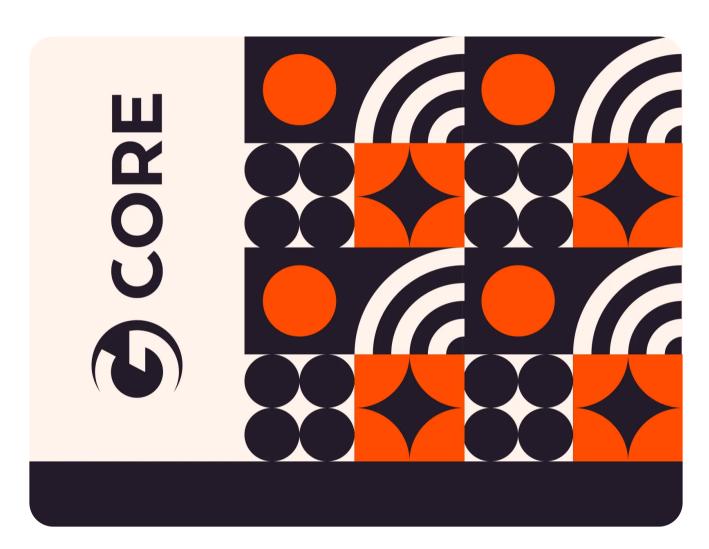# How to Install Docker Compose on Linux

October 11, 2023 • 2 min read

Docker Compose simplifies the process of managing **multi-container Docker applications**, making it an indispensable tool for developers and sysadmins alike. If you're on a Linux system and looking to harness the power of orchestrated Docker containers, you're in the right place. In this guide, we'll walk you through a step-by-step installation of Docker Compose on Linux, setting the stage for more efficient container management.

What is Docker Compose

Docker Compose is a tool for defining and running multi-container Docker applications. To understand its significance and value, let's delve deeper into Docker Compose with a few key points:

1. **YAML Configuration.** With Docker Compose, you define the services, networks, and volumes for your application in a docker-compose.yml file. This file serves as a blueprint for how Docker should build and run your multi-container application.

2. **Simplicity.** Instead of using numerous docker commands to start each individual container and set networks, environments, mounts, etc., you can define everything in the Compose file and then use a few Compose commands to get everything up and running.

3. **Reproducibility.** By defining your application's structure and services in a Compose file, you ensure that it can be consistently reproduced across various environments.

4. **Local Development & Testing.** Docker Compose is often used in development and testing environments to replicate production setups. Developers can ensure that their applications run in the same way locally as they would in a production environment.

5. **Integration with Docker Stack.** Docker Compose files can be used by Docker Stack in swarm mode, allowing you to deploy your Compose applications to a Docker Swarm cluster.

Process for Installing Docker Compose on Linux

Streamlining the management of multi-container Docker applications on Linux requires the right tools, and Docker Compose stands out as a game-changer in this realm. Here's a step-by-step guide on how to install Docker Compose on Linux.

#1 Ensure Docker is Installed

Before you can use Docker Compose, Docker itself must be installed.

```
docker --version
```

Sample Output:

```
Docker version 20.xx.x, build xxxxxxxx
```

#2 Download the Latest Docker Compose Binary

You'll use the **curl** command to download the Docker Compose binary from Docker's GitHub repository.

```
sudo curl -L
"https://github.com/docker/compose/releases/download/1.29.2/docker-
compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
```

#3 Set Execution Permissions

After downloading, set the appropriate permissions to make the binary executable.

```
sudo chmod +x /usr/local/bin/docker-compose
```

#4 Verify Installation

Confirm that Docker Compose was installed correctly.

```
docker-compose --version
```

#5 Enable Command-line Completion (Optional)

Install command completion for the **bash** and **zsh** shell. Here, we'll cover bash (commonly used shell). If you're using another shell, check

the Docker Compose documentation for specifics.

```
 sudo curl -L
https://raw.githubusercontent.com/docker/compose/1.29.2/contrib/completion/bash
compose -o /etc/bash_completion.d/docker-compose
```

Once installed, start a new shell session to activate command completion.

Congratulations, you're now able to install Docker Compose on Linux. With Docker Compose installed, you can define and run multi-container applications with ease. Remember to check the Docker Compose GitHub releases page or the official documentation for updates and changes.

Conclusion

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