**ZooKeeper** is an Apache Software Foundation project designed to simplify monitoring and managing group services. It uses a simple interface for its centralized coordination service that manages configuration, information, naming, distributed synchronization, and provisioning.

**Prerequisites**

* A Linux system running Ubuntu >20.04
* Access to a terminal window/command line (**Search**> **Terminal**)
* A user account with **sudo** or **root**privileges

**Installing Apache ZooKeeper on Ubuntu**

**Step 1: Installing Java**

ZooKeeper is written in Java and requires this programming language to work. To [check whether Java is already installed](https://phoenixnap.com/kb/check-java-version-linux), run the command:

$java --version

**Step 2: Creating a User for ZooKeeper**

1. Create a separate user for the ZooKeeper service by typing:

useradd zookeeper -m

The **-m** flag creates a home directory for the user. In this case, it will be /home/zookeeper. To name the user differently, replace *zookeeper* with the name of your choice.

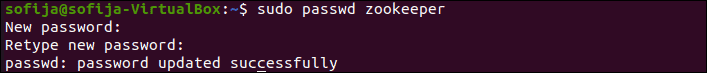
2. Next, set **bash**as the default shell for the new user with the command:

usermod --shell /bin/bash zookeeper

3. Set a password for the user:

passwd zookeeper

Type and retype a [strong password](https://phoenixnap.com/blog/strong-great-password-ideas) for the ZooKeeper user.



4. Then, [add the user to the sudoers group](https://phoenixnap.com/kb/how-to-create-sudo-user-on-ubuntu) for it to have sudo privileges:

usermod -aG sudo zookeeper

5. Check to verify that the user is now a superuser by listing the accounts in the sudoers group:

sudo getent group sudo

The output should display the user you created.

List members of sudo users.

**Step 3: Creating a ZooKeeper Data Directory**

Before installing ZooKeeper, create a directory structure where it can store configuration and state data (on a local disk or remote storage).

To store the data on the local machine, first create a new ZooKeeper directory by running:

sudo mkdir -p /data/zookeeper

Then, give the ZooKeeper user ownership to that directory:

chown -R zookeeper:zookeeper /data/zookeeper

**Step 4: Downloading and Installing ZooKeeper**

1. Open a web browser of your choice and navigate to the [Apache ZooKeeper Download Page](https://zookeeper.apache.org/releases.html). The latest stable release appears at the top of the page. Click on the version you want to install to open the [Apache](https://phoenixnap.com/glossary/what-is-apache) download mirrors.

3. Go back to the command line and move to the **/opt** directory:

cd /opt

4. Use the **wget** command to download the .**tar** file. Paste the link copied from the official Apache web page:

sudo wget https://downloads.apache.org/zookeeper/zookeeper-3.9.1/apache-zookeeper-3.9.1-bin.tar.gz

5. Extract the file by running:

sudo tar -xvf apache-zookeeper-3.9.1-bin.tar.gz

6. Rename the extracted file to **zookeeper** with the command:

mv apache-zookeeper-3.9.1-bin zookeeper

7. Give the zookeeper user ownership of that file by running:

chown -R zookeeper:zookeeper /opt/zookeeper