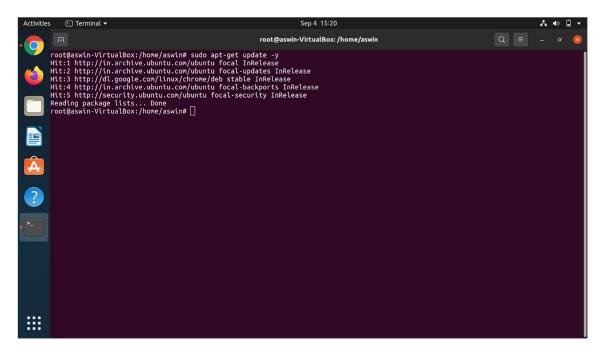
EXPIRIMENT-7:

Aim: Build and install software from source code, familiarity with make and cmake utilities expected.

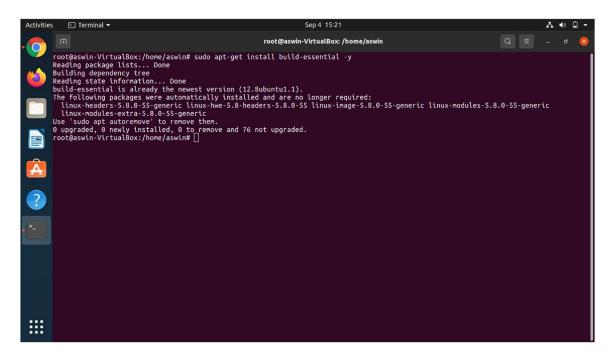
Solution:-

Step 1: Get the Server Ready

• As a best practice, make sure your packages are up to date:



• Next, you'll need to make sure you have a compiler available. Run this command to install build-essential:



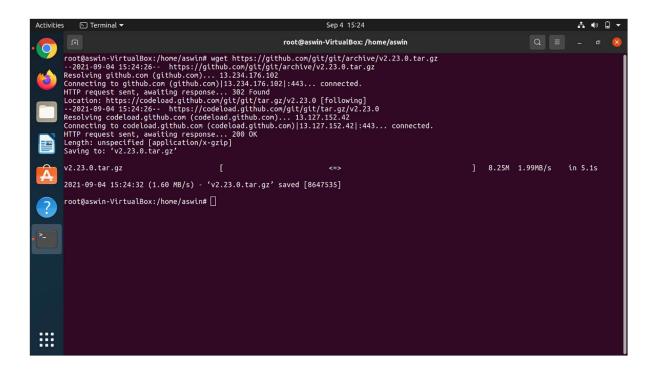
Step 2: Download Dependencies

• When installing a package from source code, you'll need to manage the installation of the package dependencies. We'll use apt-get to install git's dependencies:

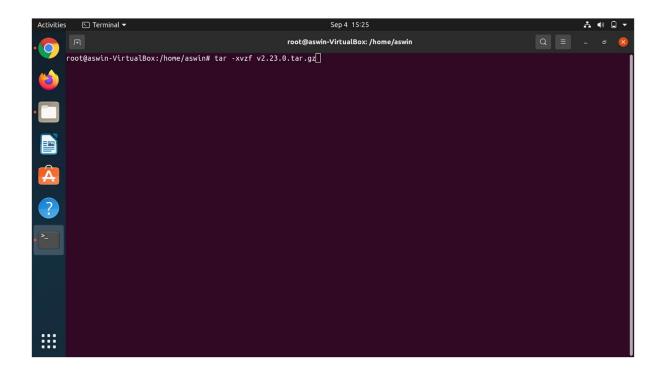


Step 3: Download the Source Package

• Once the package dependencies are in place, it's time to download the package with wget:



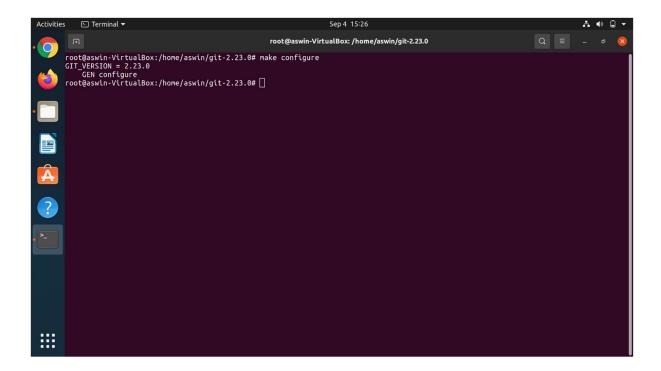
• Next, we need to extract the archive and cd (change directories) into the new git directory:



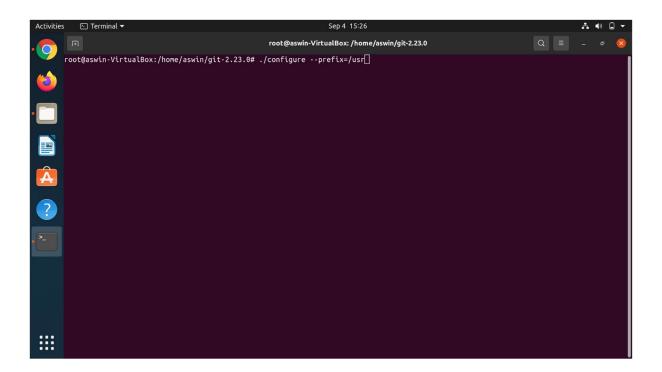


Step 4: Install Git

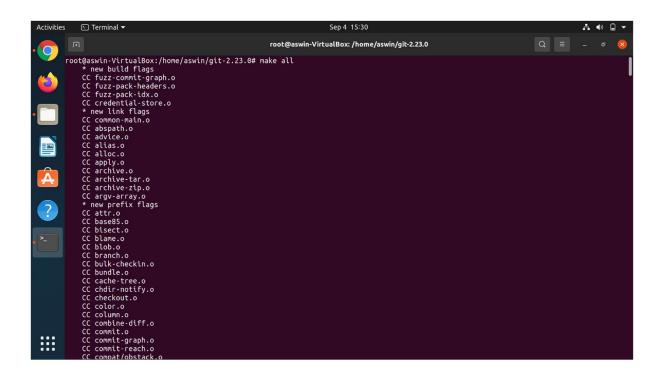
• Now that we have our package extracted and ready to go, we need to configure it:



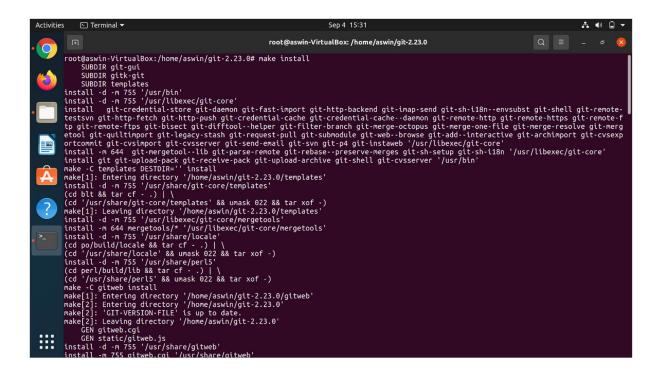
• Next, let's verify that all of the dependencies necessary to build the package are available by running this command:



• After that, we'll build the source code:



• Now that the binaries are all built, its time to install git:



• That's it! The last thing to do is to verify that git is working:

