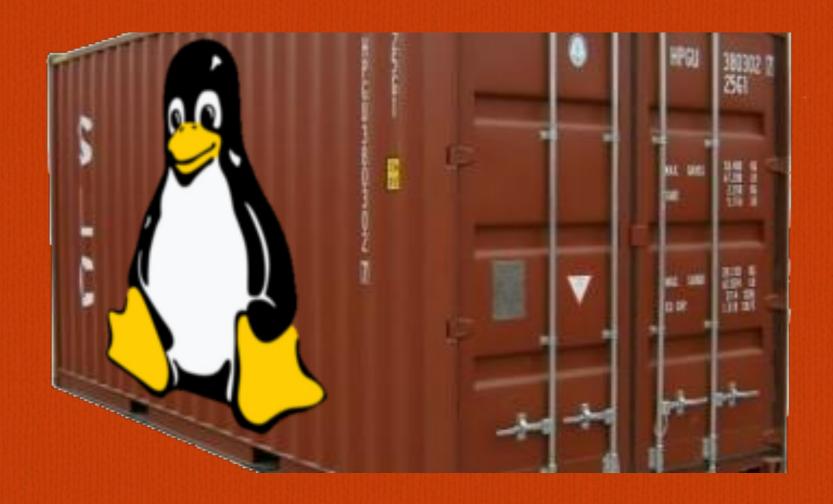
# Linux Container'larının Geleceği

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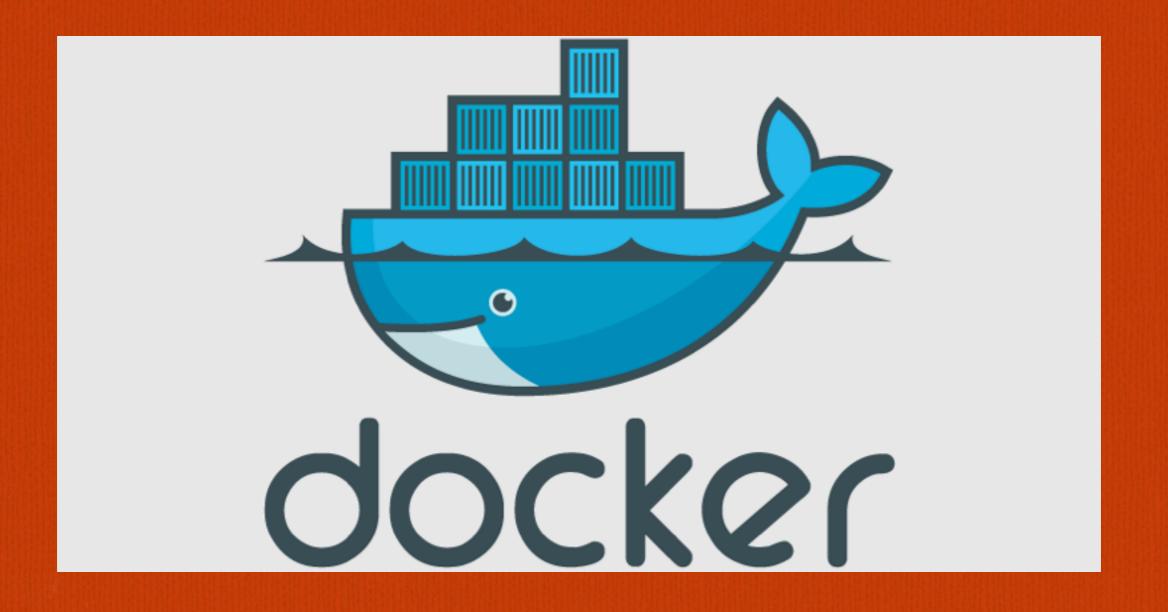
## Linux Containers

## Linux Containers?

- Linux Kernel'ınin birden fazla userspace yaratabilmesine olanak tanır.
- Userspace yaratıldığında kendi init süreci olur.
- ☐ Container'lar birbirinden izole durumdadırlar.

## Linux Containers?

- □ Container'ların kaynakları arttırılabilir veya engellenebilir. Böylece sistem kaynakları daha verimli kullanılabilir.
- Bu kısıtlamalar kernel'ın cgroups denilen bölümü ile yapılır.



Docker

## Docker

- □ Linux container'lar için bir engine.
- ☐ Kolay, hızlı ve taşınabilir container'lar yaratmanıza yarayan açık kaynak bir proje.
- $\square$  Docker 1.0

## Docker 1.0

#### IT'S HERE: DOCKER 1.0

June 9, 2014 9:30am PT

On March 20, 2013, we released the first version of Docker. After 15 months, 8,741 commits from more than 460 contributors, 2.75 million downloads, over 14,000 "Dockerized" apps, and feedback from 10s of 1000s of users about their experience with Docker, from a single container on a laptop to 1000s in production in the cloud ... we're excited to announce that it's here: Docker 1.0.

It's a milestone we celebrate with the entire Docker community, for without the community's contributions, pull requests, and answering of each other's questions on IRC and forums none of this would have been possible. And without the community hosting more than 250 meetups in 90 cities across 30 countries, the awareness, understanding, and excitement of Docker would not have spread as rapidly.

- ☐ github.com/dotcloud/docker
- □ Golang
- □ Bir çok yardımcı araç Python.

## Kurulum

- □ Vagrant, boot2docker
- □ Linux dağıtımlari için paket yöneticileri

### Komutlar

- □ image çekmek: docker pull ubuntu
- ☐ image aramak: docker search postgres
- image listeleme: docker images
- docker pull ubuntu echo hello world

```
# Pull base image.
FROM dockerfile/ubuntu
# Install Redis.
RUN \
  cd /tmp && \
 wget http://download.redis.io/redis-stable.tar.gz && \
 tar xvzf redis-stable.tar.gz && \
  cd redis-stable && \
 make && \
  make install && \
 cp -f src/redis-sentinel /usr/local/bin && \
 mkdir -p /etc/redis && \
 cp -f *.conf /etc/redis && \
  rm -rf /tmp/redis-stable* && \
 sed -i 's/\(bind .*\)$/# \1/' /etc/redis/redis.conf && \
 sed -i 's/^\(daemonize .*\)$/# \1/' /etc/redis/redis.conf && \
 sed -i 's/^\(dir .*\)$/# \1\ndir \/data/' /etc/redis/redis.conf && \
  sed -i 's/^\(logfile .*\)$/# \1/' /etc/redis/redis.conf
# Define mountable directories.
VOLUME ["/data"]
# Define working directory.
WORKDIR /data
# Define default command.
CMD ["redis-server", "/etc/redis/redis.conf"]
# Expose ports.
EXPOSE 6379
```

#### Docker Hub

docker pull dockerfile/redis

docker run -d --name redis -p 6379:6379 dockerfile/redis

#### Demo

Tatava yapma terminali aç!

-Py. Cr. Dev. Berker Peksağ