

How To Make Minecraft Server On Linux Distributions

Minecraft is a very popular game series that is available for Windows, Mac, and Linux. It can be played without any extra buffer or CPU load because it uses the sandbox tech on Linux. If you're a true fan of this game, you can use the Minecraft server to play this game with another player. Now, there are options that allow you to get the Minecraft server on your Linux system without doing anything but paying a number of dollars to a 3rd party software authority. Or, you can install and run your own Minecraft server on your Linux system to enjoy the freedom of gaming.

Minecraft Server on Linux System

Java is required to run Minecraft on Linux. Once the server has been installed on your Linux system you can create the Minecraft game and explore 3D Minecraft world. In this post, we will see how to install the Minecraft server on Debian/Ubuntu and Fedora/Red Hat Linux.

1. Install Minecraft on Ubuntu/Debian

Installing a Minecraft server on a Ubuntu server/desktop requires root access and an active internet connection. Here, we will see how to install java and run the Minecraft server through it on a Debian Linux system.

Step 1 - Create a new Minecraft user

If you're using a Ubuntu server or a Desktop, it will be wise to create a new user for the Minecraft server. To create a Minecraft account, use the below command.

We will be building the server over Java so we might also need to grant the new user root access. So, finally, switch to the newly created Minecraft user account to start installing the Minecraft server on your machine.

Step 2: Install Java on Ubuntu/Debian

Before you install Java on your system, make sure the system is updated. To update the system, use the following commands from the terminal shell.

To install Java version 8, run the following command in your terminal shell.

To verify that Java is installed, run a version check command after Java has been installed.

Step 3: Install a Screen for Minecraft

The screen is an application that allows you to run the Minecraft server on the system's background as a daemon. To install Screen, use the following command from your shell:

Step 4: Download Minecraft on Ubuntu/Debian

Minecraft server is available on their official website. We will use the wget command for downloading it to our system. But, first, make a directory for Minecraft and browse it. You can use either the terminal or manual commands to create the directory.

Before you run the following command, make sure that it is already installed on your system.

Run the following wget command on your terminal shell to download the java file of the Minecraft server for Linux.

2. Install Minecraft Server on Fedora Linux

Installing the Minecraft server on the Fedora workstation is almost similar to the method of installing it on Ubuntu, but there are a few changes in commands and steps. If you're a Fedora or Red Hat Linux user, this method will help you to install the Minecraft server on your machine.

Step 1: Create an account

To cause problems with your current server/desktop, you first need to add an account to your existing setup. We will then need to grant root access for installing Java.
minecraft servers

Run the following commands on your terminal shell to add user and allow sudo permission.

Run the following commands. This will grant root access permissions to the Minecraft user account. In Fedora, usually wheel manages the root access permissions.

Step 2: Install Java in Fedora Workstation

Now, as you're using the Minecraft user account, run the following DNF command on your terminal shell to install Java on the system.

After the installation is complete, run the version check command to verify that it has been installed correctly.

Step 3 - Install Screen and Set up Firewall

Before running the Minecraft server on a Linux machine, we should install the screen application to run it on the system's background. Run the below-mentioned DNF command on your shell to install the Screen application on your machine.

In optional, you can also run the S flag command to name the current Screen application as a Minecraft server.

To load a Minecraft server on a machine it is wise that we allow the TCP ports from Minecraft on our network. As the Minecraft server uses port 25565, the following firewall daemon commands will allow the Minecraft server on our Fedora network.

Step 4: Download Minecraft Server on Fedora Workstation

We've seen how to create a Minecraft user account, and how to install Java on your system. After that, it is time to download and execute the Minecraft server on our Fedora Linux.

First, run the following command to make a new dedicated directory for downloading the Minecraft server file.

Next, browse the directory and run wget to download the server file.

3. Execute Minecraft Server on Linux

When the download of the Minecraft server finishes, browse the directory and locate the file. This procedure is applicable to Fedora as well as Debina Linux distributions. First, run the following chmod command to grant the execution permission to the Minecraft server file.

We now need to edit End-user license agreement file (Eula), to agree with license file. This task can be completed using your favorite notepad editor with root access.

Write the following line in the script to save and close the script file after it opens.

Finally, run the following command on your terminal shell to start the Minecraft server on your Ubuntu Linux. As you can see the command is a NoGUI command. It will continue loading server in CLI mode.

In the above command, we've allocated 1024M total memory to load the server. If you have changed the memory amount, the Xmx can be modified.

Minecraft server is helpful and essential to load the Minecraft game series on a Linux-based system. In this post, we have seen how to install the Minecraft server on Debian and Fedora workstations. Please share this post with your friends and the Linux community if you find this post useful and informative. You can also comment on this post.