

Docker...?

Do čega?



Nemanja Cimbalević
@bikcrveni

#WCNiS

Aplikacije u kontejnerima

Mikroservisi

Kubernetes

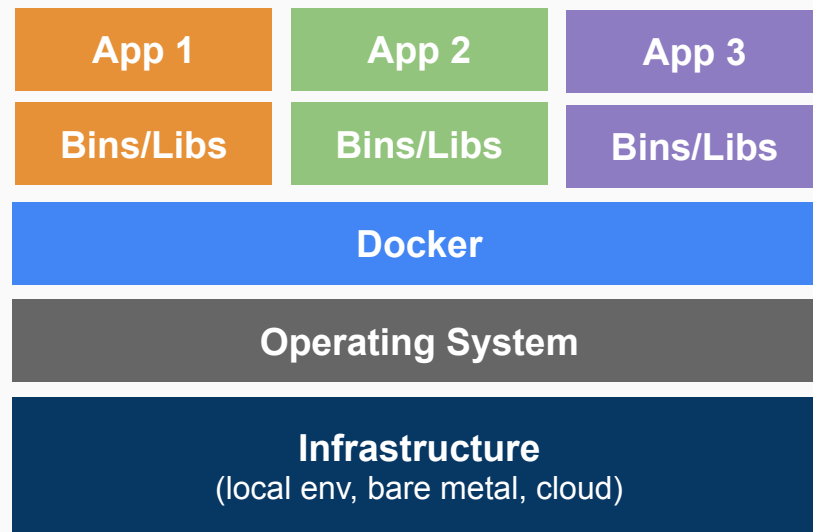
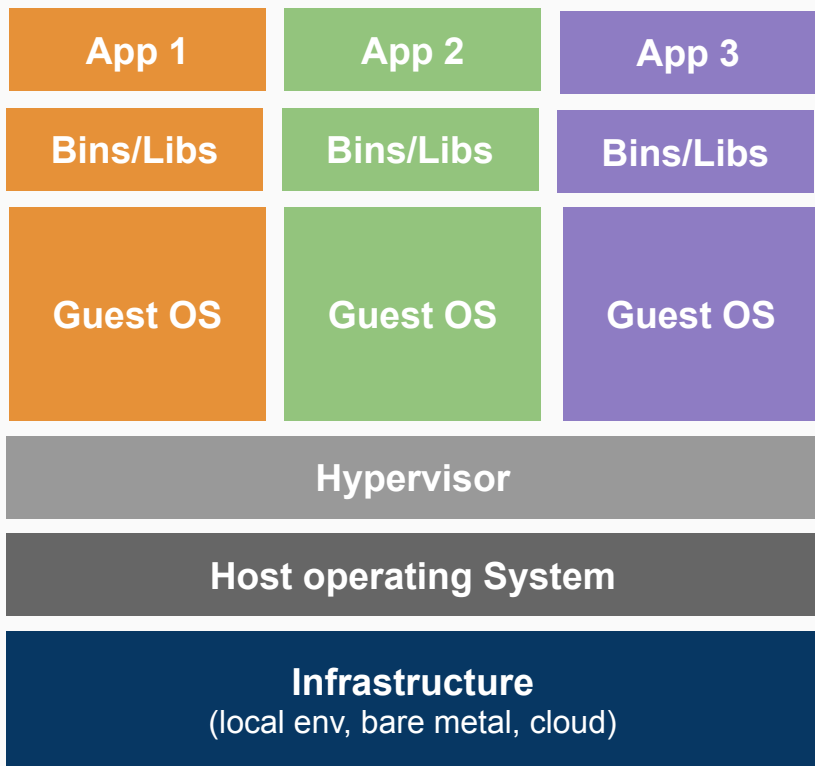
Swarm (Swarm)

Razvojno okruženje
kao produkcija

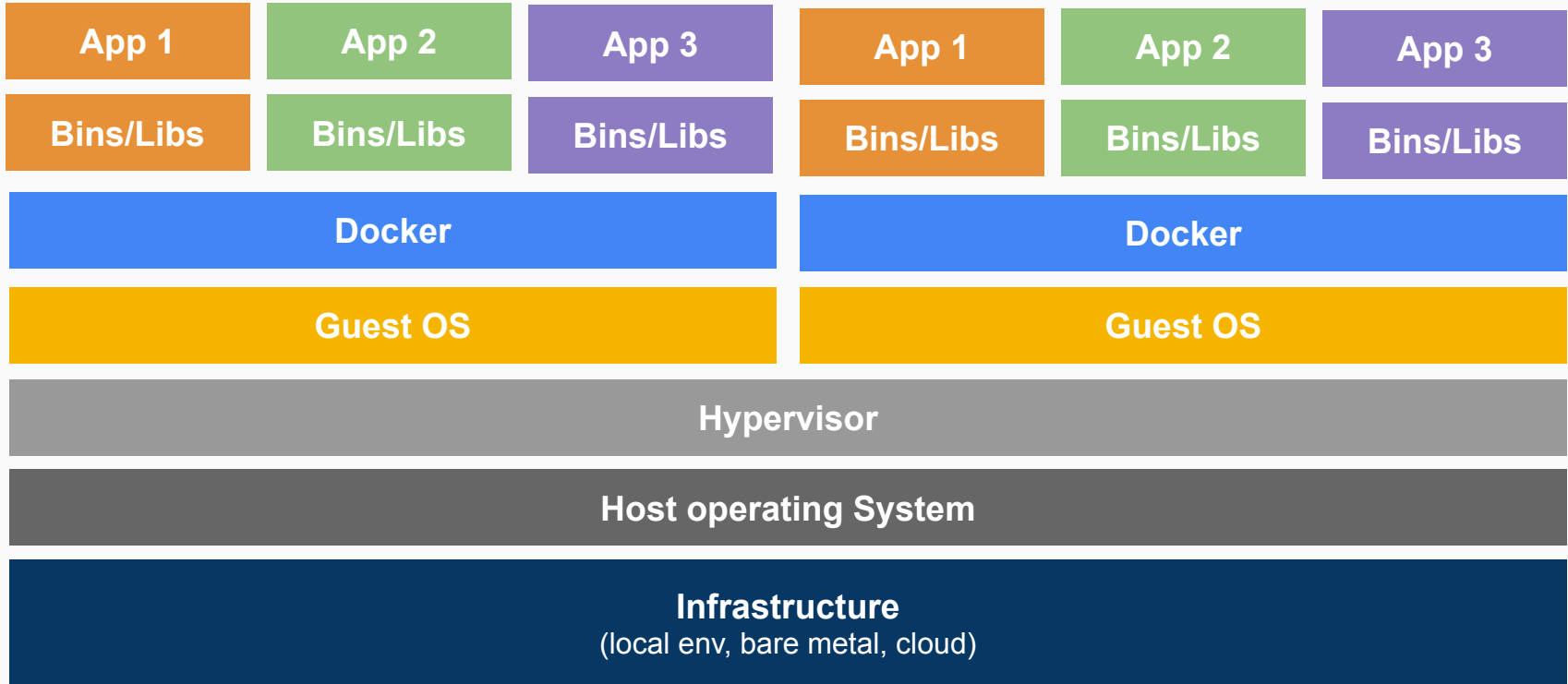
#WCNiS



Golijat protiv David



David i Golijat



Lista pojmova

Slika (*Image*)

- **Početna tačka**
- **Skup definicija**
- **Nema stanje**
- **Nepromenljiva**

Lista pojmova

Slika (*Image*)

Početna tačka, skup definicija, nema stanje,
nepromenljiva

Kontejner (*Container*)

- **Instanca slike**
- **Sadrži aplikaciju**
- **Menja se u vremenu**

Lista pojmova

Slika (*Image*)

Početna tačka, skup definicija, nema stanje, nepromenljiva

Kontejner (*Container*)

Instanca slike, sadrži aplikaciju, menja se u vremenu

Domaćin (*Host*)

Mašina/hardver na kojoj je instaliran Docker

Docker CLI



Docker CLI: Struktura komandne linije

```
# docker run --name wcnis-mysql -e MYSQL_ALLOW_EMPTY_PASSWORD=true -d mysql:5
```

komanda

opcije

argumenti

Docker CLI: Lista kontejnera

```
# docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	STATUS	PORTS	NAMES
013028d02f15	mysql:5	"docker-entrypoint.s..."	Up 2 days	3306/tcp, 33060/tcp	wcnis-mysql

Docker CLI: Podešavanje kontejnera za server baze podataka

```
# docker exec wcnis-mysql mysql --user=root --execute="show databases;"
```

```
Database
information_schema
mysql
performance_schema
sys
```

```
# docker exec wcnis-mysql mysql --user=root -e "create database wordpress;"
```

```
# docker exec wcnis-mysql mysql --user=root -e "use wordpress; show tables;"
```

```
# docker exec wcnis-mysql mysql --user=root --execute="show databases;"
```

```
Database
information_schema
mysql
performance_schema
sys
wordpress
```

Docker CLI: Podešavanje kontejnera za aplikativni server (WordPress)

```
# docker run --name wcnis-wp --link wcnis-mysql:mysql -p 80:80 -d wordpress
```

```
03748f64f941dce127b47c960b38c5060952d83f4fcdcf22c9861bf72d3ac8041
```

```
# docker ps
```

CONTAINER ID	IMAGE	COMMAND	STATUS	PORTS	NAMES
03748f64f941	wordpress	"docker-entrypoint.s..."	Up 2 days	0.0.0.0:80->80/tcp	wcnis-wp
013028d02f15	mysql:5	"docker-entrypoint.s..."	Up 2 days	3306/tcp, 33060/tcp	wcnis-mysql

```
# curl -I localhost
```

```
HTTP/1.1 302 Found
Date: Wed, 06 Feb 2019 16:45:13 GMT
Server: Apache/2.4.25 (Debian)
X-Powered-By: PHP/7.2.14
Expires: Wed, 11 Jan 1984 05:00:00 GMT
Cache-Control: no-cache, must-revalidate, max-age=0
Location: http://localhost/wp-admin/install.php
Content-Type: text/html; charset=UTF-8
```

Docker + WordPress u razvojnom okruženju

docker-compose

Docker CLI: docker-compose podešavanje

```
# cat docker-compose.yml
```

Docker CLI: docker-compose setup

```
version: '3.3'
```

```
services:
```

```
  wcnic-db:
```

```
    image: mysql:5.7
```

```
    volumes:
```

```
      - db_data:/var/lib/mysql
```

```
    restart: always
```

```
    environment:
```

```
      MYSQL_ROOT_PASSWORD: root
```

```
      MYSQL_DATABASE: wordpress
```

```
      MYSQL_USER: wordpress_user
```

```
      MYSQL_PASSWORD: wp_secure_password
```

```
  wcnic-wp:
```

```
    depends_on:
```

```
      - wcnic-db
```

```
    image: wordpress:latest
```

```
    ports:
```

```
      - "80:80"
```

```
    restart: always
```

```
    environment:
```

```
      WORDPRESS_DB_HOST: db:3306
```

```
      WORDPRESS_DB_USER: wordpress_user
```

```
      WORDPRESS_DB_PASSWORD: wp_secure_password
```

```
      WORDPRESS_DB_NAME: wordpress
```

```
volumes:
```

```
  db_data: {}
```

Docker CLI: docker-compose setup

```
# docker-compose up -d
```

```
Creating network "www_default" with the default driver
```

```
Creating volume "www_db_data" with default driver
```

```
Creating www_wcnic-db_1 ... done
```

```
Creating www_wcnic-wp_1 ... done
```


Docker + WordPress

u kontejnerima

- Nginx / load balancing
- Aplikacija (php-fpm)
- Baza podataka (mysql)
- Datoteke (wp-content)

Koji softver za razvoj WordPress projekata koristi primarno Docker?

```
# docker ps --all --format "Name: {{.Names}} ({{.Status}} )\nPorts: {{.Ports}}\n{{.Command}}\n-----\n\n
```

```
Name: vigilant_varahamihira (Up 24 minutes)  
Ports: 0.0.0.0:80->80/tcp, 0.0.0.0:443->443/tcp  
"nginx -g 'daemon off'"  
-----
```

```
Name: optimistic_shaw (Exited (137) 3 days ago)  
Ports:  
"/etc/scripts/sleep.."  
-----
```

```
Name: silly_kepler (Exited (137) 6 days ago)  
Ports:  
"/etc/scripts/sleep.1"  
-----
```

```
Name: nostalgic_payne (Exited (137) 7 days ago)  
Ports:  
"/etc/scripts/sleep.s"  
-----
```

```
Name: friendly_lamport (Up 24 minutes)  
Ports: 0.0.0.0:4008->80/tcp, 0.0.0.0:4009->443/tcp, 0.0.0.0:4011->1080/t p, 0.0.0.0:4010->3306/tcp  
"/etc/scripts/sleep.1"
```

localbyflywheel.com



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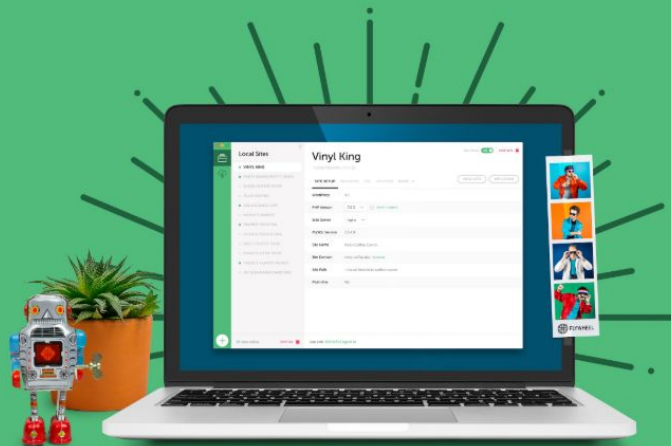
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Nemanja Cimbaljević

mejl: hello@cimba.dev

twitter: [@bikcrveni](https://twitter.com/bikcrveni)

wp.org: [ziontrooper](https://www.ziontrooper.org/)



Hvala!

