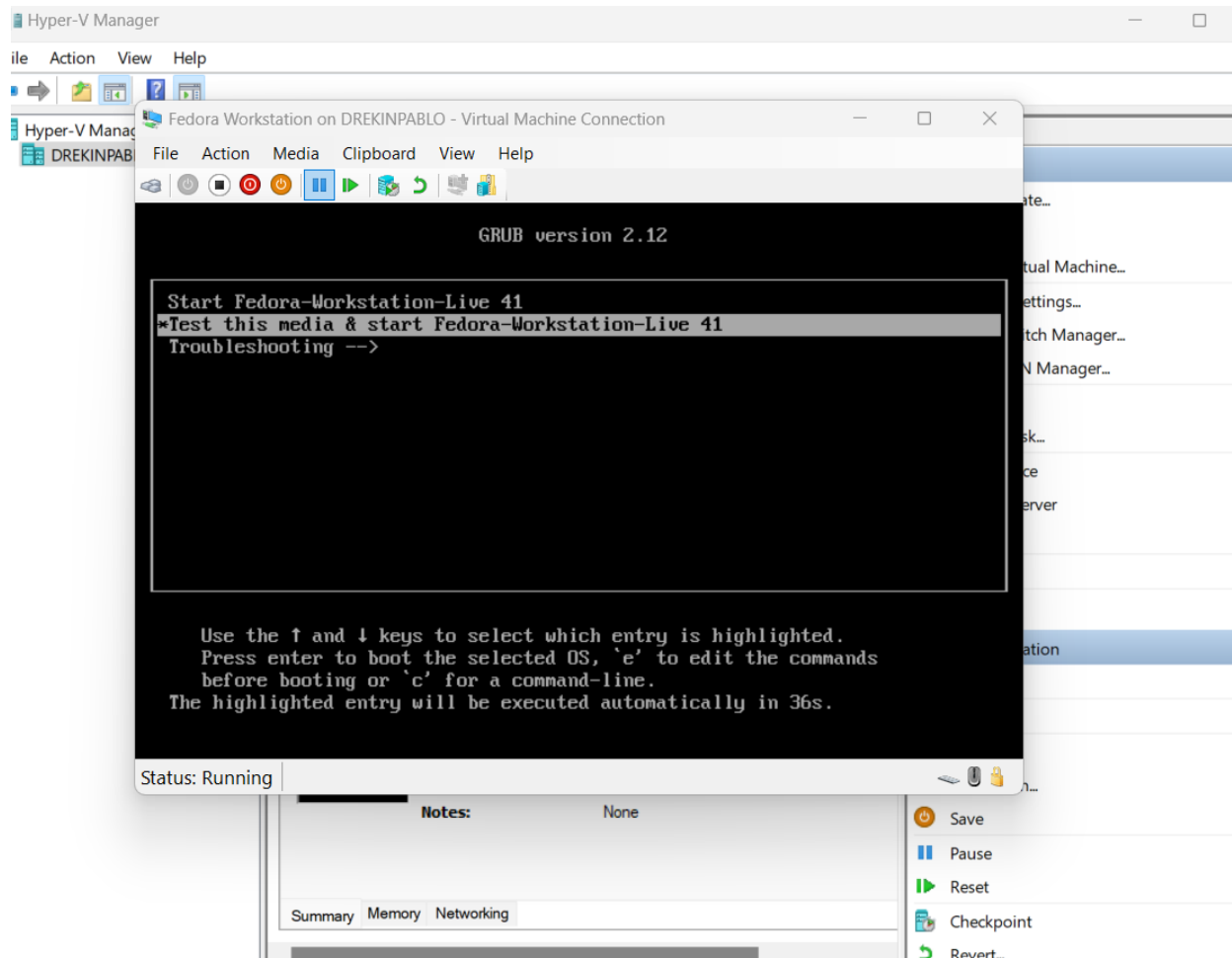
Media

Virtual floppy disk (.vfd):

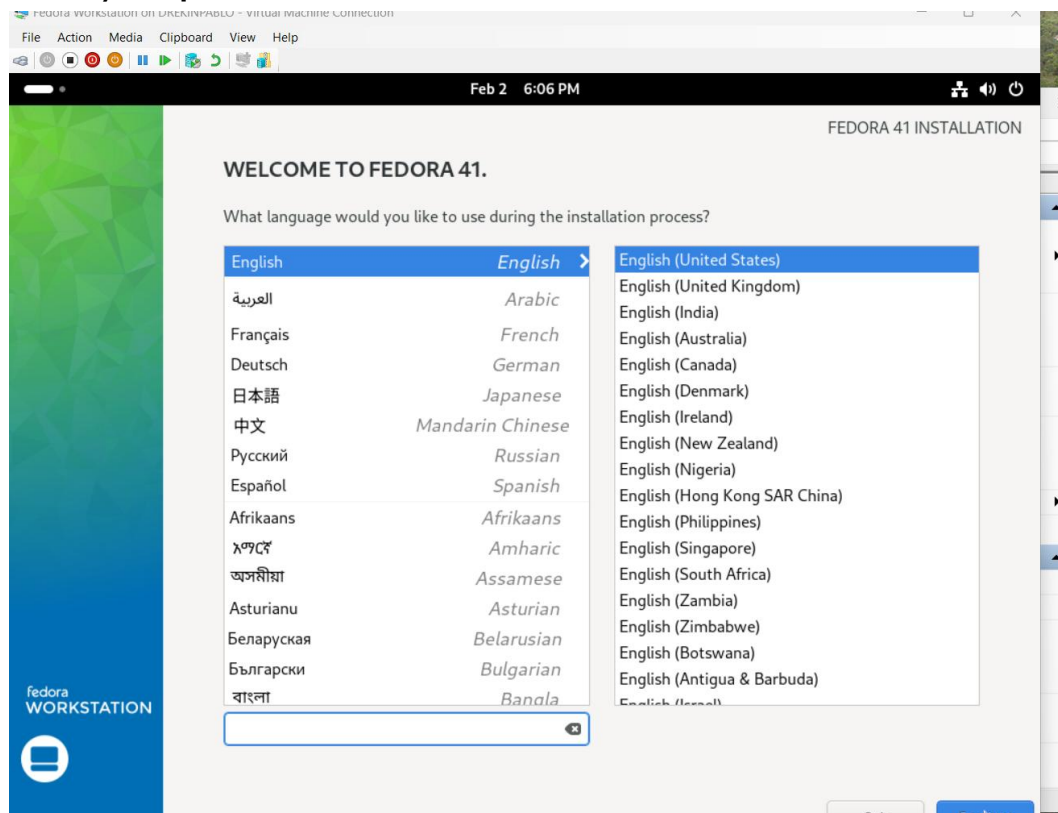
☐ Install an operating system from a network-based installation server

< Previous   Next >   Finish   Cancel

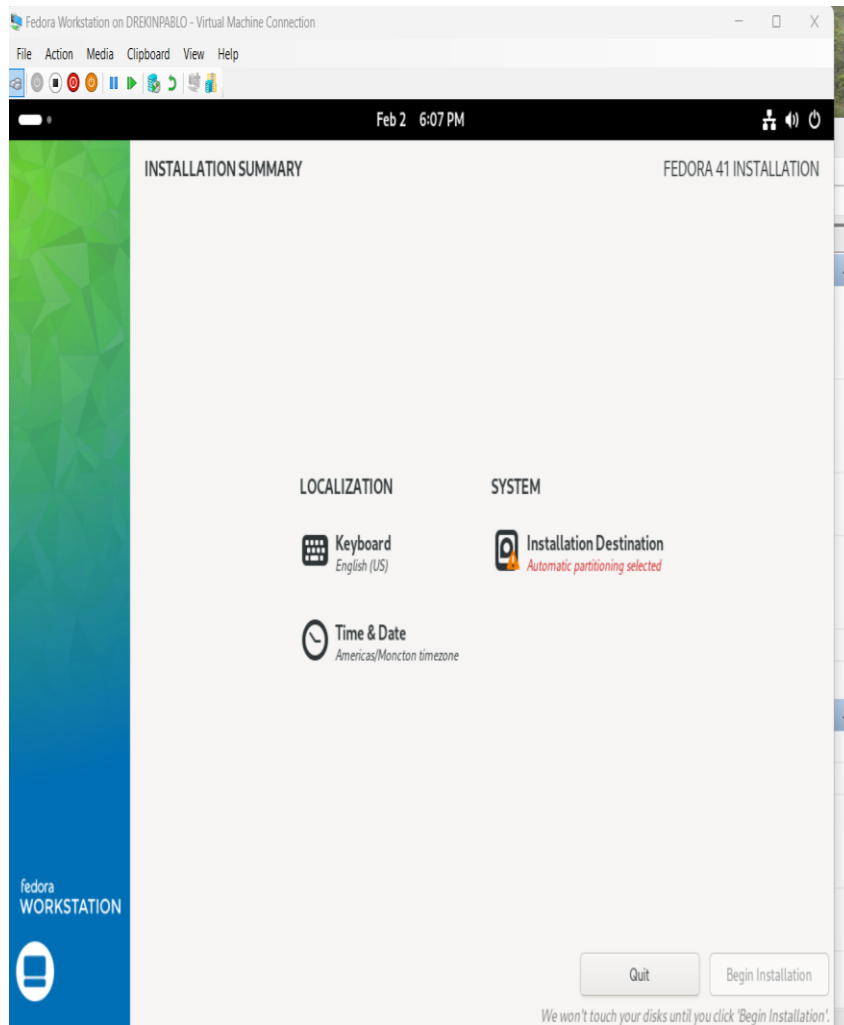




**Step5: After the Fedora Workstation installer has started, select English (United States) and press Continue.**

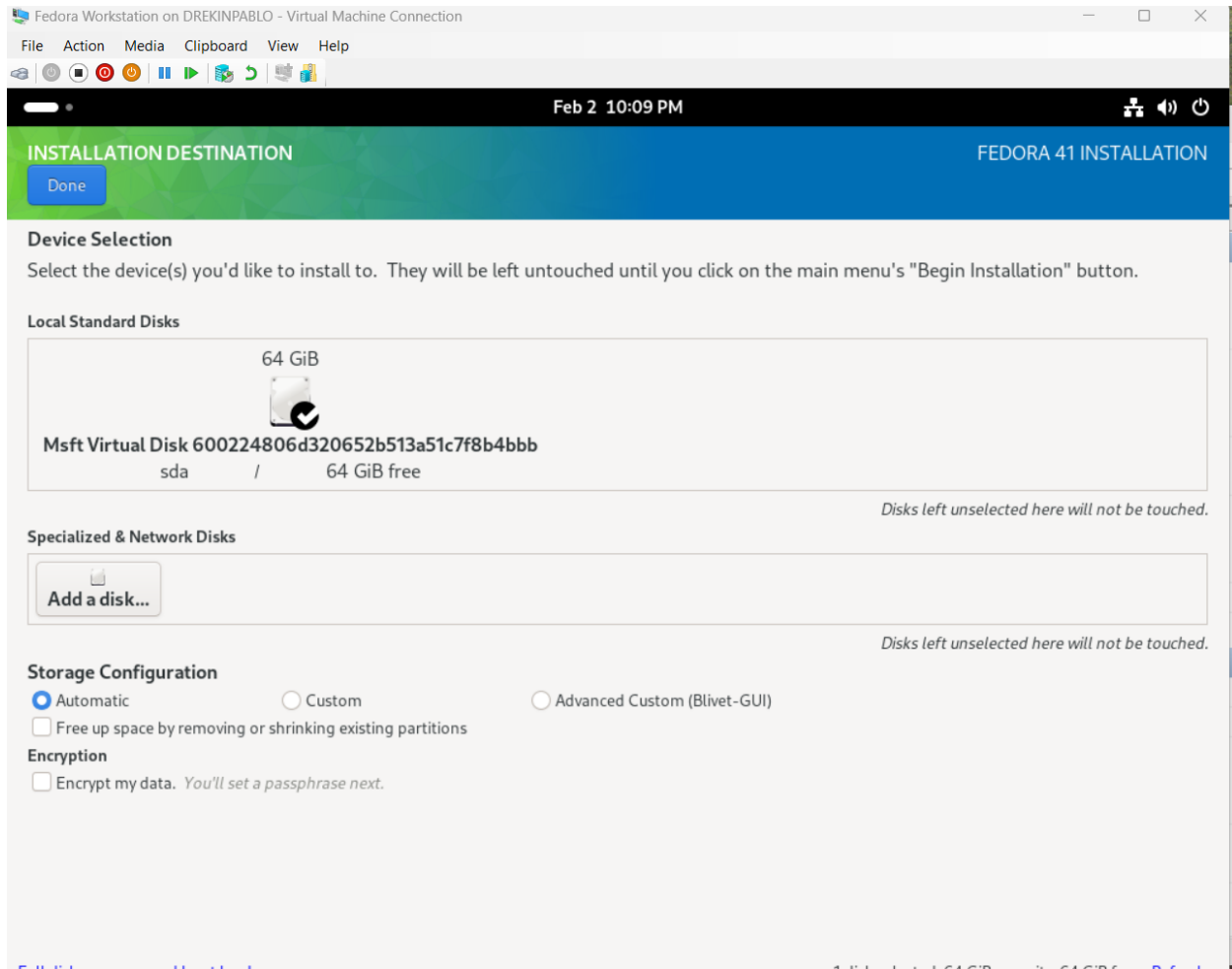


**Step 6 : If the time zone shown is incorrect, click Time & Date, choose the correct time zone (e.g. Americas/Toronto) and press Done**



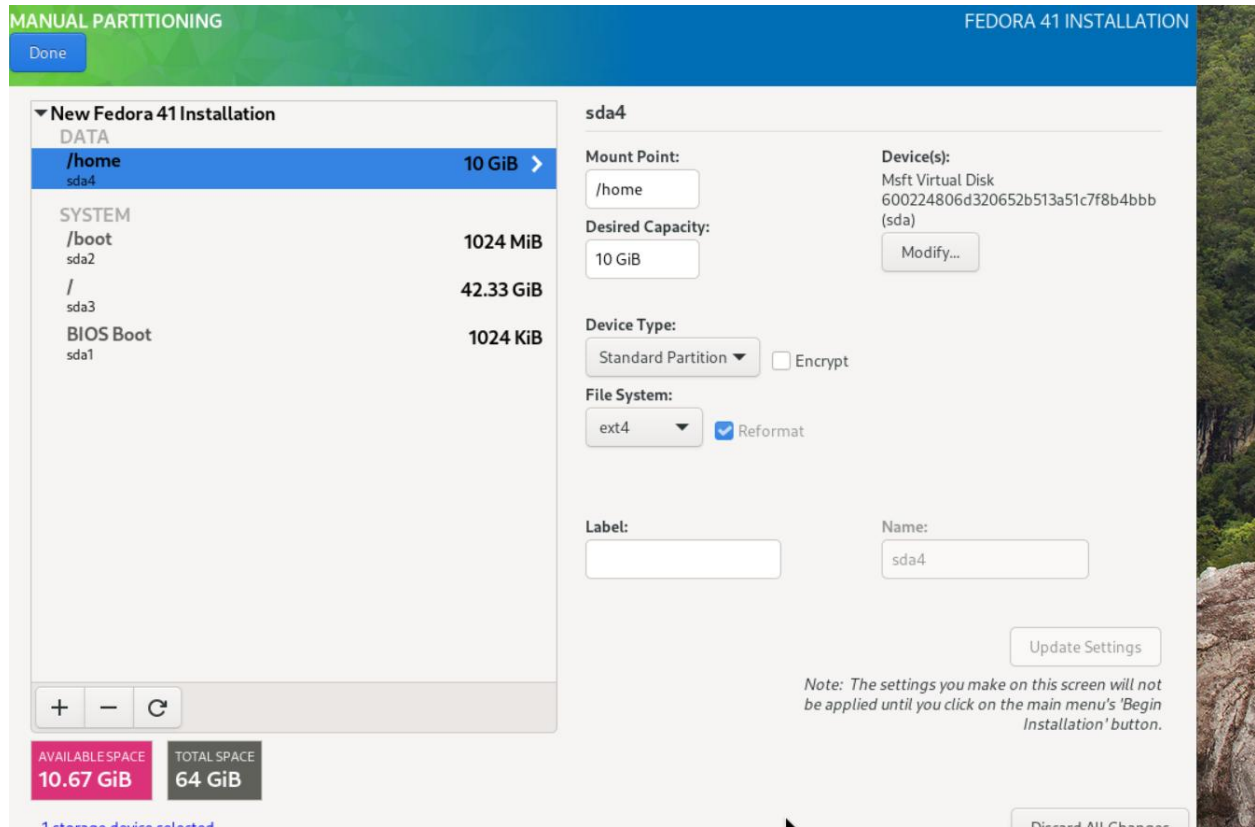


**7. Click Installation Destination. You should see that your 64GB virtual disk is already selected and called sda (or vda if using UTM/Qemu). Select Custom and press Done when finished. This will allow you to manually configure your partitions.**

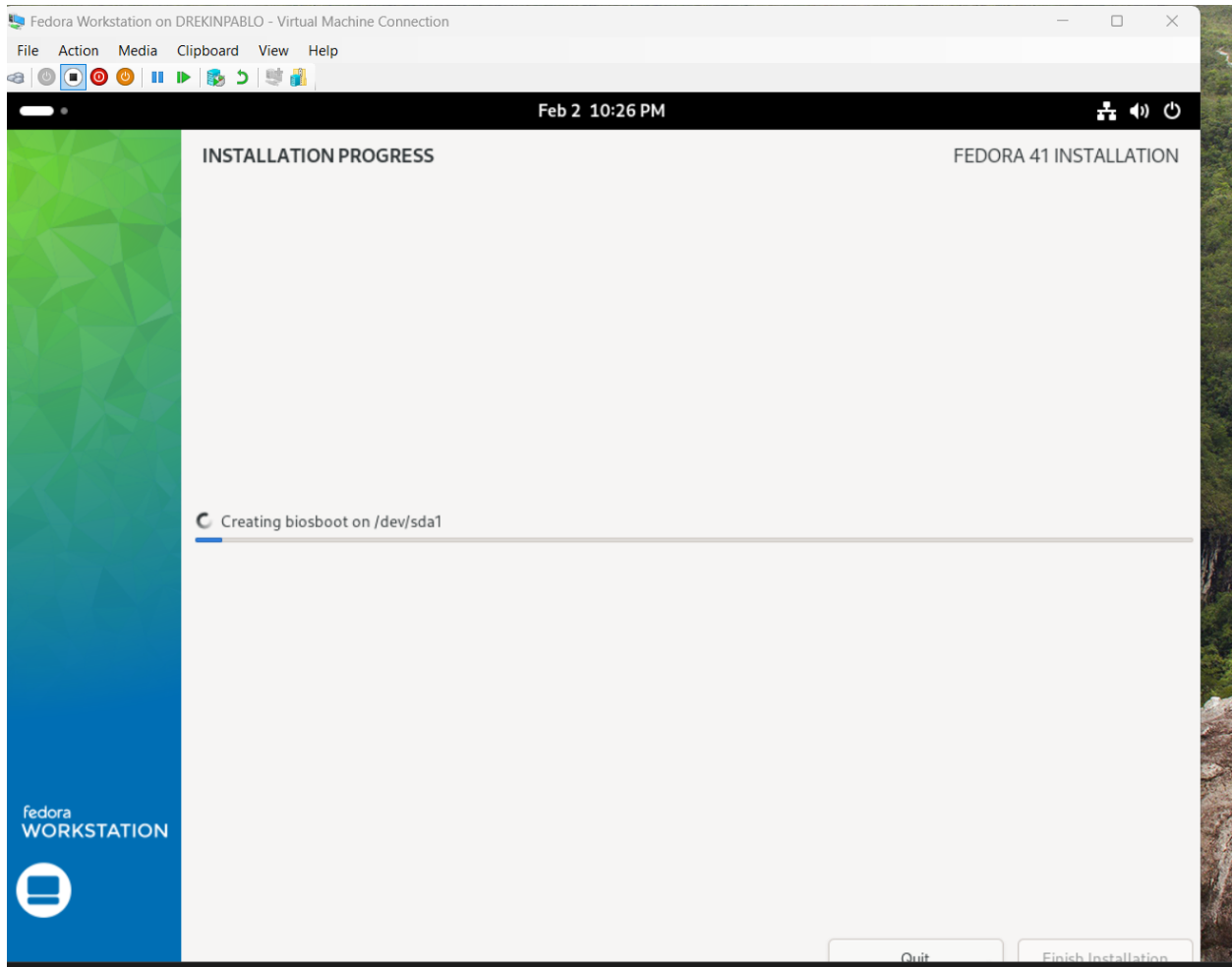


8. Choose a partitioning scheme of Standard Partition from the drop-down menu and click [Click here to create them automatically](#). This will create several partitions.

9. Highlight the /home (sda4) partition, reduce the Desired Capacity to 10GiB and click **Update Settings**. This will leave some free unpartitioned space on our first disk for a later exercise. Press **Done** and then click **Accept Changes** when prompted.



**10. Click Begin Installation. When the installation has finished, click Finish Installation. Click the power icon in the upper right corner, click the power icon from the menu, click Power Off. Click Power Off in the confirmation window to shut down your Fedora Live installation image. Close the Fedora Workstation window, if necessary.**

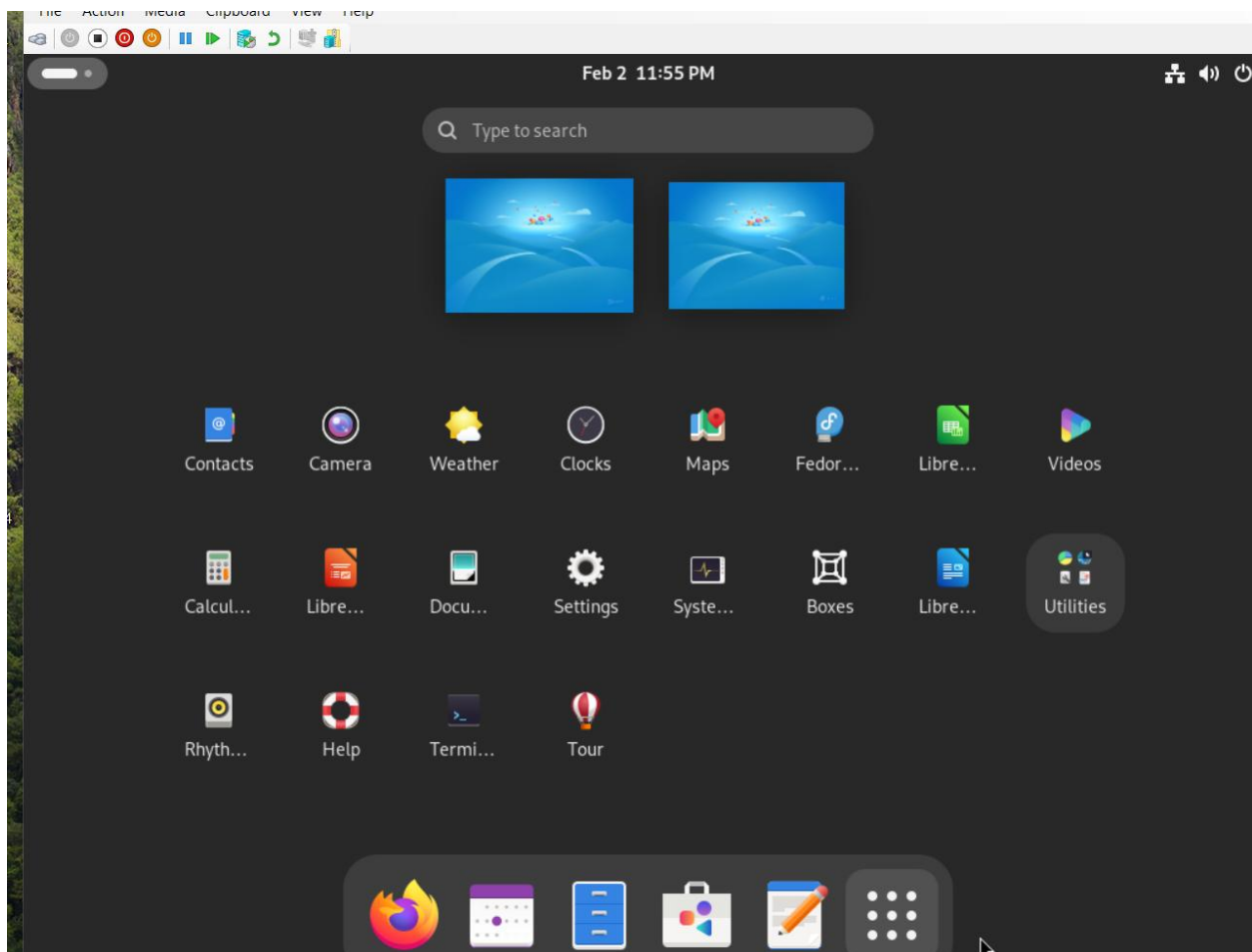


**11. In the settings for your virtual machine, remove the Fedora ISO image from the virtual DVD and start your newly-installed Fedora Workstation virtual machine.**

**12. On the first boot after installation, you must complete a Welcome wizard. Click Start Setup at this wizard and make the following selections when prompted: • Disable Location Services and Automatic Problem Reporting • Enable Third-Party Repositories • Skip associating your user with online accounts • Create a regular user called woot with a password of Secret555**

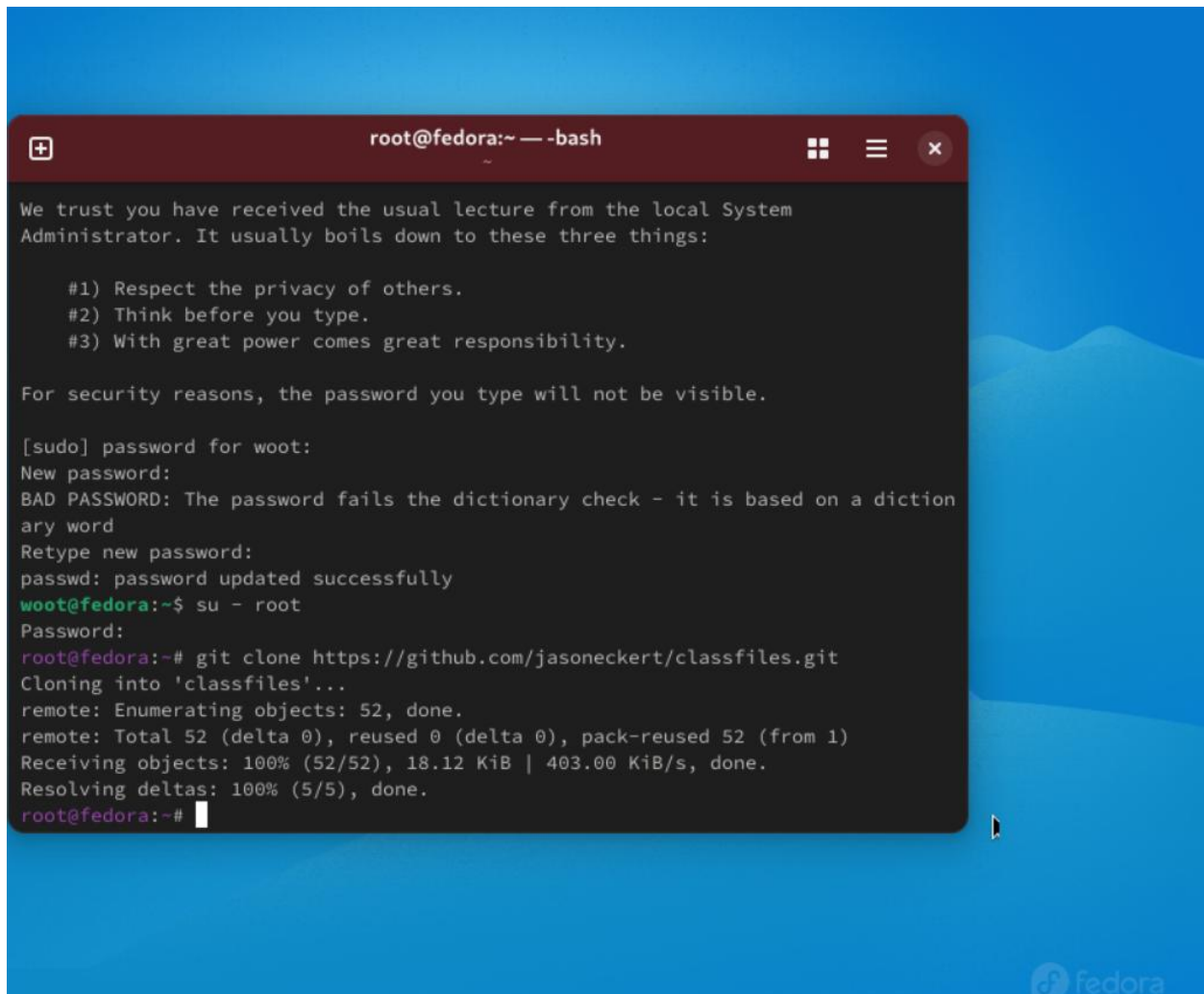
**13. At the Welcome to GNOME screen, click No Thanks when finished, and close the Getting Started window.**

**14. Open a terminal app by navigating to Activities > Show Apps (icon with 9 circles on bar at the bottom of the screen) > Terminal.**



15. Type `sudo passwd root` at the command prompt and press Enter. Next, enter the password for your woot user account (Secret555) and then enter a password of Secret555 for the root user when prompted (twice).

16. Type `su - root` and press Enter. Supply the root user's password of Secret555 when prompted. Next, type `git clone https://github.com/jasoneckert/classfiles.git` and press Enter. When finished, type `poweroff` to shut down your Fedora virtual machine.



```
root@fedora:~ — -bash

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

#1) Respect the privacy of others.
#2) Think before you type.
#3) With great power comes great responsibility.

For security reasons, the password you type will not be visible.

[sudo] password for woot:
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: password updated successfully
woot@fedora:~$ su - root
Password:
root@fedora:~# git clone https://github.com/jasoneckert/classfiles.git
Cloning into 'classfiles'...
remote: Enumerating objects: 52, done.
remote: Total 52 (delta 0), reused 0 (delta 0), pack-reused 52 (from 1)
Receiving objects: 100% (52/52), 18.12 KiB | 403.00 KiB/s, done.
Resolving deltas: 100% (5/5), done.
root@fedora:~#
```

