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My Little Note

☰

November 16, 2019　▪　Zimbra

How to Install Zimbra on Docker Container

Posted by iman

Docker container that
build on this article
based on Ubuntu
18.04. The benefit
when using container,
you can build on any
operating system. You
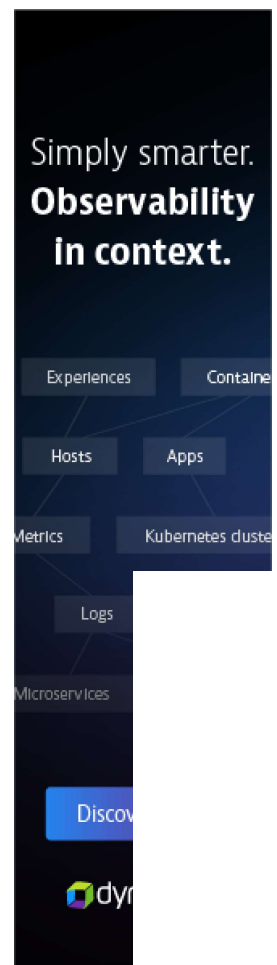can create Docker
container on Linux,
Mac and Windows. You can also use any Distro Linux (that
supported by Docker) to running Docker container 🙂

Build Docker Images

Please make sure your system already installed Docker 🙂

– Download Dockerfile

```
cd /srv/
curl -k
https://raw.githubusercontent.com/imanudin11/zimbra-
docker/master/Dockerfile > Dockerfile
```
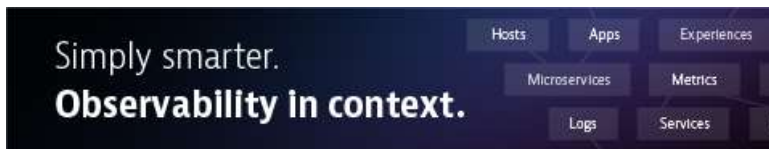
– Build Docker image

```
docker build -t imanudin:zcsub1804 .
```

With the above command, you will create Docker image with repository name **imanudin** and **zcsub1804** as Tag. Check Docker images with **"docker images"** command.

Create container

Now you can create a container from an image that has been built. Please run below command

```
1.  docker run -dit --name zcs -h
    mail.imanudin.net -p 25:25 -p
    p 443:443 -p 465:465 -p 587:587 -p
    993:993 -p 995:995 -p 7071:7071
    imanudin:zcsub1804
```

Now, you have created a Zimbra container. Enter to container
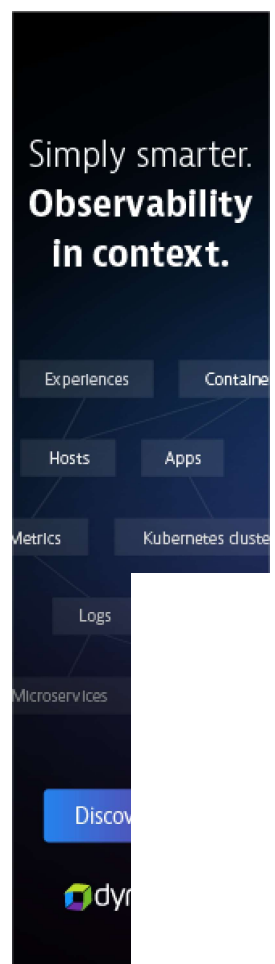
```
docker exec -it zcs bash
```

Configure local DNS

Before installing Zimbra, you should configure local DNS. This DNS needed by Zimbra to resolve MX and A records. I have saved a script to create local DNS automatically. You can see the script on /srv/ folder. So, just run the script and local DNS will automatically be created 🙂

```
/srv/dns-auto.sh
```

Below is the example output from dns-auto script

```
root@mail:/# /srv/dns-auto.sh

[INFO] : Configuring DNS Server
 * Stopping domain name service... bind9
waiting for pid 45 to die

 * Starting domain name service... bind9
Server:         127.0.0.1
Address:        127.0.0.1#53

Name:   mail.imanudin.net
Address: 172.17.0.4


; <<>> DiG 9.11.3-1ubuntu1.10-Ubuntu <<>> imanudin.net mx
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 50581
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 3

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
; COOKIE: c8929b84c2cbf2bbd2a286815dce9722913933fde10e3d18 (good)
;; QUESTION SECTION:
;imanudin.net.                   IN      MX

;; ANSWER SECTION:
imanudin.net.           86400   IN      MX      0 mail.imanudin.net.

;; AUTHORITY SECTION:
imanudin.net.           86400   IN      NS      ns1.imanudin.net.

;; ADDITIONAL SECTION:
mail.imanudin.net.      86400   IN      A       172.17.0.4
ns1.imanudin.net.       86400   IN      A       172.17.0.4

;; Query time: 0 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Fri Nov 15 19:16:34 WIB 2019
;; MSG SIZE  rcvd: 140
```

Tags

Active Directory	
archive	archiving
automatic	block
CBPolicyd	centos
CentOS 6	CentOS 7
chat	Configure
disclaimer	domain
easy install	export
how to	import
incoming	install
Mailman	migrate
password	policyd
Provisioning	relay
restrict	Samba
Samba4	script

	R$ 1.439,99	R$ 16
R$ 224,99	R$ 1.812,95	R$ 22
R$ 119,90 R$ 599,99	R$ 218,30	R$ 12

zimbra 8.8.15	zimbra 9
Zimbra OSE	

 # Download and Install Zimbra

Now, you can install Zimbra. Download, extract and run

install.sh script

```
1.  cd /opt/
2.  wget -c
       https://files.zimbra.com/downloads/8.8.15_GA/zcs-
       8.8.15_GA_3869.UBUNTU18_64.20190917004220.tgz
3.  tar -zxvf zcs-
       8.8.15_GA_3869.UBUNTU18_64.20190917004220.tgz
4.  cd zcs-
       8.8.15_GA_3869.UBUNTU18_64.20190917004220
5.  ./install.sh
```

Type **y/Y** if asked :

– Do you agree with the terms of the software license

agreement? **[N] y**

– Use Zimbra's package repository **[Y] y**

Type **y/Y** on all packages except *zimbra-dnscache* and *zimbra-imapd*. Zimbra-dnscache not selected because I am using Bind for internal DNS and zimbra-imapd still BETA version

```
 Select the packages to install

 Install zimbra-ldap [Y] y
 Install zimbra-logger [Y] y
 Install zimbra-mta [Y] y
 Install zimbra-dnscache [Y] N
 Install zimbra-snmp [Y] y
 Install zimbra-store [Y] y
 Install zimbra-apache [Y] y
 Install zimbra-spell [Y] y
 Install zimbra-memcached [Y] y
 Install zimbra-proxy [Y] y
 Install zimbra-drive [Y] y
 Install zimbra-imapd (BETA - for evaluation only)
 Install zimbra-chat [Y] y
 Checking required space for zimbra-core
 Checking space for zimbra-store
 Checking required packages for zimbra-store
 zimbra-store package check complete.

 Installing:
     zimbra-core
     zimbra-ldap
     zimbra-logger
     zimbra-mta
     zimbra-snmp
     zimbra-store
     zimbra-apache
     zimbra-spell
     zimbra-memcached
     zimbra-proxy
     zimbra-drive
     zimbra-patch
     zimbra-mta-patch
     zimbra-proxy-patch
     zimbra-chat


 The system will be modified.  Continue? [N] y
```

Type *Y* if asked *The system will be modified. Continue?*

if you get message like below, press *enter* or type *Yes* and
change domain name

```
DNS ERROR resolving MX for mail.imanudin.net
It is suggested that the domain name have an MX re
Change domain name? [Yes] Yes
Create domain: [mail.imanudin.net] imanudin.net
```

Type *6* and then press key *enter* to change password of admin
account. Type again *4* and then press key *enter*. Insert your
password that you want

```
Main menu

   1) Common Configuration:
   2) zimbra-ldap:                            Enal
   3) zimbra-logger:                          Enal
   4) zimbra-mta:                             Enal
   5) zimbra-snmp:                            Enal
   6) zimbra-store:                           Enal
        +Create Admin User:                   yes
        +Admin user to create:                adm
******* +Admin Password                       UNSI
        +Anti-virus quarantine user:          vir

... skip ...

Address unconfigured (**) items  (? - help) 6

Store configuration

   1) Status:                                 Enal
   2) Create Admin User:                      yes
   3) Admin user to create:                   adm
** 4) Admin Password                          UNSI
   5) Anti-virus quarantine user:             vir

... skip ...

Select, or 'r' for previous menu [r] 4

Password for admin@imanudin.net (min 6 characters)
```

After insert password, *Select, or 'r' for the previous menu*. If all
has been configured, apply configuration and wait until Zimbra
install finished

```
*** CONFIGURATION COMPLETE - press 'a' to apply
Select from menu, or press 'a' to apply config (?
Save configuration data to a file? [Yes] Yes
Save config in file: [/opt/zimbra/config.1450] pre
Saving config in /opt/zimbra/config.1450...done.
The system will be modified - continue? [No] Yes
Operations logged to /tmp/zmsetup.20191003-082624.
```

Type **Yes** if asked *Notify Zimbra of your installation?* and if has been appeared *Configuration complete – press return to exit*, your zimbra installation has been finished. Check Zimbra status with this command ***su – zimbra -c "zmcontrol status"*** and make sure all service running well. You can access webmail via browser at url ***https://ZimbraServer***

```
You have the option of notifying Zimbra of your in
This helps us to track the uptake of the Zimbra Co
The only information that will be transmitted is:
        The VERSION of zcs installed (8.8.15_GA_38
        The ADMIN EMAIL ADDRESS created (admin@ima

Notify Zimbra of your installation? [Yes] Yes
Notification skipped
Checking if the NG started running...done.
Setting up zimbra crontab...done.

Moving /tmp/zmsetup.20191003-082624.log to /opt/zi

Configuration complete - press return to exit
```
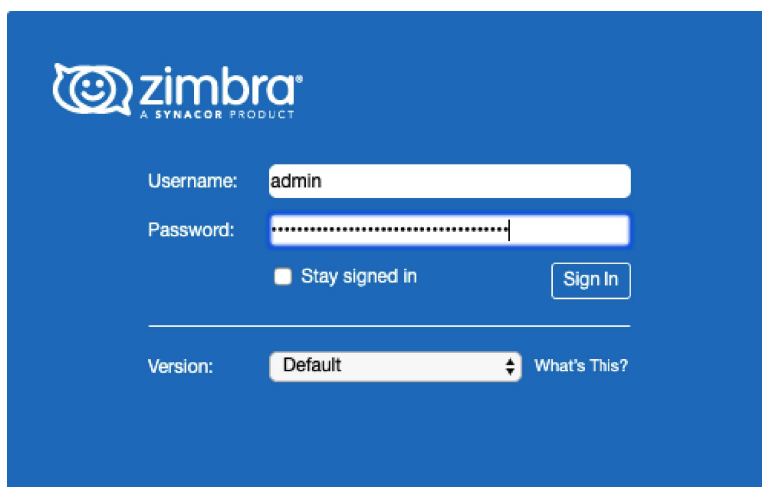
Add service Zimbra to /services.sh
For make sure Zimbra service auto start/restart when start

Docker container, please add Zimbra service to script
/services.sh.

```
vi /services.sh
```

and add this line on the bottom

```
/etc/init.d/zimbra restart
```

So, the lines on */services.sh* like below

```
cat /etc/resolv.conf > /tmp/resolv.ori
echo "nameserver 127.0.0.1" > /tmp/resolv.add
cat /tmp/resolv.add /tmp/resolv.ori > /etc/resolv.
/etc/init.d/bind9 restart
/etc/init.d/rsyslog restart
/etc/init.d/zimbra restart
```

Good luck and hopefully useful 🙂

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container   docker   how to   how to install   install zimbra