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We@Tech from OSGROUP



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Password less Authentication on two Docker Containers

Password less Authentication on two Docker Containers

Note: This article is reply to the question posted by Vijay Kumar Balaji

Steps:

1.Build a Docker Image from Dockerfile, create two Containers 2.Setup Public and Private key

Lets Do it, I have used Azure Docker Virtual Machine, you can have your own docker setup.

It is pre-assumed that you know docker.

1.Build a Docker Image, create two Containers

Here i have used Dockerfile, you can also do it manually pulling a bare OS and set up SSH.

Create a Dockerfile

vim Dockerfile



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prajwal s Sł

sagar Pimp shailesh tha

```
sylesh@sylesh: ~/osgroup

FROM ubuntu:16.04

MAINTAINER Shailesh Thakur

RUN apt-get update 66 apt-get install -y openssh-server

RUN mkdir /var/run/sshd

RUN sed -i 's/PermitRootLogin prohibit-password/PermitRootLogin yes/' /etc/ssh/sshd_config

RUN sed -i 's/PermitRootLogin prohibit-password/PermitRootLogin yes/' /etc/ssh/sshd_config

RUN sed 's@session\s*required\s*pam_loginuid.so@session optional pam_loginuid.so@g* -i /etc/pam.d/sshd

ENN NOTVISIBLE *in users profile*

RUN echo "export VISIBLE-nov" >> /etc/profile

EXPOSE 22

CMD [*/usr/ebin/sshd*, *"-D*]
```

 $write\ and\ quit. Lets\ build\ image\ from\ the\ docker\ file\ that\ is\ done\ as..$

docker build -t osgroup/ssh_machine1 .

. means from the current directory.

```
sylesh@sylesh:-/osgroups
sylesh@sylesh:-/osgro
```

```
aylesh8sylesh://osgroup$
aylesh8sylesh://osgroup$
sylesh8sylesh://osgroup$
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IMAGE ID CREATED SIZE

SEPROSITOR:

TAG IMAGE ID CREATED SIZE

Osgroup/ssh_machinel larest 9866809f159 2 minutes ago 224 MB
ubuntu sylesh8sylesh://osgroup$

### Sylesh8sylesh8syles
```

Creating first container

 $docker\ run\ \hbox{-tid}\ osgroup/ssh_machine1$

we can run it twice to create two containers

```
syleshBaylesh:-/osgroup

ayleshBaylesh:-/osgroup

ayleshBaylesh:-/osgroup
```

Checking the running containers

docker ps

```
sylesh@sylesh:-/osgroups
sylesh@sylesh:-/osgro
```

Checking the IP assigned to containers

 $docker\ inspect < container_name > |\ grep\ IPAddress$

Getting Inside the first container

docker exec -ti <container_name> bash

```
oylesh@sylesh:-8
sylesh@sylesh:-8
sylesh@sylesh:-9
sylesh:-9
sylesh@sylesh:-9
sylesh:-9
syles
```

Checking with ssh and logging on second container with password

ssh -l root <ip-address_of second container>

2.Setup Public and Private key

We generated a public and private key pair on first machine

ssh-keygen

```
sylesh@syleshi=6 dooker exec -ri hungry_yalow bash
root80a444d0617o6:/#
root80a444d0617o6:/#
root80a444d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
bin Boot daw etc home lib lib64 machinel media mnt opt proc root run sbin srv sys usr var
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
root80a44d0617o6:/#
she key finparase (empty for no passphrase):
Enter passphrase (empty for no passphrase
```

Copy the public key to the other machine

ssh-copy-id -i ~/.ssh/id_rsa.pub <ip_of_remote container>

```
sylenBeytesh:-6
sylenBeytesh:-
```

That's all Done!!!!

```
root@1456ad2c43bb.~

root@04546d0617c6:/#

root@04546d0617c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

root@04546d017c6:/#

Pacoumentation: https://help-ubuntu.com

* Documentation: https://help-ubuntu.com

* Shanagement https://handonaps.com.ontola.com

* Last login: Non Jan 23 06:39:28 2017 from 172.17.0.3

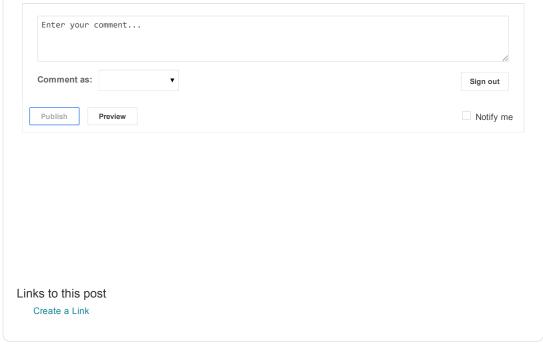
root@1456ad2c43bb:-#
```

Thanks Happy Virtualization !!!! Feel Free to post as may question possible we try to solve as much as we can

Posted by shailesh thakur at 05:35 G-+1 +1 Recommend this on Google

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