

DOCKER CASE STUDY

SYSTEM REQUIRMENTS :

- 1) Dynamic Allocation of Linux systems for users.
- 2) Each user should have independent Linux System.
- 3) Specific training environment should be created in Container.
- 4) User should not allow to access other containers/images.
- 5) User should not allow to access docker command.
- 6) Monitor participants containers.
- 7) Debug/live demo for the participants if they have any doubts/bug in running applications.
- 8) Automate container creation and deletion.

CREATING CONTAINERS :

- 1) Write a script such that it reads input from a file and create containers with names read from input.

Create Container.sh

```
echo -n "Enter your username "  
read name  
while read user  
do  
    docker create -it --name $user <docker-image> /bin/bash  
done < $file
```

Here we read user_name from file and create a container with the image you want to run.

- 2) The user can then start using the allocated container by running the “Use_Container.sh” script.

Use Container.sh

```
echo -n "Enter your username "  
read name  
docker start $name  
docker attach $name
```

Monitoring The Containers:

To monitor the activities of a particular user use the shell script “Monitor_Container.sh”

Monitor Container.sh

```
echo -n "Enter name of user to be monitored "  
read name  
docker logs -f $name
```

Deleting The Containers:

To delete the existing user container run the following script.

Delete Container.sh

```
echo -n " Enter name of user to be deleted "  
read name  
docker rm $name
```

BY

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