

Managing Images Using Docker Hub

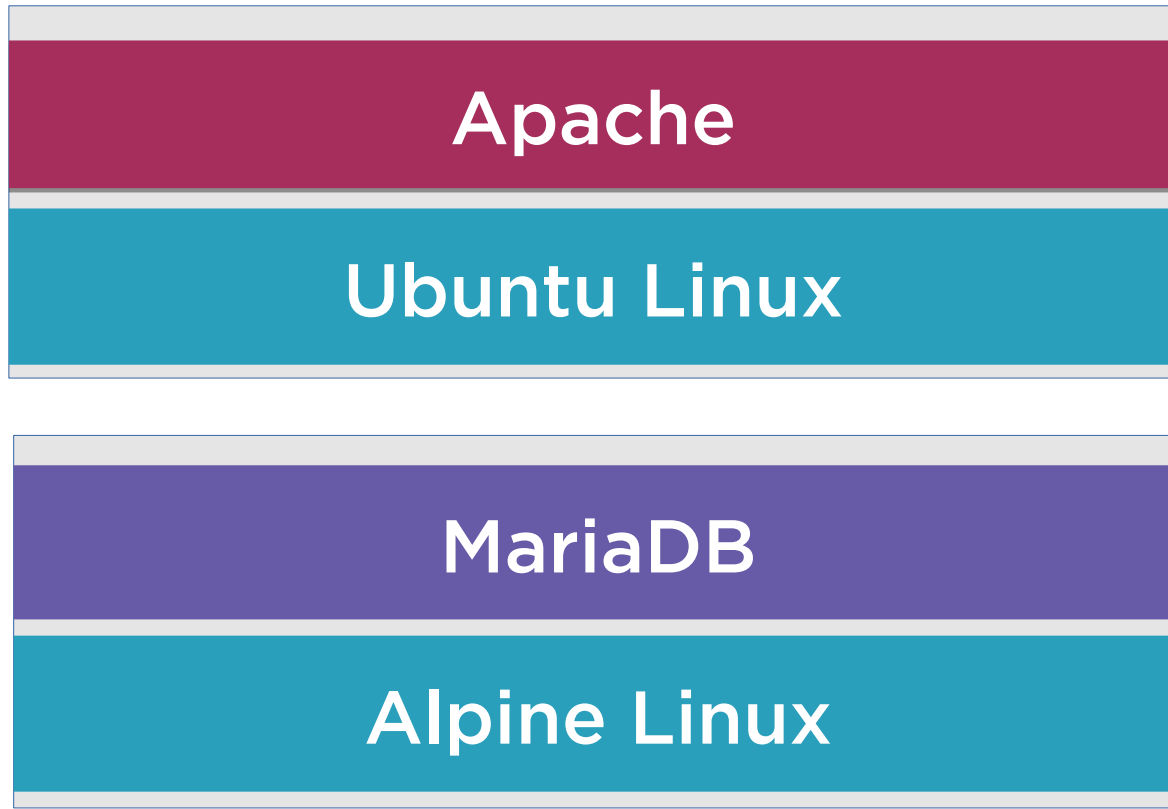


David Clinton

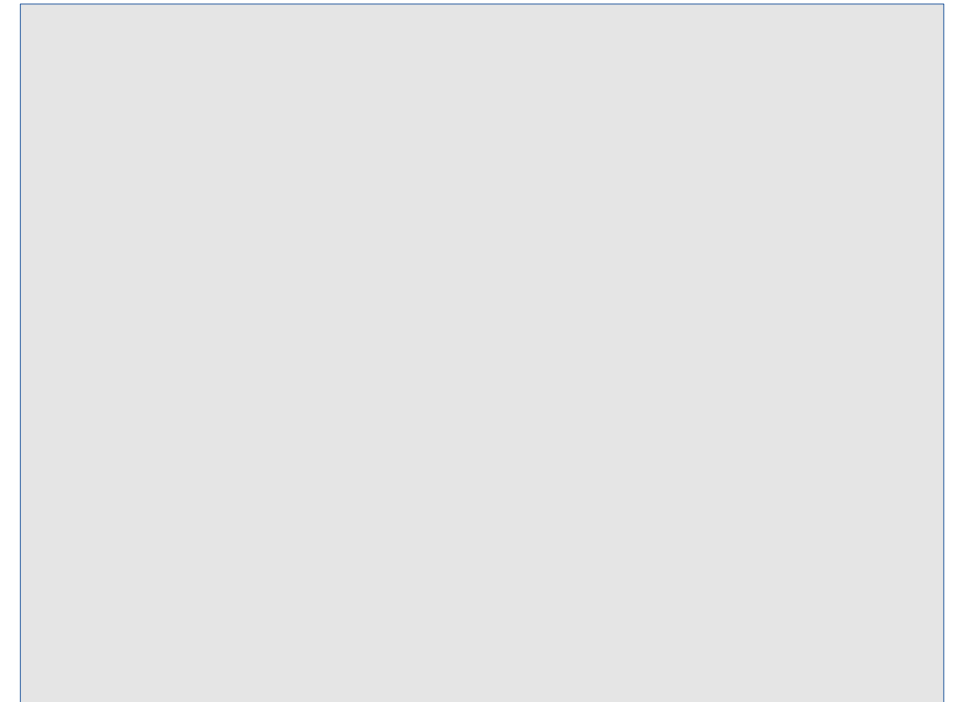
LINUX SYSTEM ADMINISTRATOR

www.bootstrap-it.com/docker-images | www.bootstrap-it.com/blog

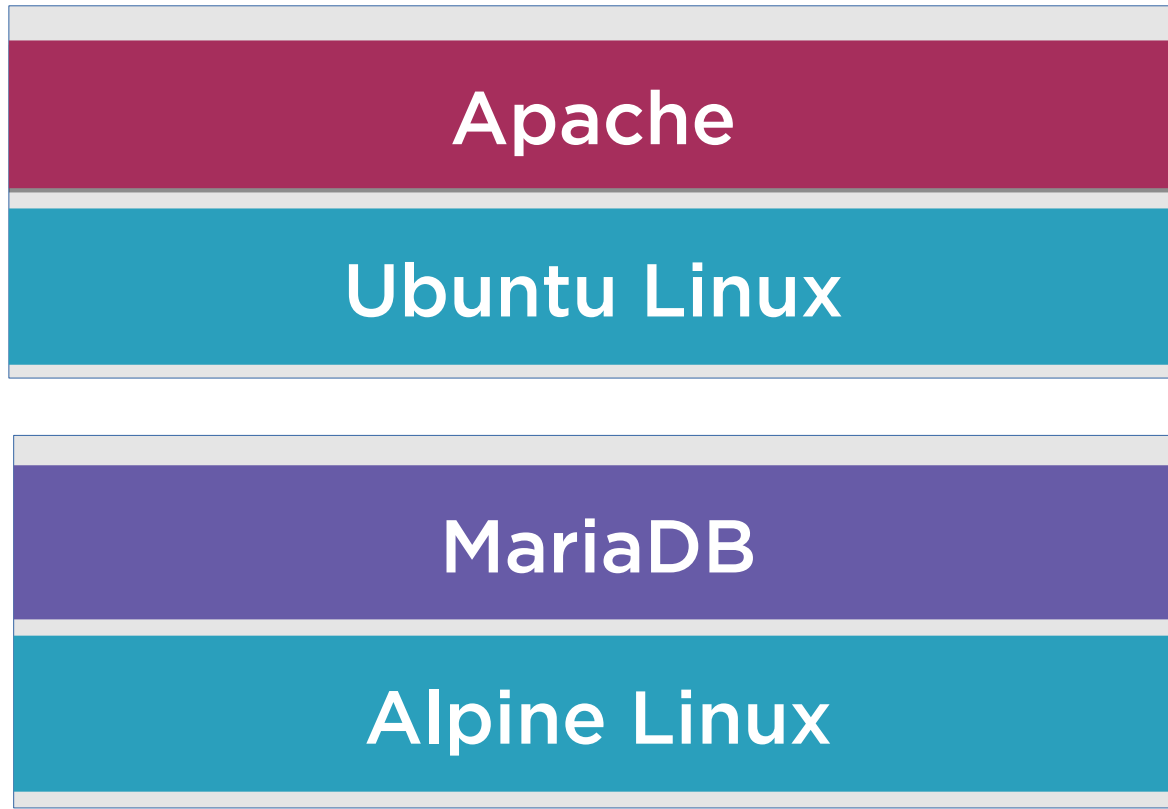
Existing Images:



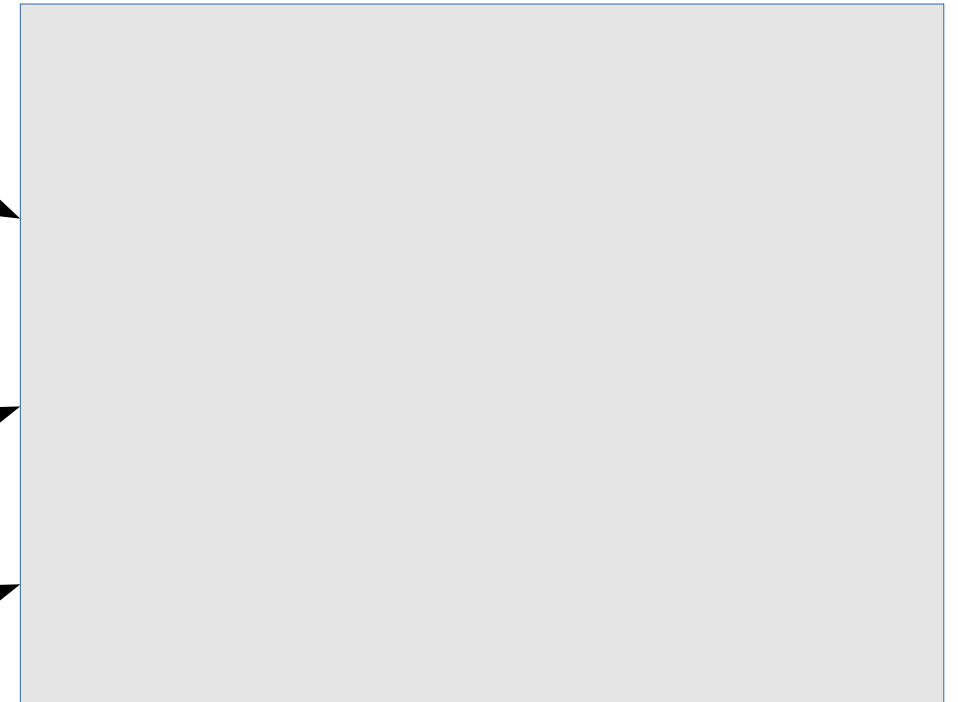
New Image:



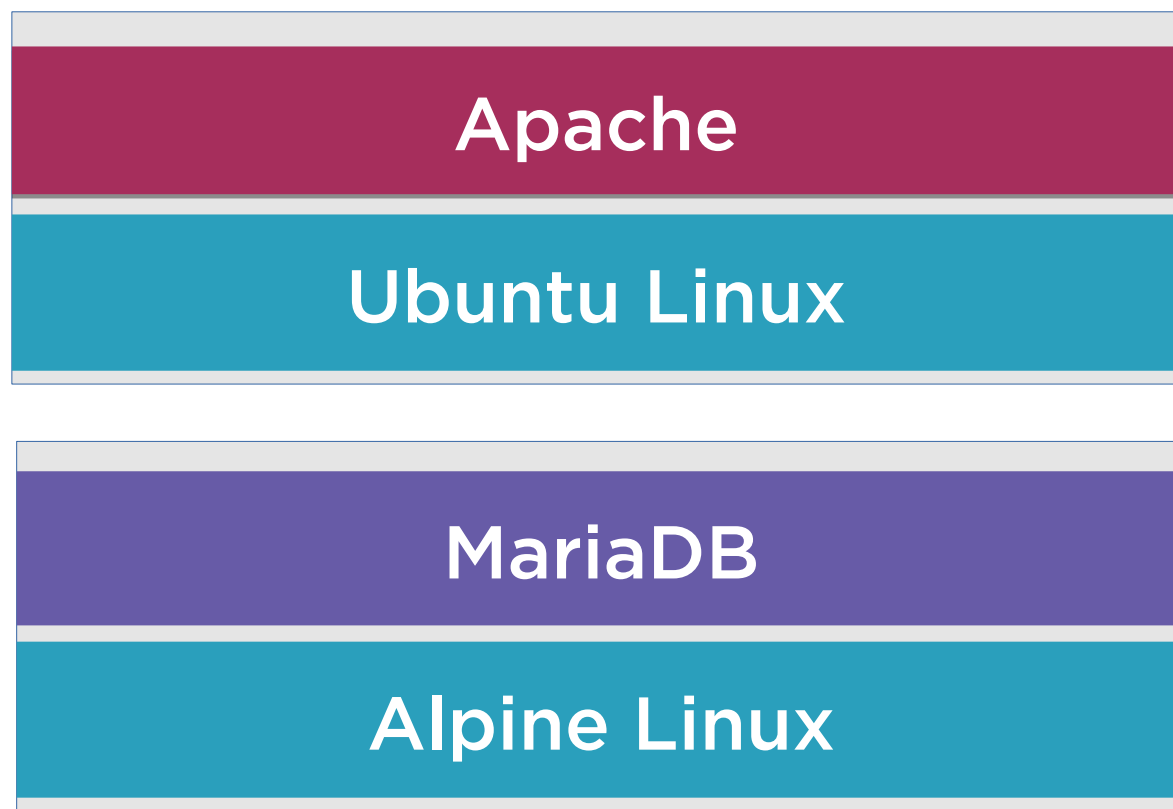
Existing Images:



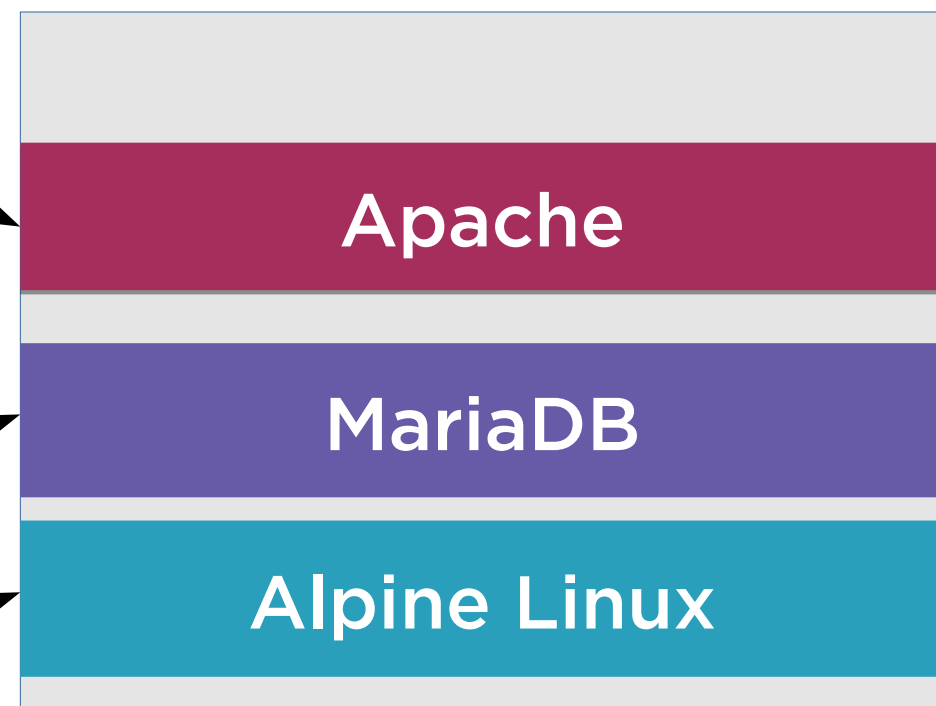
New Image:



Existing Images:



New Image:



The Predictability Value Proposition:

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**Reliable
environment
sharing**

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**Reliable
deployments**

Building and Pushing Images

Demo



Image search

Image architecture

Dockerfiles

Demo



Image search

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Dockerfiles

Demo



Image search

Image architecture

Dockerfiles

“docker images” output:

```
$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
ubuntu	latest	f49eec89601e	2 weeks ago	129 MB
centos	latest	67591570dd29	7 weeks ago	192 MB

```
$
```

“docker search ubuntu/golang” output (partial)

NAME	DESCRIPTION	STARS	OFFICIAL	AUTOMATED
neroinc/ubuntu-golang-crosscompile		3	[OK]	
akiraw95/ubuntu-golang-glide	golang + glide buil...	1		
bouk/ubuntu-golang		1		
nimmis/golang	Builds a Docker con...	1	[OK]	
proudh/ubuntu-golang-glide	golang+glide build...	1		
f5lenny/ubuntu-wily-golang	Ubuntu Wily with Go...	0	[OK]	
coolsvap/ubuntu-golang	golang	0	[OK]	
netroby/ubuntu-golang		0	[OK]	

“docker history ubuntu” output:

IMAGE	CREATED	CREATED BY	SIZE
f49eec89601e	2 weeks ago	/bin/sh -c #(nop) CMD ["/bin/bash"]	0 B
<missing>	2 weeks ago	/bin/sh -c mkdir -p /run/systemd && echo '...	7 B
<missing>	2 weeks ago	/bin/sh -c sed -i 's/^#\s*\s*(deb.*universe\...	1.9 kB
<missing>	2 weeks ago	/bin/sh -c rm -rf /var/lib/apt/lists/*	0 B
<missing>	2 weeks ago	/bin/sh -c set -xe && echo '#!/bin/sh' >...	745 B
<missing>	2 weeks ago	/bin/sh -c #(nop) ADD file:68f83d996c38a09...	129 MB

Image Best Practices

“docker images” output:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
oneline	latest	a090deb25fa7	24 seconds ago	349 MB
manylines	latest	f6c79d168010	6 minutes ago	651 MB
myimage	latest	004acd2526d0	13 minutes ago	129 MB
webserver	latest	983d3f27fb40	3 hours ago	268 MB
ubuntu	16.04	f49eec89601e	2 weeks ago	129 MB
ubuntu	latest	f49eec89601e	2 weeks ago	129 MB
alpine	latest	88e169ea8f46	6 weeks ago	3.98 MB
centos	latest	67591570dd29	7 weeks ago	192 MB
Centos	6.6	d03626170061	5 months ago	203 MB

Summary



Speed and predictability

docker search ubuntu/golang

docker pull alpine

docker history ubuntu

nano dockerfile

ADD . index.html /var/www/html/

**RUN mkdir -p /opt/jboss/wildfly && cd /tmp
&& [...]**

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