Register No: 20L31A05J4

Experiment No: 05

Date:

S. No	Component	Max. Marks	Marks Secured
1	Preparedness	2	
2	Viva-Voce	2	
3	Experiment	3	
4	Analysis & Record	3	•
	Total	10	
Date		Signature of the Lab teacher	

AIM: To Build, Deploy and Manage web or java application on Docker.

Theory:

Docker Build:

This command is used to build the Dockerfile to create images of application that can be shipped and run anywhere.

1. Docker Build with URL :

\$docker build github.com/creack/docker-firefoxe this isit clone the git repository and use the cloned repository as context. The Dockeryile at the ποοτ will be used as "Dockeryile" to build the image. You can specify git:// or git@ scheme too.

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\$docker build -f ctx/Dockerfile http://server/ctx.tar.gz
This . Sends the URL http://server/ctx.tar.gz to the
Docker daemon, which downloads and extracts
the referenced tarball. The -f ctx/Dockerfile
parameter specifies a path inside ctx.tar.gz to
the Dockerfile that is used to build the image.

2. Docker Build with 4-4:

docker build - < Dockerfile

This will read a Dockerfile from STDINI without context.

\$ docker build - x context. tar-93

This will build an image for a compressed context read from STDINI. Supported formats are: bzip2, gzip and 22.

3. Docker Build with dockerignorefile: \$ docker build.

docker build searches jou a dockerignore file relative to the Dockerfile name.

Using a Dockerfile based dockerignore is useful if a project contains multiple Dockerfiles that expect to ignore different sets of files.

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- Docker Build with tag "-t":
\$docker built -t vieux lapaches 2.0.
5. Docker Build with "-f":
\$docker build - P Dockerfile.colos
This will use Dockerfile. colo to build the
image instead of Dockerfile.
6. Docker build with add-host.
\$ docker build add-host=docker: 10.180.0.1.
y. Docker build with target?
\$docker build et mybuildinage -target build-en
e Docker build with output:
docker build output type = tar, dest = out.tar
Deploy: Specifies how the container needs to be deployed.
· End point-mode : can be either VIP or drs-rr lons-
round robin)
Specific II
and a shall call be will be
nhiller in the second
max number of replicus for
it can spin up to.

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constraints : such as
i) The role of the user using or counting the container. 2) The type of the os the container should run
spread: how the replicas should be spread across 130nes)
replicas: replicas that can be running at any
given time. Resources: provides the system limits that a container can have.
1) CPUS 2) Memory
restart policy:) Condition: always lon-pailure Inone 2) Delay: how long to wait before start
3) max_attempts & how many times should the

of failures.

4) window: how long to wait before deciding

if restart is succeeded for not.

docker host try to bring up the container in case

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oupdate-config :
,) Parallelism & how many containers can be
undated.
2) Delay: time between an update blw a group
of containers.
3) Failure-action: If we should continue, rollbau
or paul.
4) Moniton: how long should we moniton bej
the next task is rolled out.
5) Max-failure-rate: failures to tolerate during
an update.
6) Order: how to carry the update
istop-first: default; old task is stopped first
before starting a new one.

ii) start-first: start new task and then stop

the old one.