











How To Dev Linux Tutorials

Install Zipkin distributed tracing system on Ubuntu / Debian / CentOS

In this tutorial, we'll walk through installing and starting an instance of Zipkin tracing system on Ubuntu / Debian / CentOS Linux distributions. Zipkin is a distributed tracing system designed to help you gather timing data needed to $\,$ troubleshoot latency problems in microservice architectures. It manages both the collection and lookup of this data. Its design is based on the Google Dapper paper.



There are three options of running Zipkin tracing system:

- Using Java (jar file)
- Running in Docker Container
- Running from source.

In this guide, we will consider the first two options – Using Java and Docker. So let's

Install Zipkin distributed tracing system using Docker

The easiest and quickest way of running Zipkin is via Docker.

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Once Docker is installed, spin a Zipkin Docker container.



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Install Zipkin distributed tracing system using Java

This method will use distributed Java jar file to run Zipkin tracing system on Ubuntu / Debian and CentOS system

Step 1: Install Java











Install Java on CentOS 7:

```
sudo alternatives --config java
```

Step 2: Install Zipkin on Ubuntu / Debian / CentOS

Once you have Java 8 or higher installed, fetch the latest release of Zipkin as a selfcontained executable jar:

To run Zipkin, just execute the command:

\$ java -jar zipkin.jar

Sample output:

Step 3: Configure Systemd

Running Zipkin with the <code>java -jax</code> command will not persist system reboots. If your system has support for systemd, you can create service for it.

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Move jar file to /opt directory.

sudo mkdir /opt/zipkin

Start by creating a system group for the user:

udo groupadd -r zipkin

2. Create Systemd Service

We can now create a systemd service file to manage our application.









```
Zipkin System Service
```

Memory limits can be set like this:

Where $\frac{-Xms128m}{}$ and $\frac{-Xmx256m}{}$ are used to set the minimum and maximum memory that the application can use.

3. Inform systemd about the new service addition.

```
sudo systemctl daemon-reload
```

4. Once reloaded, start the service

```
sudo systemctl start zipkin.service
```

5. To check the status, use:

```
sudo systemctl status zipkin.service
  Active: active (running) since Sat 2019-04-06 06:35:18
UTC; 8s ago
     Docs: https://zipkin.io/
```

See screenshot below.

Step 4: Access Zipkin Web UI

Zipkin provides a nice interface for viewing traces based on service, time, and annotations. Browse to http://your_host:9411 to access Zipkin Web UI and find traces!.

Note: There is no built-in authentication in the UI. Zipkin UI can be secured by running it behind an authenticating proxy like Apache HTTPD, Nginx. Check running Zipkin behind Apache reverse proxy notes.

Step 5: Configure Tracers and Instrumentation

You have installed and Configured Zipkin, the last requirement is the configuration

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