Docker Compose

What is Docker Compose?

Make your development environments:

- Repeatable
- Isolated
- Fast

Install Docker-Compose

- **Install python-pip:**

  $ sudo yum -y install python-pip

Install Docker Compose:

$ sudo pip install docker-compose

What is Docker Compose?

- Define and run multi-container applications
- Specify images and configuration in a simple YAML file:

  docker-compose.yml

- One command to get it all running:

  $ docker-compose up

Sample Hello-World

docker-compose.yml

```
my-test:
    image: hello-world
```

```
$ docker-compose up
```

What is Docker Compose?

docker-compose up:

- Builds images from Dockerfiles
- Pulls images from registries
- Creates and starts containers
- Streams their logs

Docker-Compose Commands:

- **docker-compose up**

  starts up all the containers.

- **docker-compose ps**

  checks the status of the containers managed by docker compose.

- **docker-compose logs**

  outputs colored and aggregated logs for the compose-managed containers.

- **docker-compose stop**

  stops all the running containers without removing them.

- **docker-compose rm**

  removes all the containers.

- **docker-compose build**

  rebuilds all the images.

Sample Compose file:

```
version: '2'

services:
   db:
     image: mysql:5.7
     volumes:
       - db_data:/var/lib/mysql
     restart: always
     environment:
       MYSQL_ROOT_PASSWORD: wordpress
       MYSQL_DATABASE: wordpress
       MYSQL_USER: wordpress
       MYSQL_PASSWORD: wordpress

   wordpress:
     depends_on:
       - db
     image: wordpress:latest
     ports:
       - "80:80"
     restart: always
     volumes:
       - /var/www/html:/var/www/html:rw
     environment:
       WORDPRESS_DB_HOST: db:3306
       WORDPRESS_DB_PASSWORD: wordpress
volumes:
     db_data:
```