

Docker : Docker MasterClass for DevOps

Create a Docker Compose File



Docker : Service Containers

- Docker Compose is a tool for defining and running multi-container Docker applications.
 - It allows you to define an entire application stack, including services, networks, and volumes, in a single file called '**docker-compose.yml**'.
- key concepts and components of a Docker Compose file:
- **Version** : The version of the Docker Compose file syntax. This version indicates which features and syntax are supported.

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- **Services** : This section defines the various containers (services) that make up your application. Each service has a **name**, and under each service, you can configure parameters such as the Docker image to use, environment variables, ports to expose, volumes to mount, and more.

```
services:
  web:
    image: nginx:latest
    ports:
      - "80:80"
```

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- **Volumes** : This section allows you to define named volumes or bind mounts for your services. Volumes are used to persist data between container restarts.

```
volumes:  
  data-volume:
```

- **Networks** : This section lets you define custom networks and connect services to them. This is useful for controlling communication between services.

```
networks:  
  custom-network:
```

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- **Environment Variables** : You can set environment variables for your services using the 'environment' key. This is useful for configuring your applications dynamically.

```
environment:  
  - NODE_ENV=production
```

- **Ports** : This key allows you to map ports from the host to the container. This is essential for accessing services from outside the Docker environment.

```
ports:  
  - "8080:80"
```

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- **Command** : This key lets you override the default command for the container. This is useful when you need to specify how the container should start.

```
command: npm start
```

Thank You...

Don't be the Same! Be Better!!!
