SimpleTimeService - Deployment Guide

The following documentation will guide you through the steps needed to clone the repository, set up the environment, and run the container.

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Prerequisites

Before you can deploy the **SimpleTimeService** container, ensure you have the following tools installed on your local machine:

- 1. **Docker**: Docker will be used to build and run the container.
- 2. Git: Git will be used to clone the repository.

Tools Installation

1. Install Docker

Follow the instructions to install Docker:

- Docker Installation Guide: https://docs.docker.com/get-docker/
- If you are using Ubuntu OS: sudo apt update && apt install docker.io
 (Or simply "sudo snap install docker")

```
ubuntu@ip-172-31-16-15:~$ sudo apt install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
docker.io is already the newest version (26.1.3-0ubuntul~24.04.1).
0 upgraded, 0 newly installed, 0 to remove and 76 not upgraded.
ubuntu@ip-172-31-16-15:~$
```

2. Install Git

Follow the instructions to install Git:

- If you are using Ubuntu OS: sudo apt install git
- Git Installation Guide: https://git-scm.com/book/en/v2/Getting-Started-Installing-Git

```
ubuntu@ip-172-31-16-15:~$ sudo apt install git
Reading package lists.. Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.2).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 76 not upgraded.
ubuntu@ip-172-31-16-15:~$ ■
```

Repository Setup

Clone the repository to your local machine:

git clone https://github.com/haneeshjallipalli/SimpleTimeService.git cd SimpleTimeService

```
ubuntu@ip-172-31-16-15:-$ git clone https://github.com/haneeshjallipalli/SimpleTimeService.git
Cloning into 'SimpleTimeService'...
remote: Enumerating objects: 34, done.
remote: Counting objects: 100% (34/34), done.
remote: Compressing objects: 100% (24/24), done.
remote: Compressing objects: 100% (24/24), done.
remote: Total 34 (delta 4), reused 27 (delta 1), pack-reused 0 (from 0)
Receiving objects: 100% (34/34), 17.79 MiB | 33.73 MiB/s, done.
Resolving deltas: 100% (4/4), done.
abuntu@ip-172-31-6-15:-$;
SimpleTimeService
abuntu@ip-172-31-16-15:-$;
deltas: Cd SimpleTimeService
abuntu@ip-172-31-16-15:-/SimpleTimeService$ ls
Dockerfile README.md jars mvnw mvnw.cmd pom.xml src
abuntu@ip-172-31-16-15:-/SimpleTimeService$ []
```

This will pull the project files and move you into the project directory.

Running the Docker Container

Once the repository is set up locally, you can run the **SimpleTimeService** container.

1. Build the Docker Image

If you have a custom Dockerfile or want to ensure you have the latest build, use the following command to build the Docker image locally:

sudo docker build -t simpletimeservice .

```
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```

This will build the image using the Dockerfile in the root of the repository and tag it as simpletimeservice.

2. Run the Docker Container

To run the **SimpleTimeService** container in detached mode, use the following command:

sudo docker run -d -p 80:80 simpletimeservice

```
ubuntu@ip-172-31-16-15:-/SimpleTimeService$ sudo docker run -d -p 80:80 simpletimeservice
bf8742f56e7e38lb666fc4b59ad872d548a04b39e3b2e0c99b9d56222acb1650
ubuntu@ip-172-31-16-15:-/SimpleTimeService$ sudo docker images
REPOSITORY TAG IMMAGE ID CREATED SIZE
simpletimeservice latest 9353ba56db09 3 minutes ago 449MB
openjdk 17-jdk-slim 37cb4452ld04 2 years ago 408MB
ubuntu@ip-172-31-16-15:-/SimpleTimeService$ sudo docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS
NAMES
bf8742f96e7e simpletimeservice "java -jar /app/app..." 14 seconds ago Up 14 seconds 0.0.0.0:80->80/tcp, :::80->80/tcp vigilant_
carson
ubuntu@ip-172-31-16-15:-/SimpleTimeService$ []
```

This command does the following:

- -d: Runs the container in detached mode (in the background).
- p 80:80: Maps port 80 on the host to port 80 on the container.
- Simpletimeservice is the docker image name

The container should now be running and accessible on port 80.

Accessing the Service

Once the container is up and running, you can access the **SimpleTimeService** by opening your browser and navigating to:

http://localhost:80



Live demo: simpletimeservice.haneesh.cloud

You should see a simple response indicating that the service is running and serving the current time or similar functionality based on your container's configuration.

Additional Information

- Docker Documentation: https://docs.docker.com/
- Docker Hub haneeshdevops/simpletimeservice: https://hub.docker.com/repository/docker/haneeshdevops/simpletimeservice

This documentation should guide you through the process of setting up and running the **SimpleTimeService** container. If you have any questions or run into issues, feel free to open an issue on the <u>GitHub repository</u>.