

Oracle Mobile Cloud Enterprise – Intelligent Bot – Virtual Box Release Notes

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Environment Overview

Architecture

The VBox image runs the Docker image v1.1 (17.4.5) for Intelligent Bot. The docker containers needed have been pre-created.

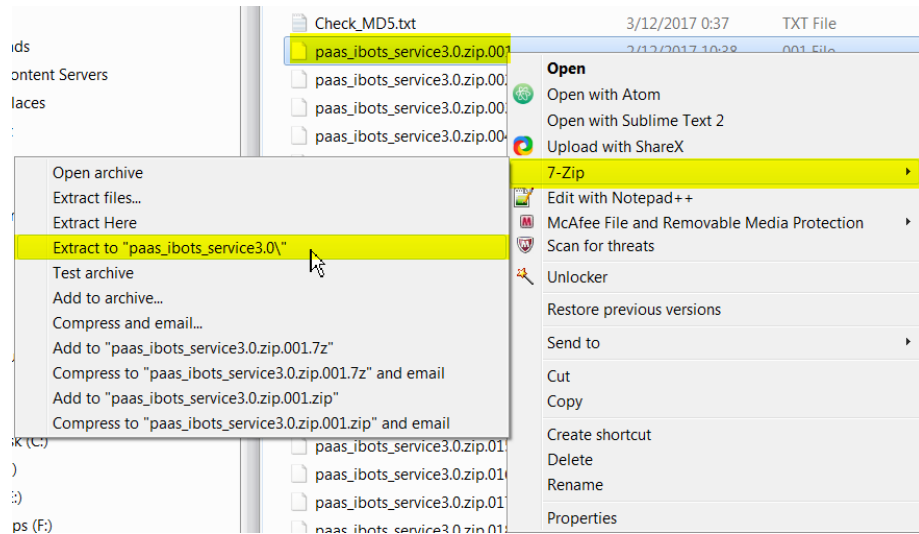
Ports Used

List all the ports used by different services for this demo.

Process	Port
Bots UI	8080
Bots Samples & Admin UI	8888

Downloading & Setting Up the VM

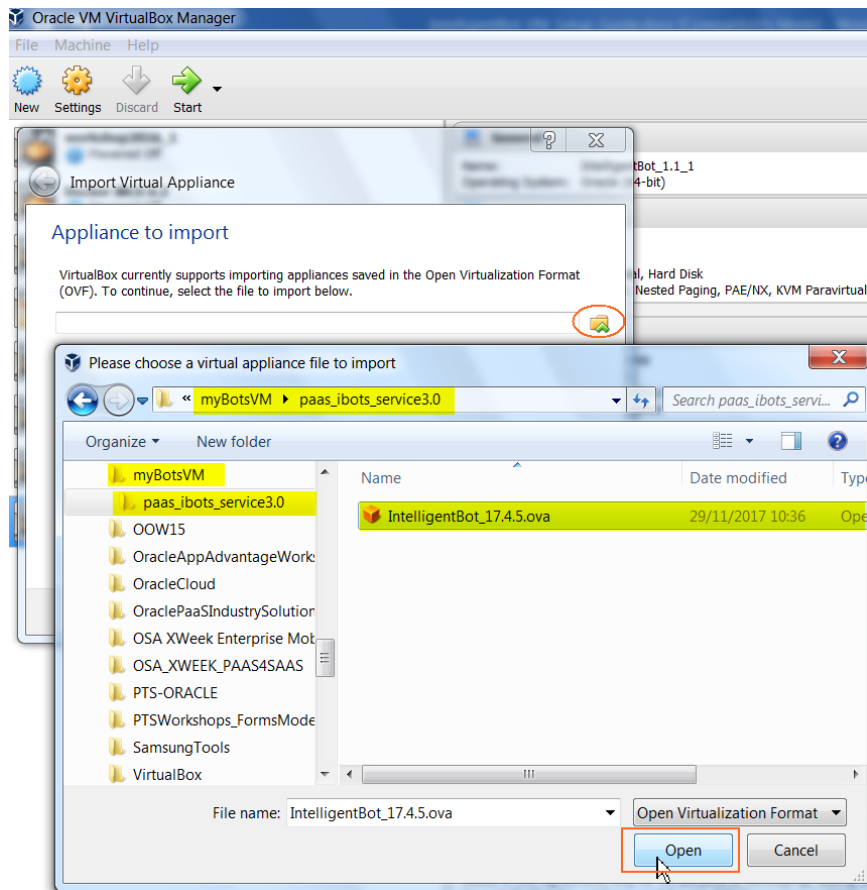
1. Download all the zip files from <https://www.dropbox.com/sh/iuywn9ipxltwltz/AACWVdSJsCNJrA6adMCGEer7a?dl=0>. There should be 18 files with names as follows.
 - paas_ibots_service3.0.zip.001
 - paas_ibots_service3.0.zip.002
 - paas_ibots_service3.0.zip.003
 -
 - paas_ibots_service3.0.zip.018
2. After the part files have got downloaded, right click on one of the part file(example .001) and extract it using 7-zip as shown below



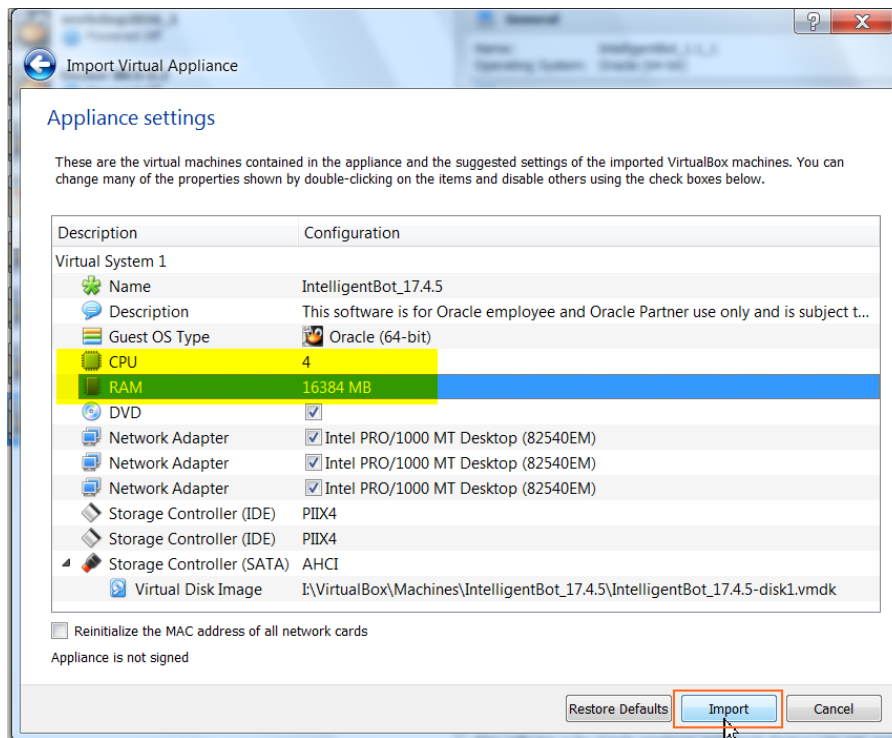
Note:

- a) You will need to have latest version of 7z for this to work, preferably 7z version 9 or higher.
- b) Usually the 7z executable is found under C:\Program Files\7-Zip

3. This will create the IntelligentBot_17.4.5.ova file in **paas_ibots_service3.0** folder
4. Once the OVA file has been extracted, it can now be imported into VBox. In Virtual Box, import this image as an appliance (**File > Import Appliance**). Do NOT check the box to reset **MAC** address for network ports.



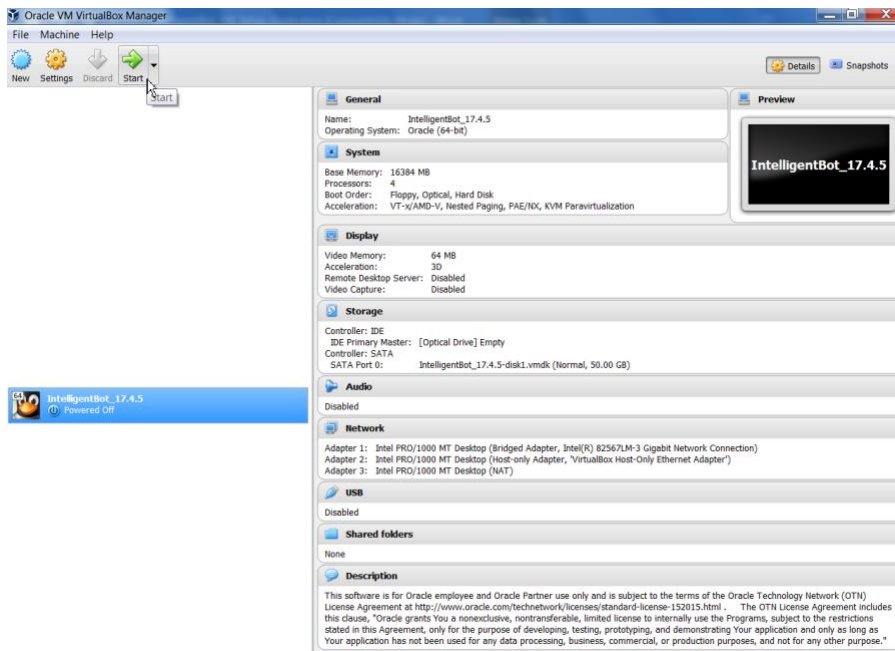
5. Press Open then Next
6. Press Import and continue with import steps – it might take a few minutes (notices the RAM size on Appliance Settings Screen – 14027 MB and CPU – 4 => you can adapt to your laptop resources). Once it has been imported, the Image / Appliance would show up on the Oracle VM VirtualBox Manager. The right hand side of the screen shows the settings of the Image.



Note: The above steps will work for Windows platform only. Steps for MACs and Linux are similar, although you would need to apply these steps to the MAC or Linux version of the Oracle Virtual Box and 7-Zip Utility.

Starting the Virtual Box

To start up the Intelligent Bot virtual machine, use **Start** on Oracle VM VirtualBox Toolbar.



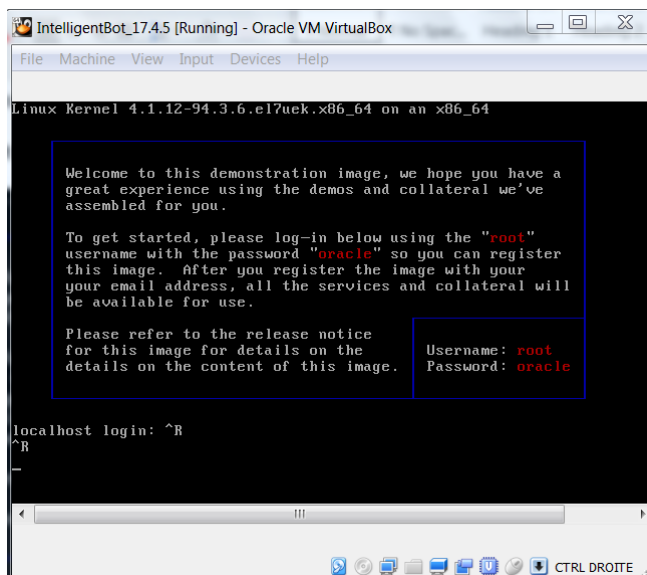
Note: Depending on your host machine configuration, you may get a message regarding hardware acceleration not being enabled. In this case, you can enable hardware acceleration in your operating system BIOS, which is often located under Security – please check Oracle VM VirtualBox install guide.

First time

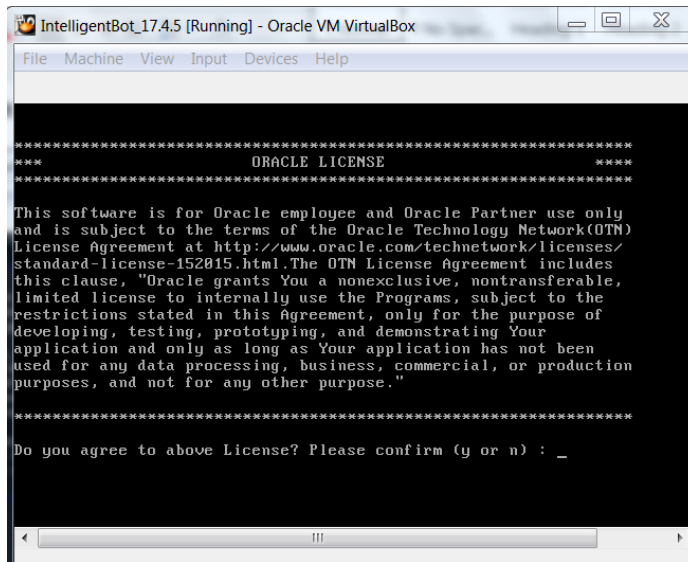
First time starting is a little bit different than the others as you will be requested to authenticate using your email address

After the VM starts, you get a black box

- Click **Ctrl-Alt + F2** to get the below screen



- As indicated, enter **root** for login and **oracle** (qwerty keyboard) as password



```
IntelligentBot_17.4.5 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

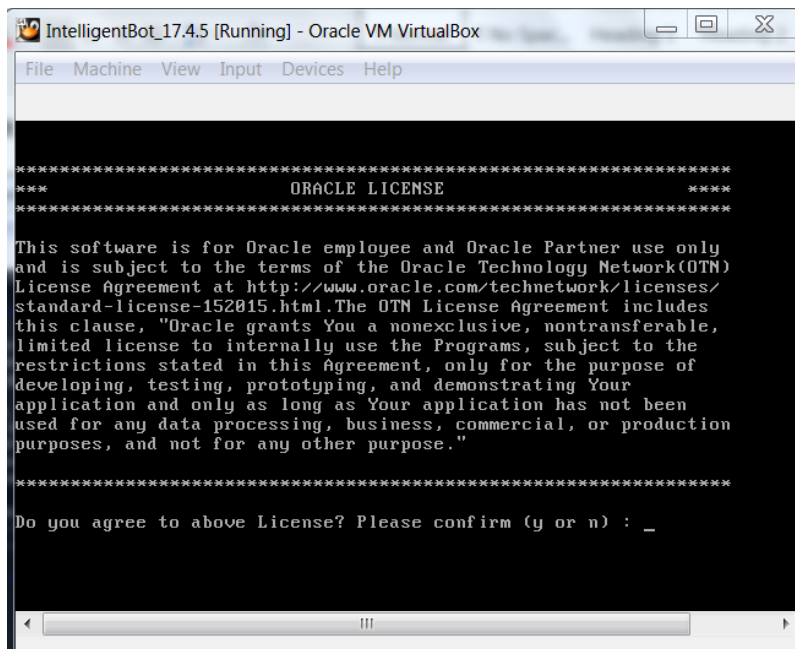
*****
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*****

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developing, testing, prototyping, and demonstrating Your
application and only as long as Your application has not been
used for any data processing, business, commercial, or production
purposes, and not for any other purpose."

*****

Do you agree to above License? Please confirm (y or n) : _
```

- Type **y** for “Do you agree to above license? Please confirm (y or n): “ and click <enter>
- Press **Any Key** to continue



```
IntelligentBot_17.4.5 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

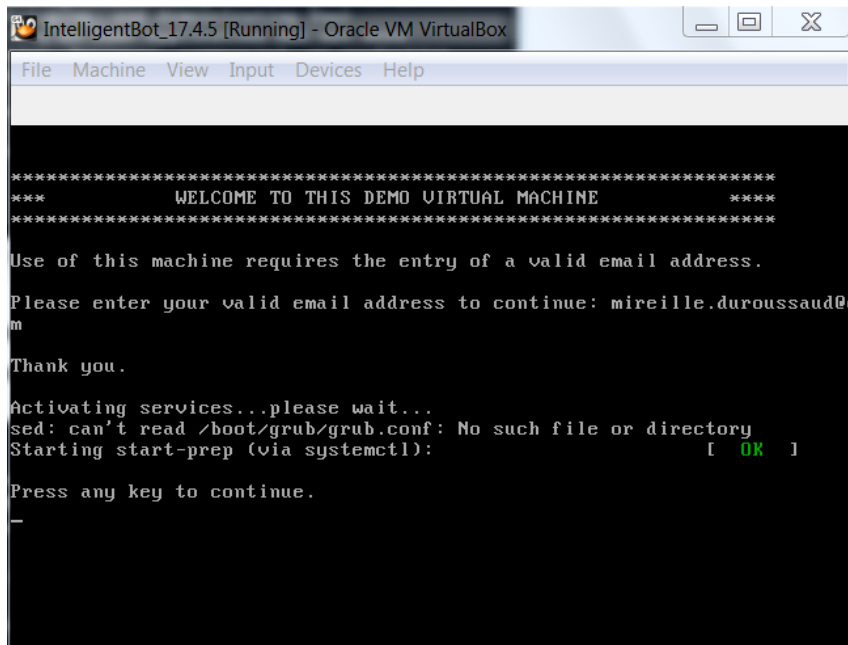
*****
***** ORACLE LICENSE *****
*****

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restrictions stated in this Agreement, only for the purpose of
developing, testing, prototyping, and demonstrating Your
application and only as long as Your application has not been
used for any data processing, business, commercial, or production
purposes, and not for any other purpose."

*****

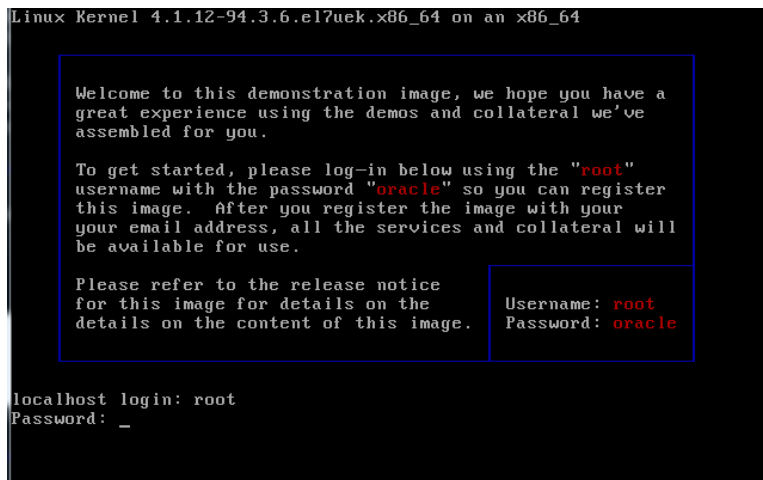
Do you agree to above License? Please confirm (y or n) : _
```

- Type your **email address** and click <enter>
 - Be careful as keyboard is in qwerty mode



- Press Any Key to continue

Restart the VM (to be able to set up Keyboard layout - easier to enter the commands to start Docker containers



- Connect root / oracle

```
Linux Kernel 4.1.12-94.3.6.el7uek.x86_64 on an x86_64

Welcome to this demonstration image, we hope you have a
great experience using the demos and collateral we've
assembled for you.

To get started, please log-in below using the "root"
username with the password "oracle" so you can register
this image. After you register the image with your
your email address, all the services and collateral will
be available for use.

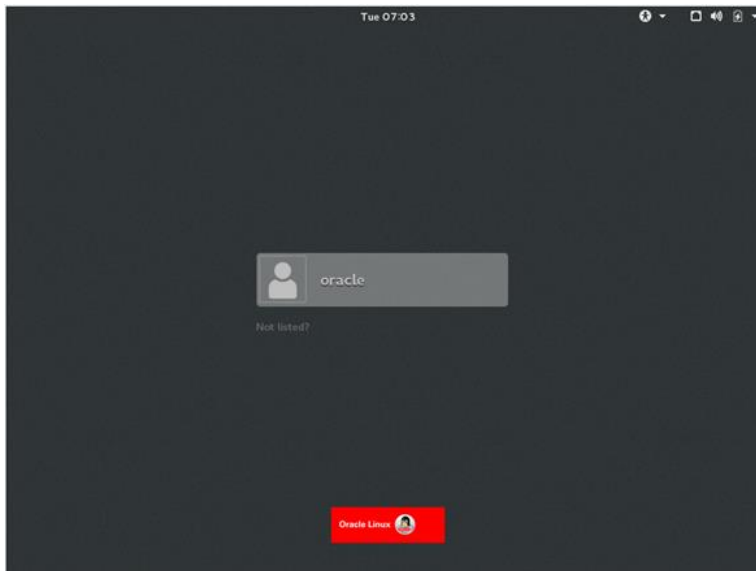
Please refer to the release notice
for this image for details on the
details on the content of this image.

Username: root
Password: oracle

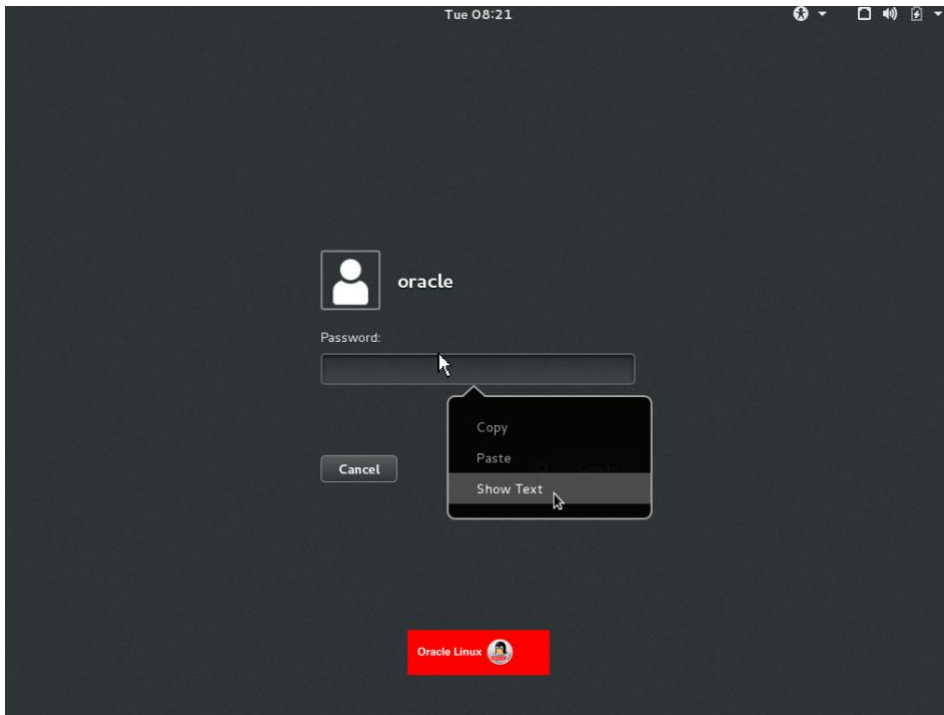
localhost login: root
Password:
Last login: Sun Dec  3 03:08:45 on tty2
[root@localhost ~]# shutdown -r 0_
```

- Type `shutdown -r 0`

The VM restarts and you get the GUI with **oracle** user already displayed

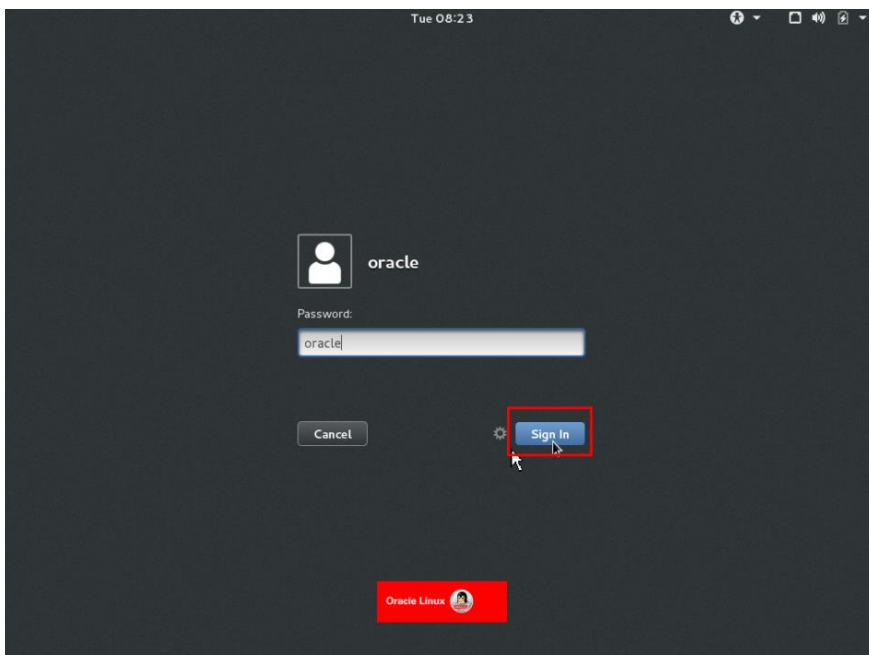


- Click **oracle**

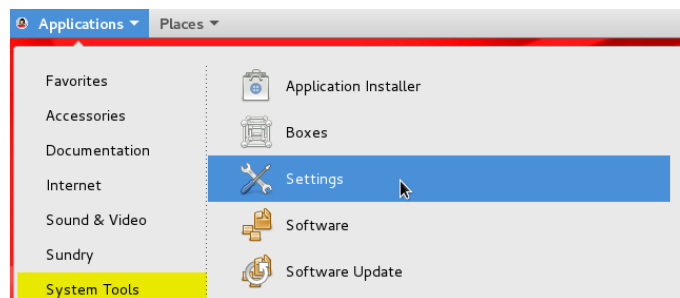


You can right-click into the **password** field and select **Show Text**

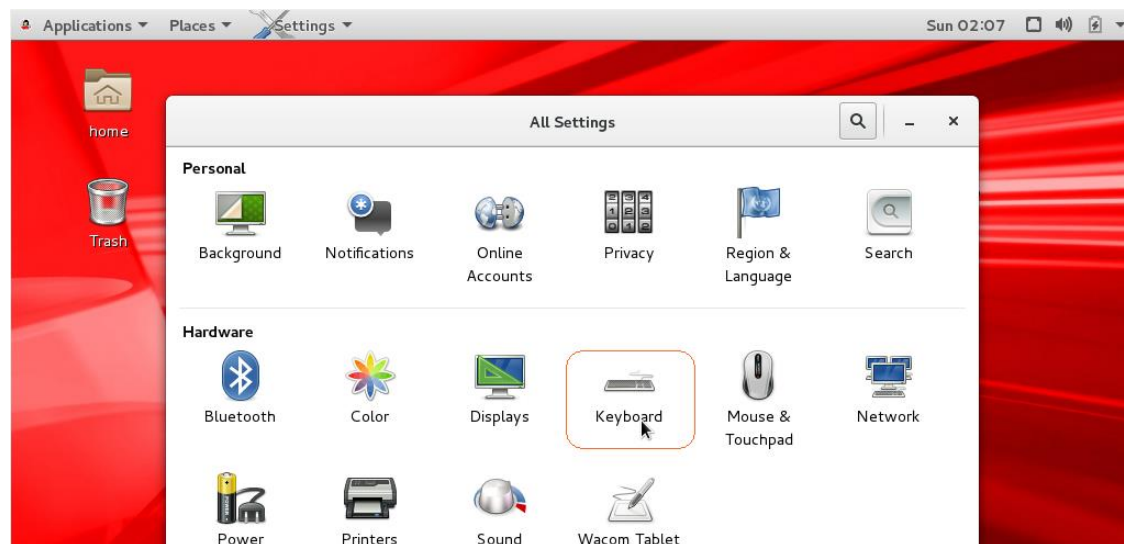
- Enter the password: **oracle** (qwerty keyboard) and click **Sign In**



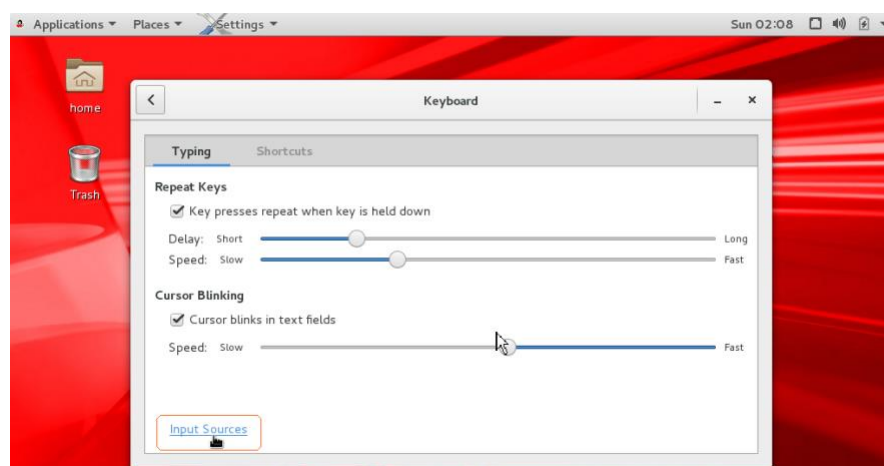
- Change the Settings for Keyboard layout



- Select **Keyboard**



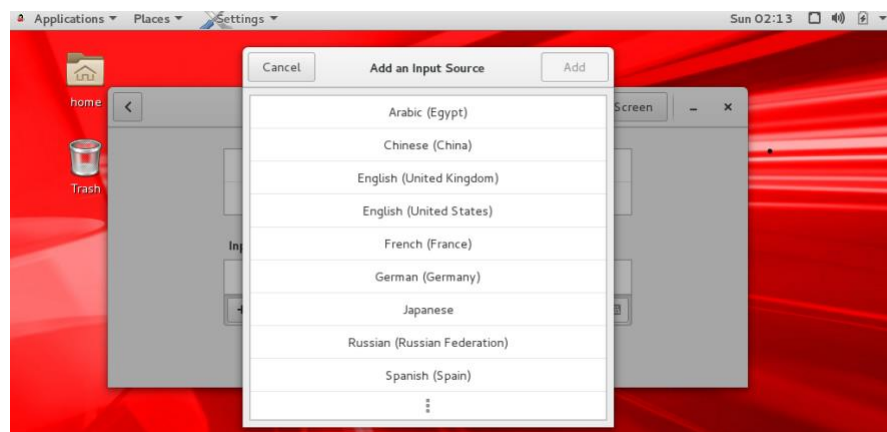
- Select **Input Sources**



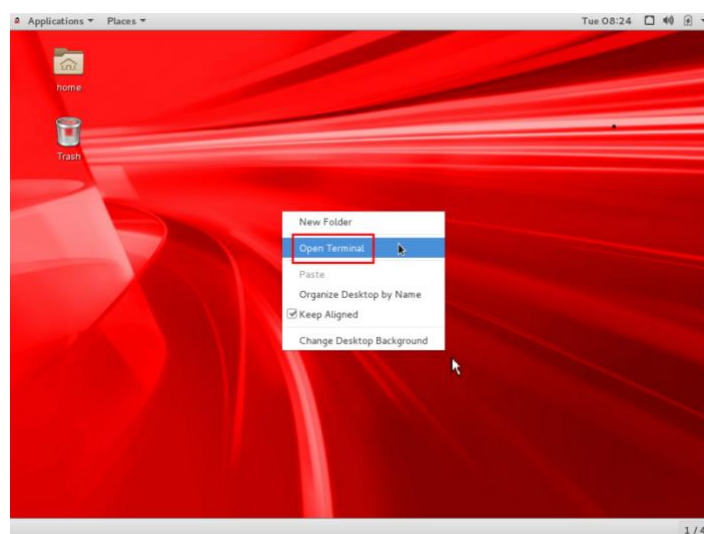
- Click on **+** sign



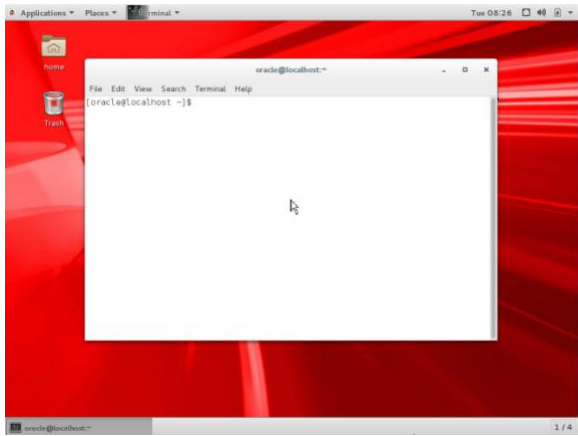
- Select the **Input Source** that suits your needs



- Click **Add**
- Close the **Region & Language** window to return to the Desktop
- Right-click into the Desktop and select **Open Terminal**

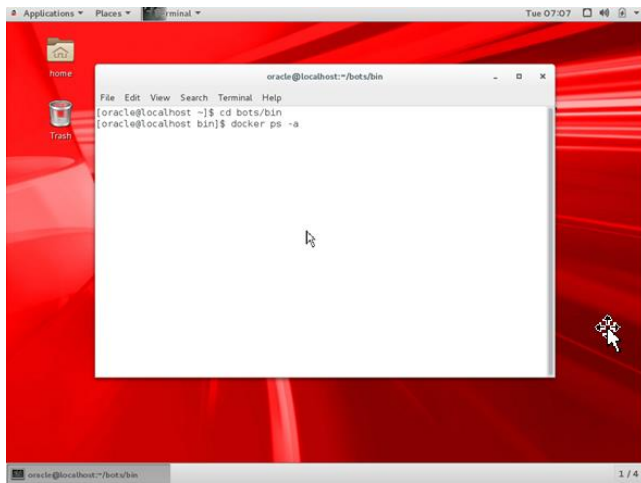


A Terminal window opens



- Type:

\$ docker ps -a



The list of the already created docker containers displays

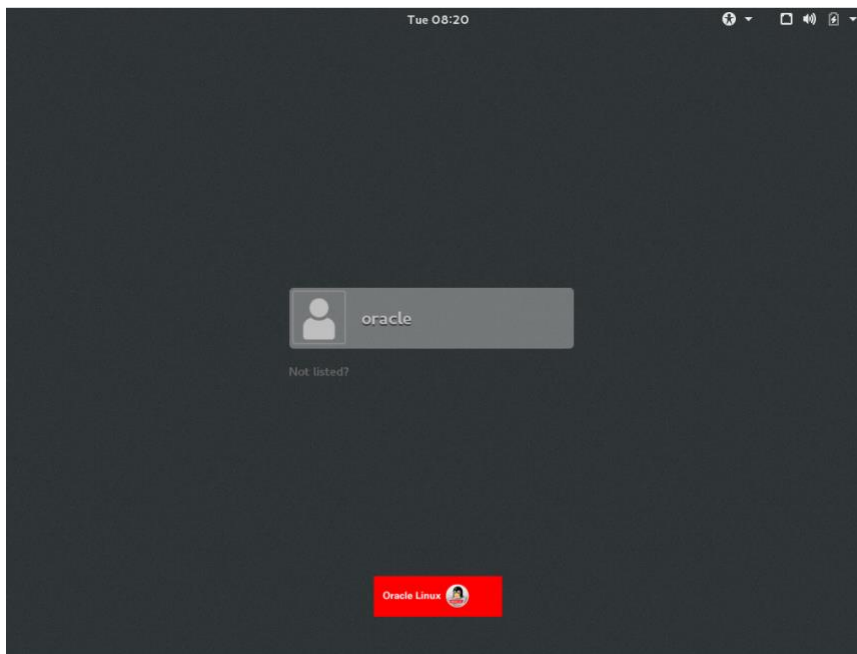
CONTAINER ID	IMAGE	CREATED	STATUS	PORTS	NAMES
8d4cc077316e	bot-build-docker-local.docker.oraclecorp.com/bots-samples-nodejs	4 days ago	Exited (0)	17.4.5	bots-s
7fb0dc2c46fd	bot-build-docker-local.docker.oraclecorp.com/bots-config	4 days ago	Exited (0)	17.4.5	bots-c
44da2e3ac5a9	bot-build-docker-local.docker.oraclecorp.com/bots-pipeline	4 days ago	Exited (0)	17.4.5	bots-p
5d60183e62cc	bot-build-docker-local.docker.oraclecorp.com/bots-management-apis	4 days ago	Exited (0)	17.4.5	bots-m
95a2899bfe8c	bot-build-docker-local.docker.oraclecorp.com/bots-qna-server	4 days ago	Exited (0)	17.4.5	bots-q
107a43350bab	bot-build-docker-local.docker.oraclecorp.com/bots-intent-server	4 days ago	Exited (0)	17.4.5	bots-i
1d1f5dc81e2f	bot-build-docker-local.docker.oraclecorp.com/bots-connectors	4 days ago	Exited (0)	17.4.5	bots-c
8b11a5ebfb21	bot-build-docker-local.docker.oraclecorp.com/bots-repository	4 days ago	Exited (0)	17.4.5	bots-r
clcedbcf94c8	bot-build-docker-local.docker.oraclecorp.com/bots-storage	4 days ago	Exited (0)	17.4.5	bots-s
e8a768102a4d	bot-build-docker-local.docker.oraclecorp.com/bots-message-queue	4 days ago	Exited (0)	17.4.5	bots-m
6e23b78e82ee	bot-build-docker-local.docker.oraclecorp.com/bots-otd	4 days ago	Exited (0)	17.4.5	bots-o

- The containers are in **Exited** status. They are created and you just have to start them now.

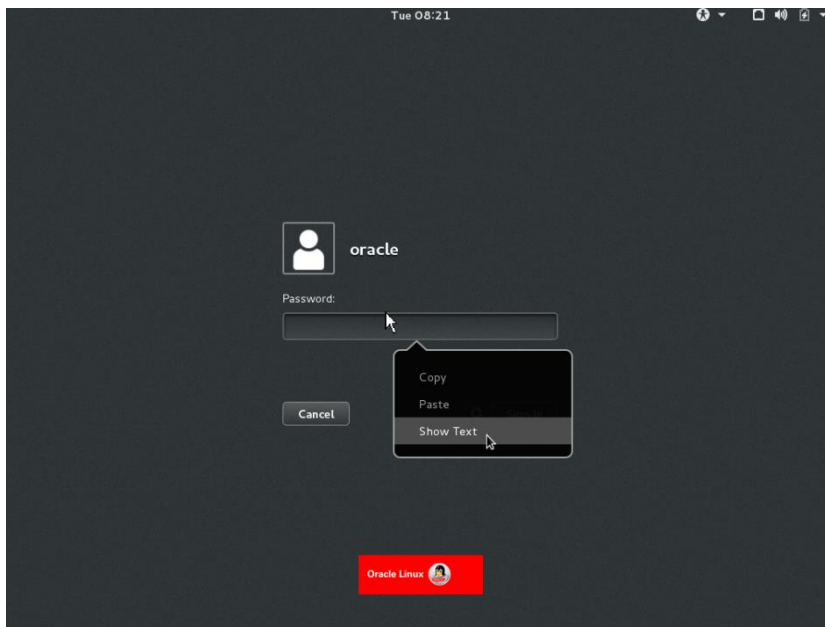
Continue by starting the docker containers as described in the section after the next “**Starting the Docker Containers (Infra, Config, Samples, Services)**”

Second time and next

- Start the image from Virtual Box

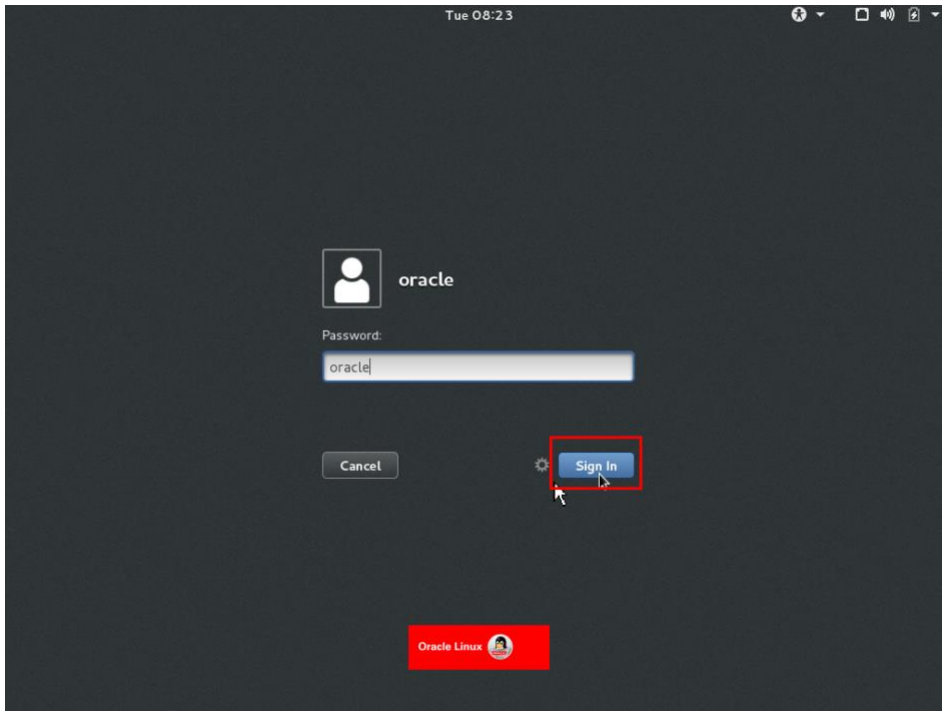


- Click on **oracle**

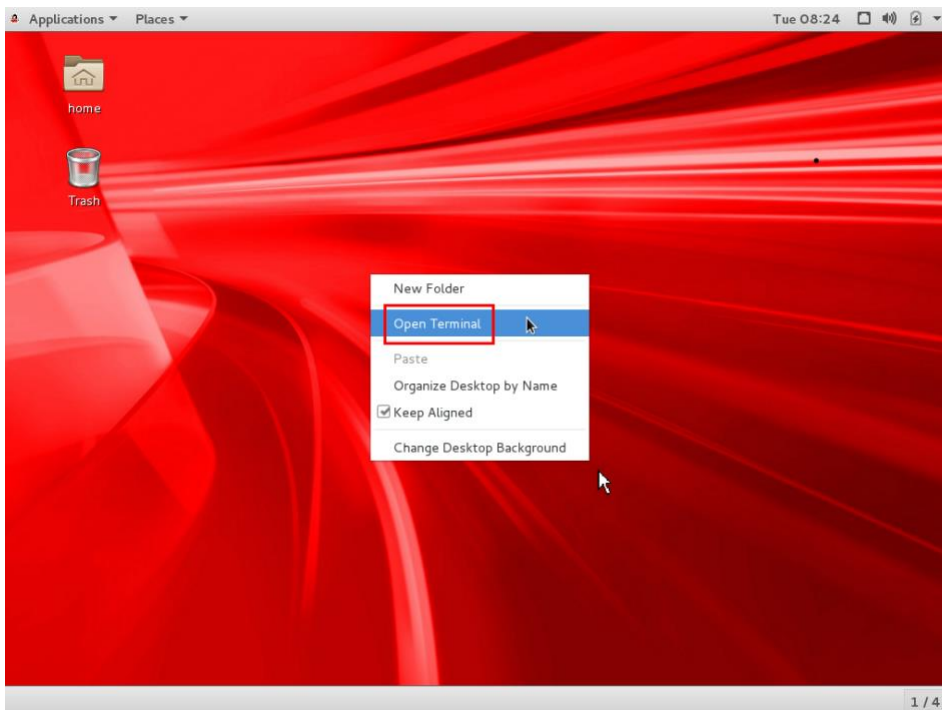


You can right-click into the **password** field and select **Show Text**

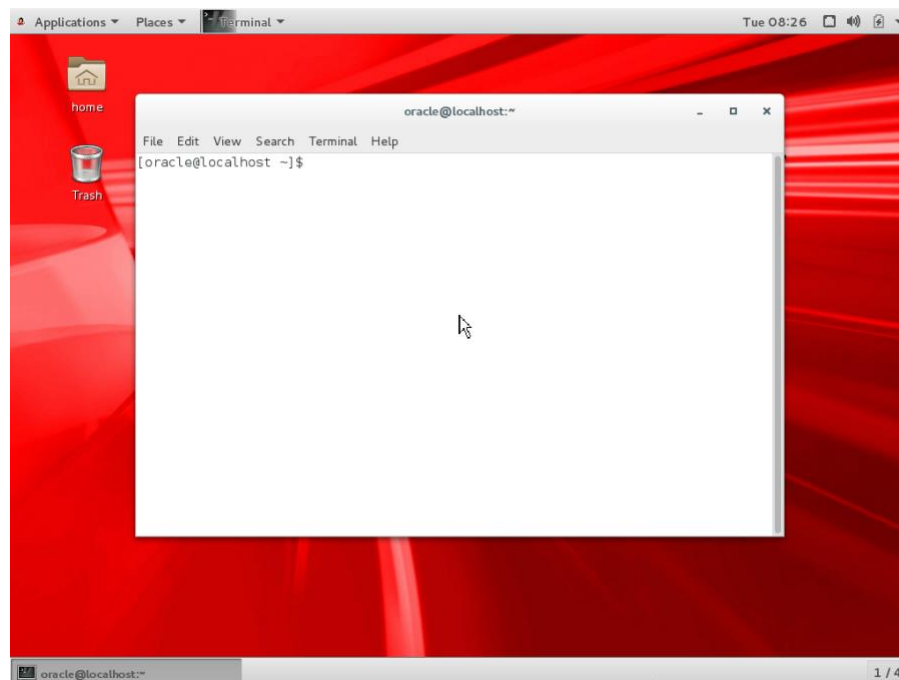
- Enter the password: **oracle** (qwerty keyboard)



- Click **Sign In**
- Right-click into the Desktop and select **Open Terminal**

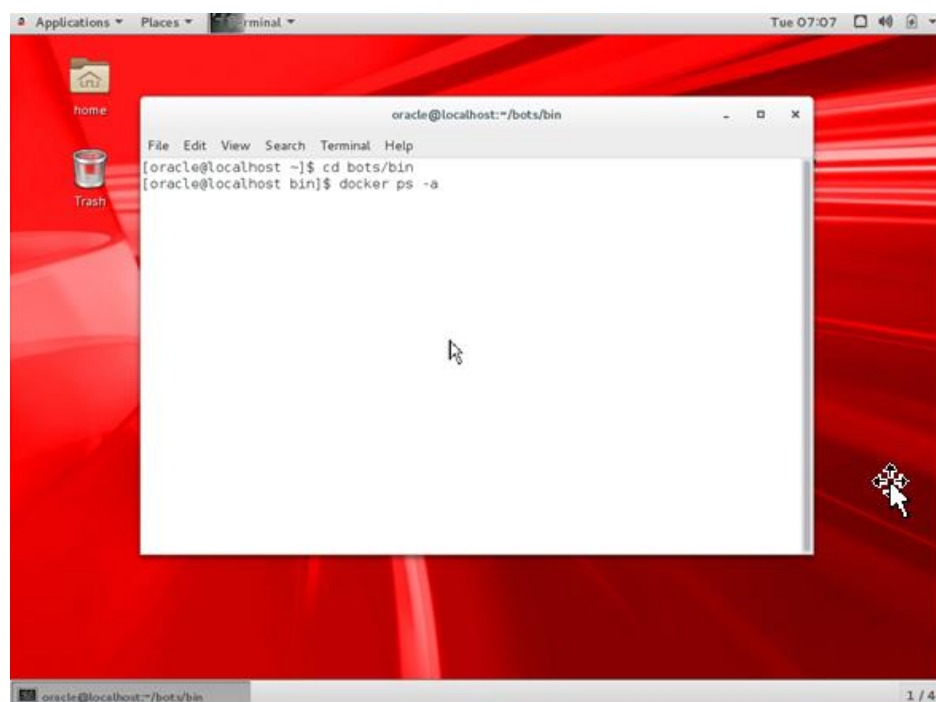


A Terminal window opens



- Type:

\$ docker ps -a



The list of the already created docker containers displays

CONTAINER ID	IMAGE	CREATED	STATUS	PORTS	NAMES
8d4cc077316e	bot-build-docker-local.docker.oraclecorp.com/bots-samples-nodejs	4 days ago	Exited (0) 4 days ago	17.4.5	bots-s
7fb0dc2c46fd	bot-build-docker-local.docker.oraclecorp.com/bots-config	4 days ago	Exited (0) 4 days ago	17.4.5	bots-c
44da2e3ac5a9	bot-build-docker-local.docker.oraclecorp.com/bots-pipeline	4 days ago	Exited (0) 4 days ago	17.4.5	bots-p
5d60183e62cc	bot-build-docker-local.docker.oraclecorp.com/bots-management-apis	4 days ago	Exited (0) 4 days ago	17.4.5	bots-m
05a2809bfe8c	bot-build-docker-local.docker.oraclecorp.com/bots-qna-server	4 days ago	Exited (0) 4 days ago	17.4.5	bots-q
107a43350bab	bot-build-docker-local.docker.oraclecorp.com/bots-intent-server	4 days ago	Exited (0) 4 days ago	17.4.5	bots-l
1d1f5dc81e2f	bot-build-docker-local.docker.oraclecorp.com/bots-connectors	4 days ago	Exited (0) 4 days ago	17.4.5	bots-c
8b11a5ebfb21	bot-build-docker-local.docker.oraclecorp.com/bots-repository	4 days ago	Exited (0) 4 days ago	17.4.5	bots-r
c1cedbcf94c8	bot-build-docker-local.docker.oraclecorp.com/bots-storage	4 days ago	Exited (0) 4 days ago	17.4.5	bots-s
e8a768102a4d	bot-build-docker-local.docker.oraclecorp.com/bots-message-queue	4 days ago	Exited (0) 4 days ago	17.4.5	bots-m
6e23b78e82ee	bot-build-docker-local.docker.oraclecorp.com/bots-otd	4 days ago	Exited (0) 4 days ago	17.4.5	bots-o

Continue by starting the docker containers as described in the next section.

Starting the Docker Containers (Infra, Config, Samples, Services)

- Log in as oracle is not already

```
$sudo su - oracle
```

- Go to the bots bin directory

```
$cd bots_home/bin
```

Start Infra containers

```
$./bots.sh startInfra
```

```

oracle@localhost:~/bots_home/bin
File Edit View Search Terminal Help
bots-repository
c1cedbcf94c8 bot-build-docker-local.docker.oraclecorp.com/bots-storage:17.4.5
"/bootstrap.sh" 4 days ago Exited (0) 4 days ago
bots-storage
e8a768102a4d bot-build-docker-local.docker.oraclecorp.com/bots-message-queue:17.4.5
"/bootstrap.sh" 4 days ago Exited (0) 4 days ago
bots-message-queue
6e23b78e82ee bot-build-docker-local.docker.oraclecorp.com/bots-otd:17.4.5
"/opt/cloudgate/scrip" 4 days ago Exited (0) 4 days ago
bots-otd
[oracle@localhost ~]$
[oracle@localhost ~]$ cd bots_home/bin
[oracle@localhost bin]$ ./bots.sh startInfra
BOTS_HOME /home/oracle/bots_home/bin/..
#####
Starting bots infra service
Starting bots-repository
Starting bots-otd
Starting bots-message-queue
Starting bots-storage
Started successfully
Check Health
[oracle@localhost bin]$

```

The following containers are started:

- bots-repository
- bots-otd
- bots-message-queue
- bots-storage

Start Config

`$. /bots.sh startConfig`

```
[oracle@localhost bin]$ ./bots.sh startConfig
BOTS_HOME /home/oracle/bots_home/bin/..
Wait for Storage Server to be available
#####
Starting bots config
pullImage
WARNING: The DBAAS_REUSE_EXISTING_SCHEMA variable is not set. Defaulting to a blank string.
WARNING: Found orphan containers (bots-repository, bots-storage, bots-message-queue, bots-otd) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphans flag to clean it up.
Starting bots-config
Infra config Started successfully
Wait for Config to be available
Check Health
[oracle@localhost bin]$
```

The following container is started:

- bots-config

Start Samples

`$. /bots.sh startSamples`

```
[oracle@localhost bin]$ ./bots.sh startSamples
BOTS_HOME /home/oracle/bots_home/bin/..
#####
Starting bots samples
pullImage bot-build-docker-local.docker.oraclecorp.com/bots-samples-nodejs:17.4.5
WARNING: Found orphan containers (bots-config, bots-repository, bots-storage, bots-message-queue, bots-otd) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphans flag to clean it up.
Starting bots-samples-nodejs
Started successfully
[oracle@localhost bin]$
```

The following container is started:

- bots-samples-nodejs

Start Services containers

`$. /bots.sh startServices`

```
[oracle@localhost bin]$ ./bots.sh startServices
BOTS_HOME /home/oracle/bots_home/bin/..
#####
Starting bots service
WARNING: Found orphan containers (bots-samples-nodejs, bots-config, bots-repository, bots-storage, bots-message-queue, bots-otd) for this project. If you removed or renamed this service in your compose file, you can run this command with the --remove-orphans flag to clean it up.
Starting bots-connectors
Starting bots-qna-server
Starting bots-intent-server
Starting bots-pipeline
Starting bots-management-apis
Started successfully
Check Health
[oracle@localhost bin]$
```

The following containers are started:

- bots-connectors
 - bots-qna-server
 - bots-intent-server
 - bots-pipeline
 - bots-management-apis
- You can check if the containers are started by issuing a :

\$docker ps -a

```

      NAMES
8d4cc077316e   bot-build-docker-local.docker.oraclecorp.com/bots-samples-nodejs:17.4.5   "/bootstrap.sh"
      4 days ago      Up 3 minutes      0.0.0.0:5858->5858/tcp, 0.0.0.0:8888-8889->88
88-8889/tcp
7fb0dc2c46fd   bot-build-docker-local.docker.oraclecorp.com/bots-config:17.4.5           "/u01/apaas/bin/a
ccs_" 4 days ago      Up 4 minutes      (health: starting) 4040/tcp, 7077/tcp, 8080/tcp, 0.0.0.0:6805->6
800/tcp
44da2e3ac5a9   bot-build-docker-local.docker.oraclecorp.com/bots-pipeline:17.4.5         "/u01/apaas/bin/a
ccs_" 4 days ago      Up About a minute (health: starting) 4040/tcp, 7077/tcp, 8080/tcp, 0.0.0.0:6802->6
800/tcp
5d60183e62cc   bot-build-docker-local.docker.oraclecorp.com/bots-management-apis:17.4.5   "/u01/apaas/bin/a
ccs_" 4 days ago      Up About a minute (health: starting) 4040/tcp, 7077/tcp, 8080/tcp, 0.0.0.0:6804->6
800/tcp, 0.0.0.0:8080->8080/tcp
05a2809bfe8c   bot-build-docker-local.docker.oraclecorp.com/bots-qna-server:17.4.5       "/u01/apaas/bin/a
ccs_" 4 days ago      Up About a minute (health: starting) 4040/tcp, 7077/tcp, 8080/tcp, 0.0.0.0:6808->6
800/tcp, 0.0.0.0:9000->8000/tcp
107a43350bab   bot-build-docker-local.docker.oraclecorp.com/bots-intent-server:17.4.5     "/u01/apaas/bin/a
ccs_" 4 days ago      Up About a minute (health: starting) 4040/tcp, 0.0.0.0:7077->7077/tcp, 0.0.0.0:680
3->6800/tcp, 0.0.0.0:8087->8080/tcp, 0.0.0.0:8090->8080/tcp
1d1f5dc81e2f   bot-build-docker-local.docker.oraclecorp.com/bots-connectors:17.4.5       "/u01/apaas/bin/a
ccs_" 4 days ago      Up 2 minutes      (health: starting) 4040/tcp, 7077/tcp, 8080/tcp, 0.0.0.0:6801->6
800/tcp, 0.0.0.0:8800->8000/tcp
8b11a5ebfb21   bot-build-docker-local.docker.oraclecorp.com/bots-repository:17.4.5        "/bootstrap.sh"
      4 days ago      Up 6 minutes      0.0.0.0:1521->1521/tcp, 6800/tcp, 0.0.0.0:808
1->8080/tcp
clcedbcf94c8   bot-build-docker-local.docker.oraclecorp.com/bots-storage:17.4.5          "/bootstrap.sh"
      4 days ago      Up 6 minutes      0.0.0.0:8181->8181/tcp, 0.0.0.0:6806->6800/tc
p
e8a768102a4d   bot-build-docker-local.docker.oraclecorp.com/bots-message-queue:17.4.5     "/bootstrap.sh"
      4 days ago      Up 6 minutes      0.0.0.0:2181->2181/tcp, 0.0.0.0:9092->9092/tc
p, 6800/tcp
6e23b78e82ee   bot-build-docker-local.docker.oraclecorp.com/bots-otd:17.4.5              "/opt/cloudgate/s
crip" 4 days ago      Up 6 minutes      0.0.0.0:9989-9994->9989-9994/tcp
      bots-otd
[oracle@localhost bin]$
```

You see that the 5 Services containers and the Config container are still in **starting** status.

You have to wait a while (~10-15 minutes) to get them completely started => Status showing **Unhealthy**

You can also check the log of a specific container. First right-click the CONTAINER ID and select Copy. Then enter **docker logs <CONTAINER NAME> | more**



```
oracle@localhost:~/bots_home/bin

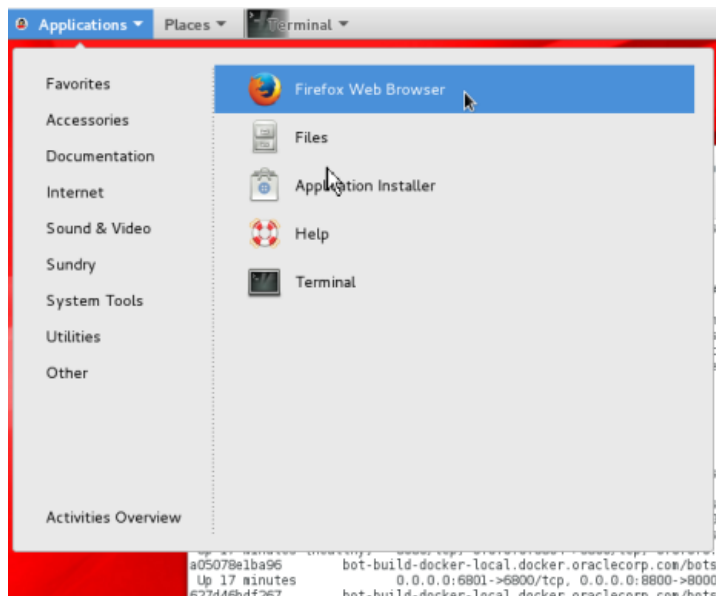
File Edit View Search Terminal Help

[oracle@localhost bin]$ docker logs bots-pipeline | more
++ '[' -z oracle.cloud.bots.pipeline.PipelineHost ']'
++ '[' oracle.cloud.bots.pipeline.PipelineHost = null ']'
++ set +x
++ java -Xms256m -Xmx5G -Dhttps.proxyHost=www-proxy-hqdc.us.oracle.com -Dhttp.proxyPort=80 '-Dhttp.nonProxyHosts=
=localhost[127.*]*.*.oracle.com|*.oraclecorp.com|bots-*|docker.for.mac.localhost|*.oraclecloud.com|*.us.psrdev.oc9
qadev.com|*.identity.c9dev0.oc9qadev.com|bots-storage|bots-intent-server|*.bots-intent-server|bots-connectors' -D
Dhttp.proxyHost=www-proxy-hqdc.us.oracle.com -Dhttps.proxyPort=80 -Djava.net.preferIPv4Stack=true -Djava.securit
y.egd=file:/dev/./urandom -Djava.util.logging.config.class=oracle.core.ojdl.logging.LoggingConfiguration -Doracle
e.core.ojdl.logging.componentId=Bots -Doracle.core.ojdl.logging.config.file=/u01/app/config/logging.xml -Dbots.c
onfig.dir=config -Dbots.server=bots-pipeline -Doracle.security.jps.config=/u01/app/opss_instances/mobile_suite/c
onfig/jps-config.xml -Djavax.net.ssl.trustStore=/u01/app/config/idcsacert.jks -cp bots-pipeline-all-17.4.5_1711
190709.jar oracle.cloud.bots.pipeline.PipelineHost
chmod: changing permissions of '/u01/app/bin/startup.sh': Operation not permitted
++ '[' -z oracle.cloud.bots.pipeline.PipelineHost ']'
++ '[' oracle.cloud.bots.pipeline.PipelineHost = null ']'
++ set +x
++ java -Xms256m -Xmx5G -Djava.util.logging.config.class=oracle.core.ojdl.logging.LoggingConfiguration -Doracle
e.core.ojdl.logging.componentId=Bots -Doracle.core.ojdl.logging.config.file=/u01/app/config/logging.xml -Dbots.con
fig.dir=config -Dbots.server=bots-pipeline -Doracle.security.jps.config=/u01/app/opss_instances/mobile_suite/con
fig/jps-config.xml -Djavax.net.ssl.trustStore=/u01/app/config/idcsacert.jks -cp bots-pipeline-all-17.4.5_171119
0709.jar oracle.cloud.bots.pipeline.PipelineHost
++ start accs_pre_startup ++
++ Done accs_pre_startup.sh ++
++ start accs_startup ++
*****
** Starting Server
*****
Linux 44da2e3ac5a9 4.1.12-94.3.6.el7uek.x86_64 #2 SMP Tue May 30 19:25:15 PDT 2017 x86_64 x86_64 GNU/Linu
x
{
  "runtime": {
    "majorVersion": "8"
  },
  "release": {
rmine the audit log directory. No log directory specified.
[2017-12-03T08:54:48.495+00:00] [Bots] [NOTIFICATION] [] [oracle.jps.config] [host: 44da2e3ac5a9] [nwaddr: 172.1
8.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] JpsUtil: isAuditDisabled set to tr
ue
[2017-12-03T08:54:48.496+00:00] [Bots] [WARNING] [JPS-00244] [oracle.jps.common] [host: 44da2e3ac5a9] [nwaddr: 1
72.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] No audit log directory is set.
Cannot perform audit operations for component JPS.
[2017-12-03T08:55:04.818+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.persistence.session.chatbot-tenant] [host:
44da2e3ac5a9] [nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Eclip
seLink, version: Eclipse Persistence Services - 2.6.4.v20160829-44060b6
[2017-12-03T08:55:04.824+00:00] [Bots] [NOTIFICATION] [] [oracle.ucp.common.UniversalConnectionPoolBase] [host:
44da2e3ac5a9] [nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Inacti
ve connection timeout timer scheduled
[2017-12-03T08:55:07.515+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.persistence.session.chatbot-tenant.connect
ion] [host: 44da2e3ac5a9] [nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp0000
01,0] chatbot-tenant login successful
[2017-12-03T08:55:09.707+00:00] [Bots] [NOTIFICATION] [BOTS-50127] [oracle.cloud.bots] [host: 44da2e3ac5a9] [nwa
ddr: 172.18.0.11] [tid: 36] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0:3] Timer Expired Session
Task scheduled to repeat every 86,400,000 MILLISECONDS
[2017-12-03T08:55:09.928+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.jetty.server.Server] [host: 44da2e3ac5a9]
[nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] jetty-9.4.z-SNAPSHOT
[2017-12-03T08:55:10.491+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.jetty.server.handler.ContextHandler] [host
: 44da2e3ac5a9] [nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Star
ted o.e.j.s.ServletContextHandler@7e757383(/,null,AVAILABLE)
[2017-12-03T08:55:10.514+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.jetty.server.AbstractConnector] [host: 44d
a2e3ac5a9] [nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Started S
erverConnector@a916734[HTTP/1.1,{http/1.1}]{0.0.0.0:8080}
[2017-12-03T08:55:10.516+00:00] [Bots] [NOTIFICATION] [] [org.eclipse.jetty.server.Server] [host: 44da2e3ac5a9]
[nwaddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Started @141994ms
[2017-12-03T08:55:10.518+00:00] [Bots] [NOTIFICATION] [BOTS-50140] [oracle.cloud.bots] [host: 44da2e3ac5a9] [nwa
ddr: 172.18.0.11] [tid: 1] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0] Dialog Engine started
[2017-12-03T08:55:12.778+00:00] [Bots] [NOTIFICATION] [BOTS-50127] [oracle.cloud.bots] [host: 44da2e3ac5a9] [nwa
ddr: 172.18.0.11] [tid: 43] [userId: apaas] [ecid: 0000M0R_4B0Fw0K6yVaeMG1Q8vhp000001,0:10] Timer Expired Sessio
n Task scheduled to repeat every 86,400,000 MILLISECONDS
[oracle@localhost bin]$
```

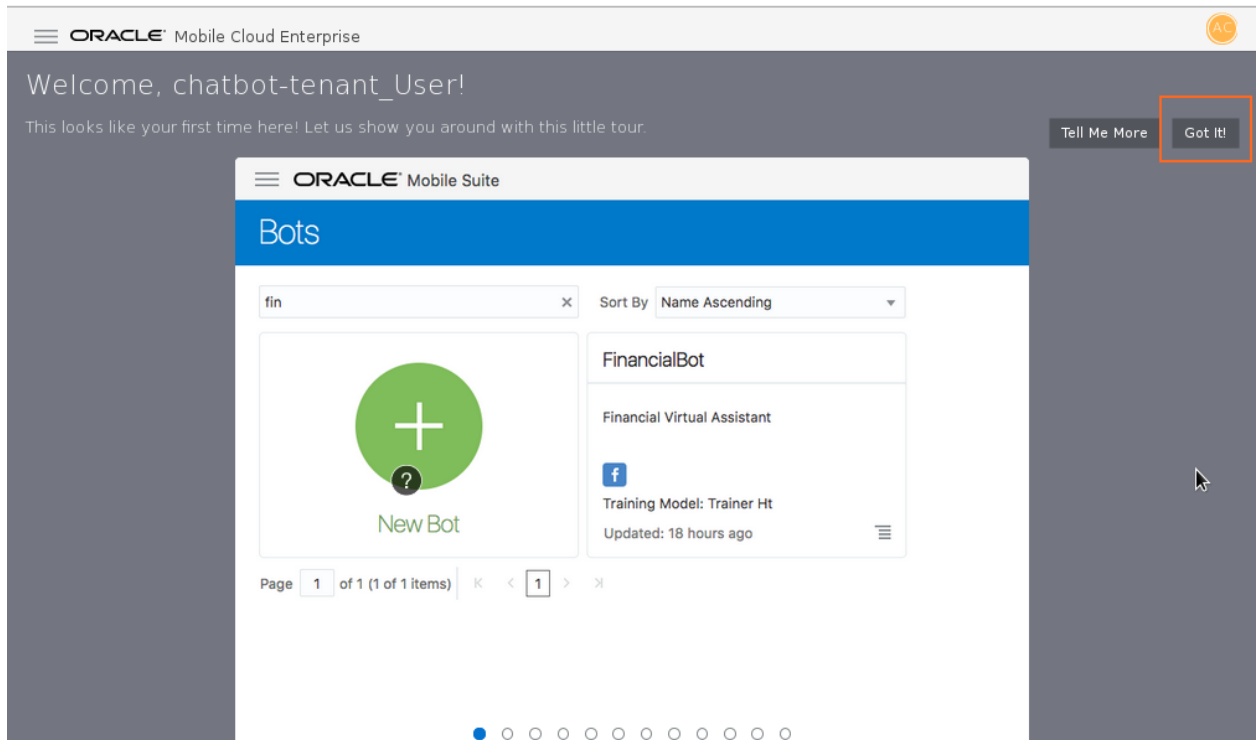
- After a while you can see that all the containers are started
 - Ignore “Unhealthy” in this version. Containers are up.

oracle@localhost:~/bots_home/bin					
File Edit View Search Terminal Help					
CONTAINER ID	IMAGE	STATUS	PORTS	COMMAND	
NAMES					
7ffd0da8f0dd	bot-build-docker-local	Up 21 minutes	docker.oraclecorp.com/bots-pipeline:1.1	"/u01/apaas/bin/a	
ccs_	2 weeks ago	(unhealthy)	0.0.0.0:6802->6800/tcp		
bots-pipeline					
fe8ba8094f6	bot-build-docker-local	Up 21 minutes	docker.oraclecorp.com/bots-management-apis:1.1	"/u01/apaas/bin/a	
ccs_	2 weeks ago	(unhealthy)	0.0.0.0:6804->6800/tcp, 0.0.0.0:8080->8000/tcp		
bots-management-apis					
7cd93290c9bd	bot-build-docker-local	Up 21 minutes	docker.oraclecorp.com/bots-intent-server:1.1	"/u01/apaas/bin/a	
ccs_	2 weeks ago	(unhealthy)	0.0.0.0:6803->6800/tcp, 0.0.0.0:8087->8000/tcp		
bots-intent-server					
062a5dbf089e	bot-build-docker-local	Up 21 minutes	docker.oraclecorp.com/bots-connectors:1.1	"/u01/apaas/bin/a	
ccs_	2 weeks ago	(unhealthy)	0.0.0.0:6801->6800/tcp, 0.0.0.0:8080->8000/tcp		
bots-connectors					
c3a556f3455f	bot-build-docker-local	Up 21 minutes	docker.oraclecorp.com/bots-config:1.1	"/u01/apaas/bin/a	
ccs_	2 weeks ago	(unhealthy)	0.0.0.0:6805->6800/tcp		
bots-config					
31196605cb72	bot-build-docker-local	Up 23 minutes	docker.oraclecorp.com/bots-samples-nodejs:1.1	"/bootstrap.sh"	
tcp	2 weeks ago		0.0.0.0:5858->5858/tcp, 0.0.0.0:8888-8889->8888-8889/		
bots-samples-nodejs					
622236b1438d	bot-build-docker-local	Up 26 minutes	docker.oraclecorp.com/bots-storage:1.1	"/bootstrap.sh"	
tcp	2 weeks ago		0.0.0.0:8181->8181/tcp, 0.0.0.0:6806->6800/tcp		
bots-storage					
b625cf3d3105	bot-build-docker-local	Up 26 minutes	docker.oraclecorp.com/bots-message-queue:1.1	"/bootstrap.sh"	
tcp	2 weeks ago		0.0.0.0:2181->2181/tcp, 0.0.0.0:9092->9092/tcp, 6800/		
bots-message-queue					
2622fadc9d1f	bot-build-docker-local	Up 26 minutes	docker.oraclecorp.com/bots-otd:1.1	"/opt/cloudgate/s	
crip"	2 weeks ago		0.0.0.0:9989-9994->9989-9994/tcp		
bots-otd					
b965b4c011fa	bot-build-docker-local	Up 26 minutes	docker.oraclecorp.com/bots-repository:1.1	"/bootstrap.sh"	
tcp	2 weeks ago		0.0.0.0:1521->1521/tcp, 6800/tcp, 0.0.0.0:8081->8080/		
bots-repository					
[oracle@localhost bin]\$					

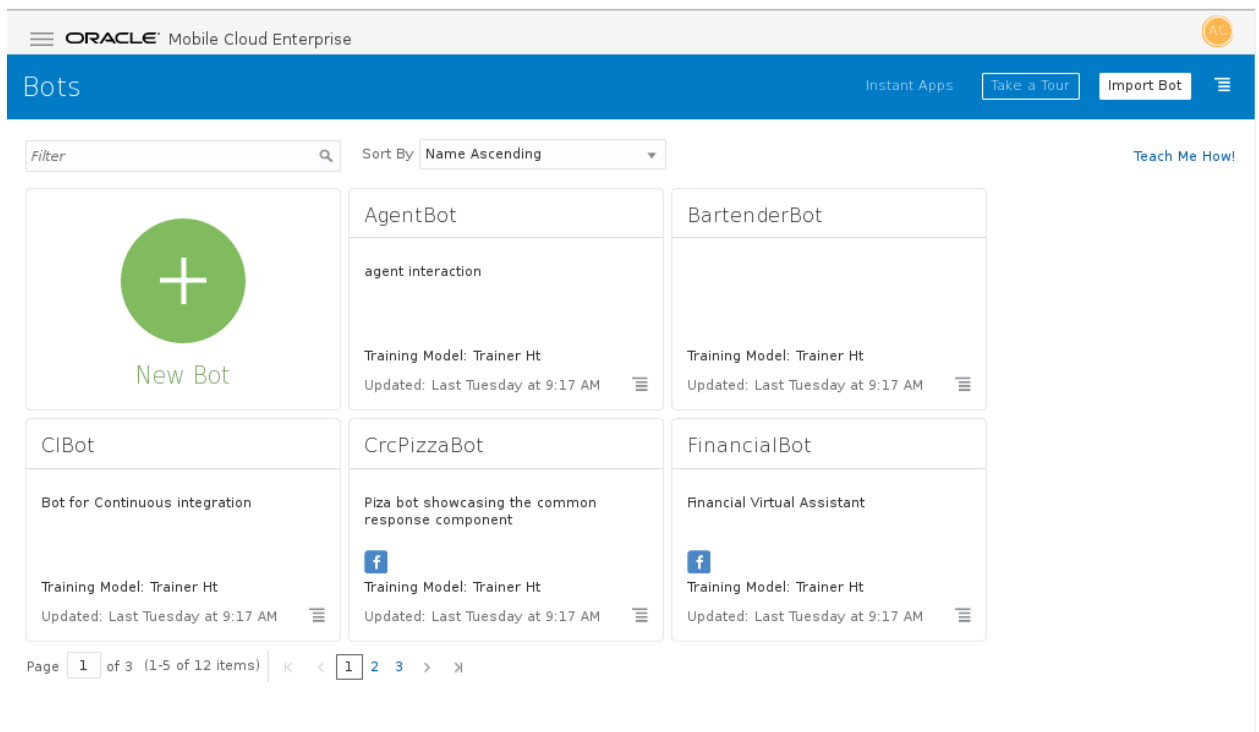
- Launch Firefox



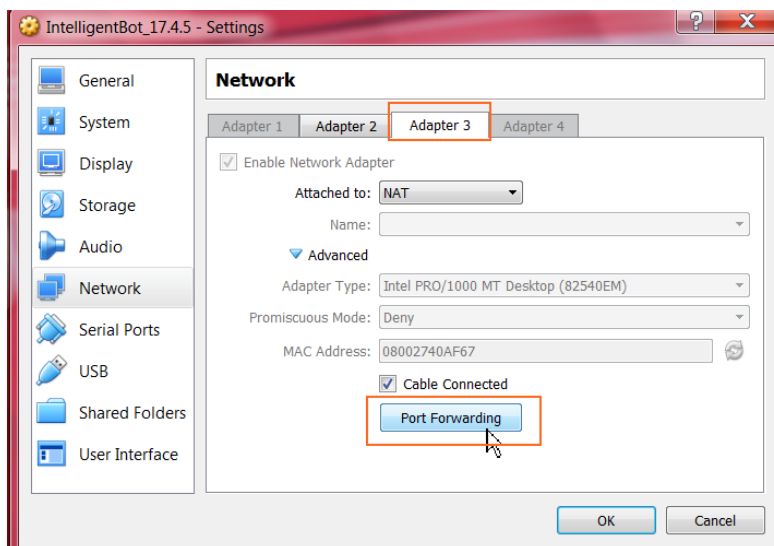
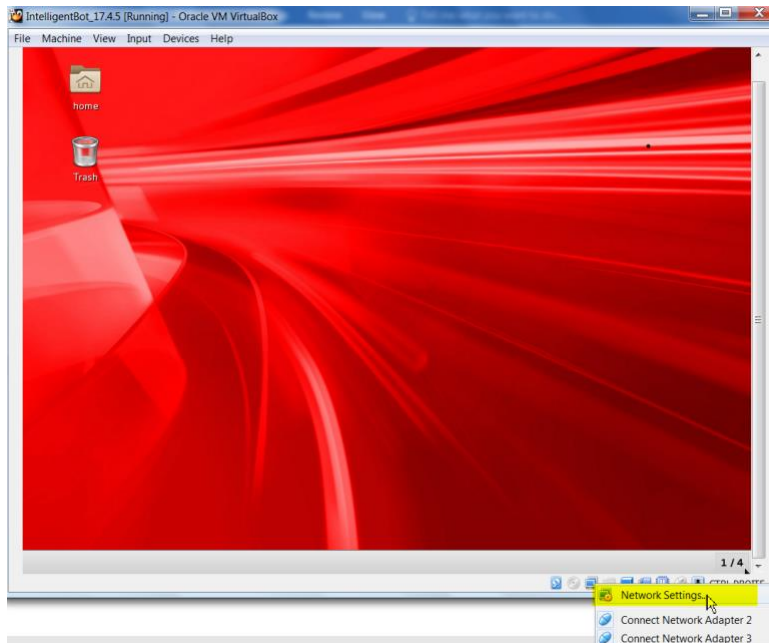
- Check if you can access the Bots UI by running <http://localhost:8080/botsui/bot> in the browser

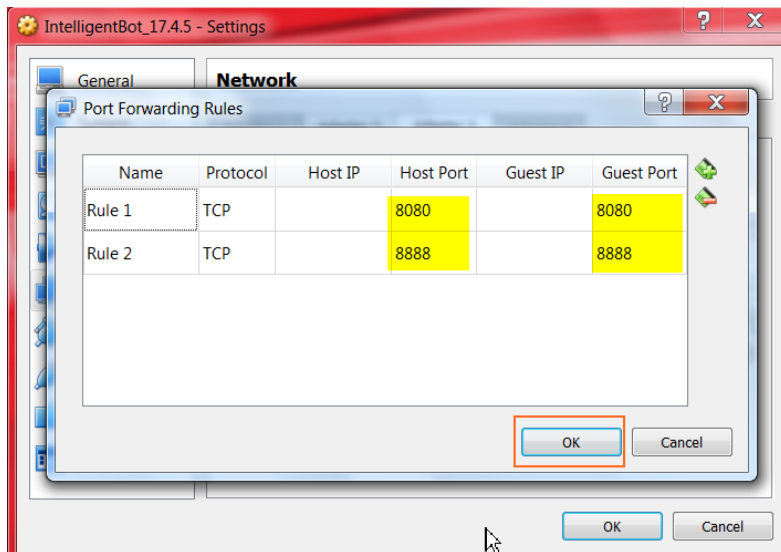


- Click "Got It" to display the list of sample bots

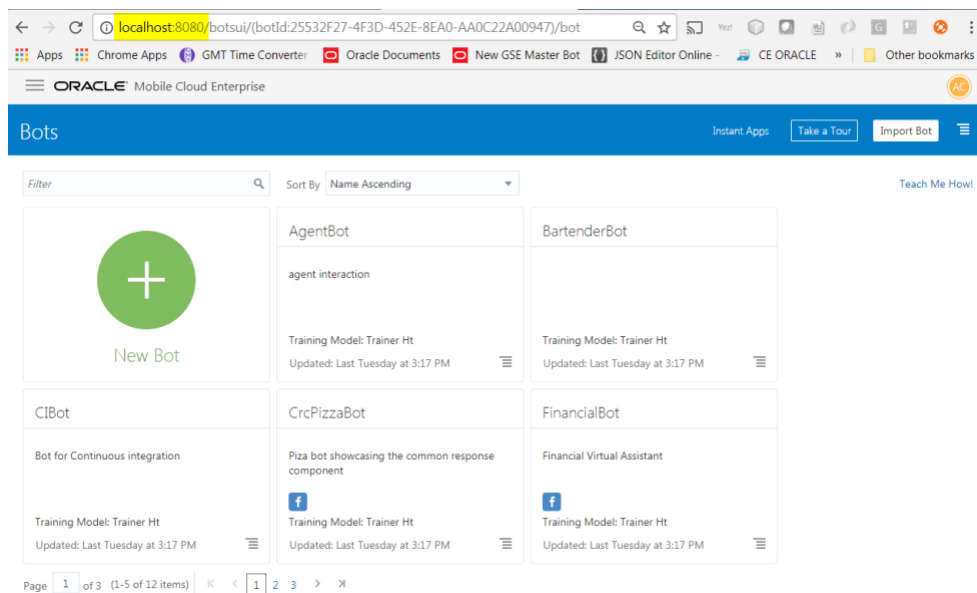


Enable Port Forwarding (for 8080 and 8888) on NAT network





- Try to access the Bots UI from your host using <http://localhost:8080/botsui/bot>
 - **You need to be disconnected from VPN for enabling Instant Apps**



- Try to access Bots resource from your host using <http://localhost:8888>

Username: MyTestUser
Password: MyTestPassword

Invoking Custom Components

Running on Other Channels

Supporting Other Chat Apps

Creating Dialog Flows Visually

Recreating Sample Bots

Resource List

Invoking Custom Components

Custom components provide your bot with business logic and data. A REST-based service known as the Component Service hosts the custom components and invokes them for your bot. Use these resources to develop your own Component Service.

[JS SDK Documentation](#)

You can implement your Component Service in any language. To help you out with implementing it in JavaScript, use the Javascript-based SDK.

This document shows you how the SDK abstracts the implementation of the service.

Javascript SDK v1.1 Documentation

Starter Node.js App

Use this app to implement your Custom Component Service in Node.js Express.

ExpressJS Starter App

Starter Custom Code API App

To implement your Component Service as Oracle Mobile Cloud, Enterprise (OMCe) custom code API, use this app.

MCE Custom Code Starter App

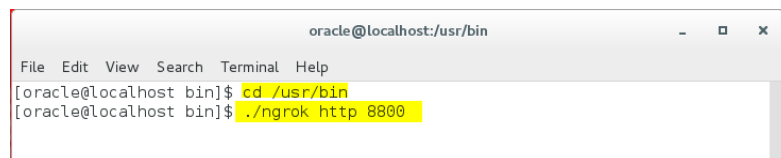
Upgrade Custom Component Service to V1.1

Start ngrok in the VM

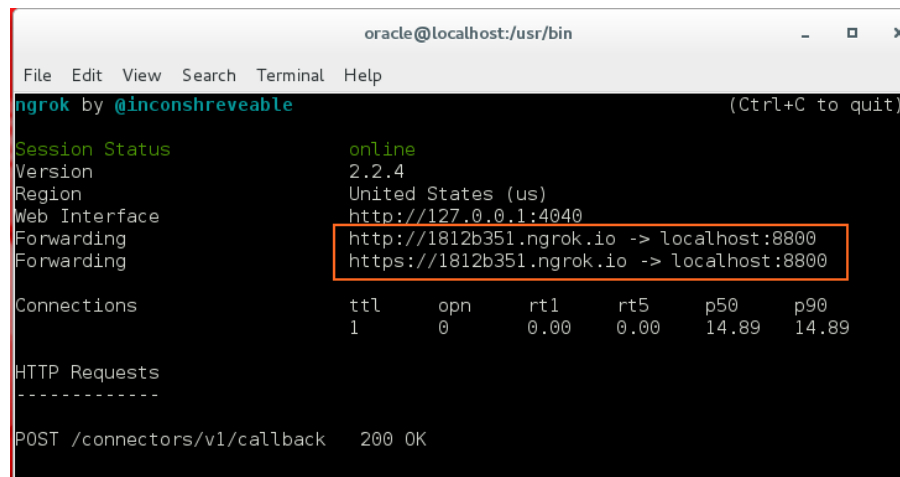
**** If you're disconnected from VPN, you will have to unset http_proxy & https_proxy**

```
LESSOPEN=||/usr/bin/lesspipe.sh %s
WINDOWPATH=1
XDG_RUNTIME_DIR=/run/user/1000
DISPLAY=:0
XDG_CURRENT_DESKTOP=GNOME-Classic:GNOME
XAUTHORITY=/run/gdm/auth-for-oracle-xXKqB4/database
_=usr/bin/env
[oracle@localhost bin]$ unset http_proxy
[oracle@localhost bin]$ unset https_proxy
[oracle@localhost bin]$
```

- Start ngrok for port 8800
 - You will need it for instance to config Instant Apps callback



```
oracle@localhost:/usr/bin
File Edit View Search Terminal Help
[oracle@localhost bin]$ cd /usr/bin
[oracle@localhost bin]$ ./ngrok http 8800
```



```
oracle@localhost:/usr/bin
File Edit View Search Terminal Help
ngrok by @inconshreveable (Ctrl+C to quit)

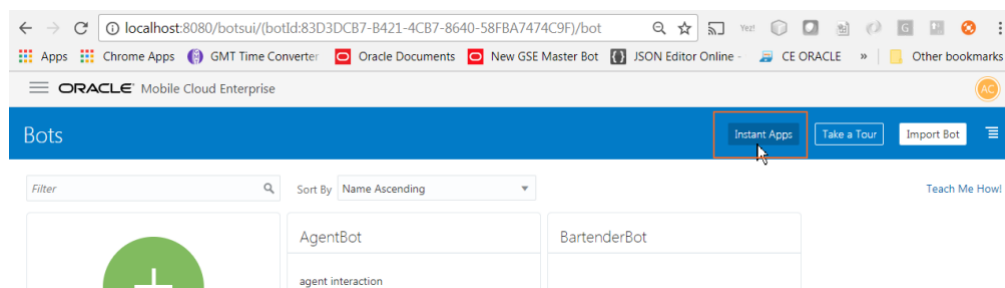
Session Status      online
Version             2.2.4
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding            http://1812b351.ngrok.io -> localhost:8800
                    https://1812b351.ngrok.io -> localhost:8800

Connections          ttl    opn    rt1    rt5    p50    p90
                    1      0      0.00   0.00   14.89   14.89

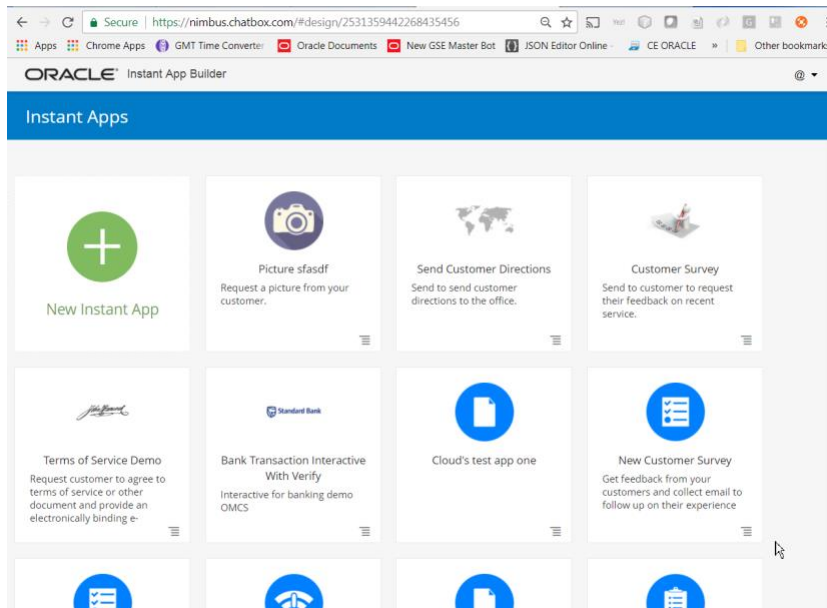
HTTP Requests
-----
POST /connectors/v1/callback 200 OK
```

Configuring Instant Apps

- First enable Instant Apps in Intelligent Bot UI



- Click on *Instant Apps*



- Configure Instant Apps callback by using using cURL or Postman
 - First do a GET <http://localhost:8080/management-api/v1/settings> for getting the attributes values
 - Then do a PUT <http://localhost:8080/management-api/v1/settings> with the following body
 - Check and modify the values (bold red) from the response got with the above GET
 - Use the ngrok you started for port 8800 in previous step

```
{
  "id": "default",
  "settings": {
    "configProperties": {
      "chatbox.urls.callback": "http://1812b351.ngrok.io/connectors/v1/callback?state={stateValue}"
    },
    "chatbox": {
      "baseUrl": "https://nimbus.chatbox.com/omcs/1.0",
      "externalOrgId": "chatbot-tenant",
      "name": "chatbot-tenant",
      "orgId": 49
    }
  }
}
```

http://localhost:8080/management-api/v1/settings PUT URL params Headers (1)

Content-Type application/json Manage presets

Header	Value
--------	-------

form-data x-www-form-urlencoded raw JSON

```

1 {
2   "id": "default",
3   "settings": {
4     "configProperties": {
5       "chatbox.urls.callback": "http://1812b351.ngrok.io/connectors/v1/callback?state={stateValue}"
6     },
7     "chatbox": {
8       "baseUrl": "https://nimbus.chatbox.com/omcs/1.0",
9       "externalOrgId": "chatbot-tenant",
10      "name": "chatbot-tenant",
11      "orgId": 49
12    }
13  }
14 }
15

```

Send Preview Add to collection Reset

Body Headers (5) STATUS 200 OK TIME 23 ms

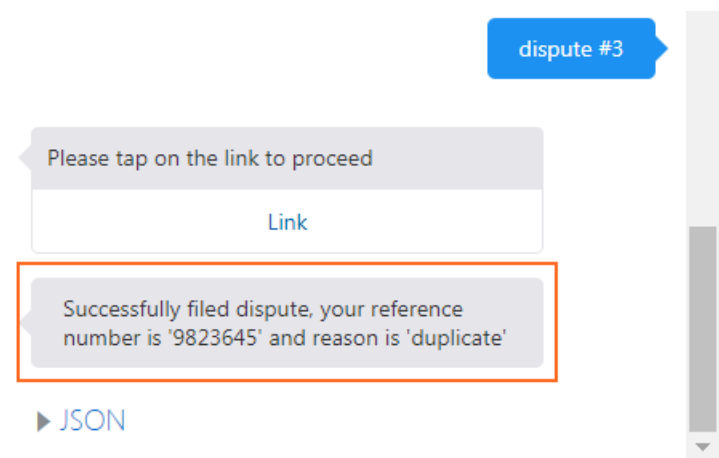
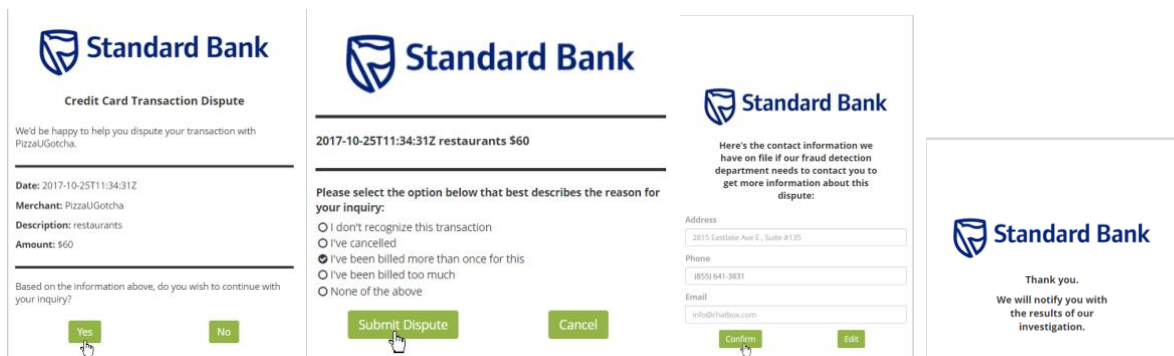
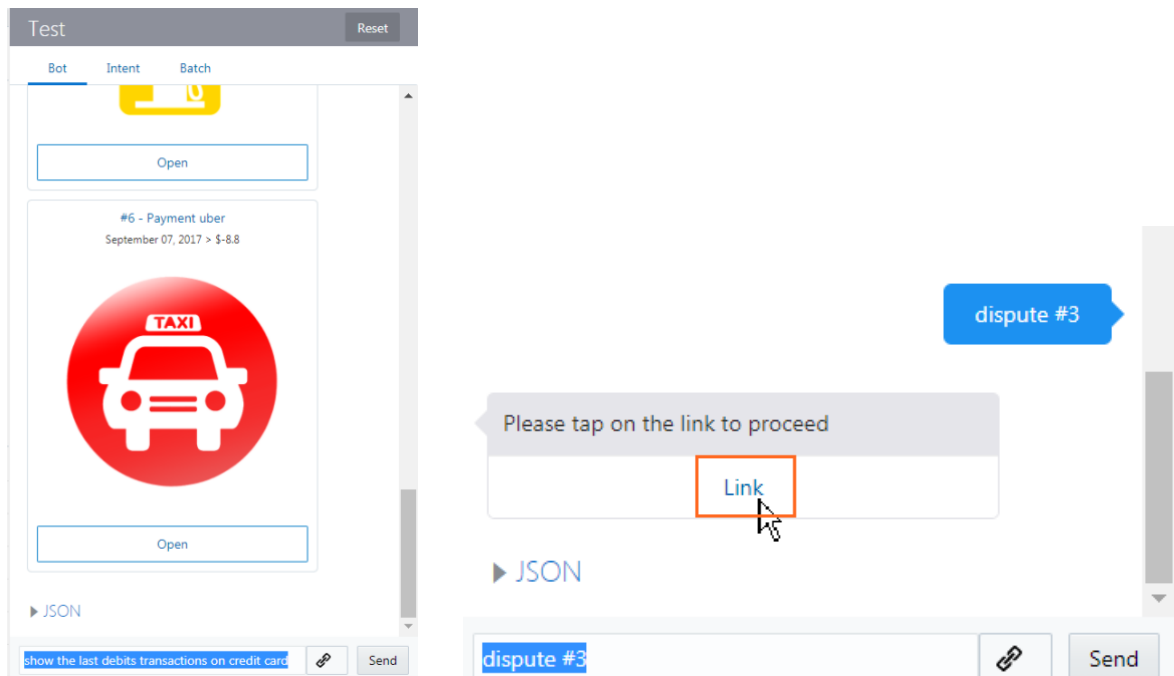
Pretty Raw Preview JSON XML

```

1 {
2   "createdOn": "2017-12-03T10:21:21.173Z",
3   "updatedOn": "2017-12-03T11:05:46.829Z",
4   "links": [
5     {
6       "rel": "self",
7       "href": "http://localhost:8080/management-api/v1/settings"
8     },
9     {
10      "rel": "canonical",
11      "href": "http://localhost:8080/management-api/v1/settings"
12    }
13  ],
14   "id": "default",
15   "settings": {
16     "configProperties": {
17       "chatbox.urls.callback": "http://1812b351.ngrok.io/connectors/v1/callback?state={stateValue}"
18     },
19     "chatbox": {
20       "baseUrl": "https://nimbus.chatbox.com/omcs/1.0",
21       "externalOrgId": "chatbot-tenant",
22       "name": "chatbot-tenant",
23       "orgId": 49
24     }
25  }
26 }

```

- Test the FinancialBot (Enter *show the last debits transactions on credit card*)



Before to shutdown the Virtual Box

Before to shutdown the VM, better to stop the containers as follows:

- Open a terminal window
- Log in with oracle if not yet

```
$sudo su - oracle
```

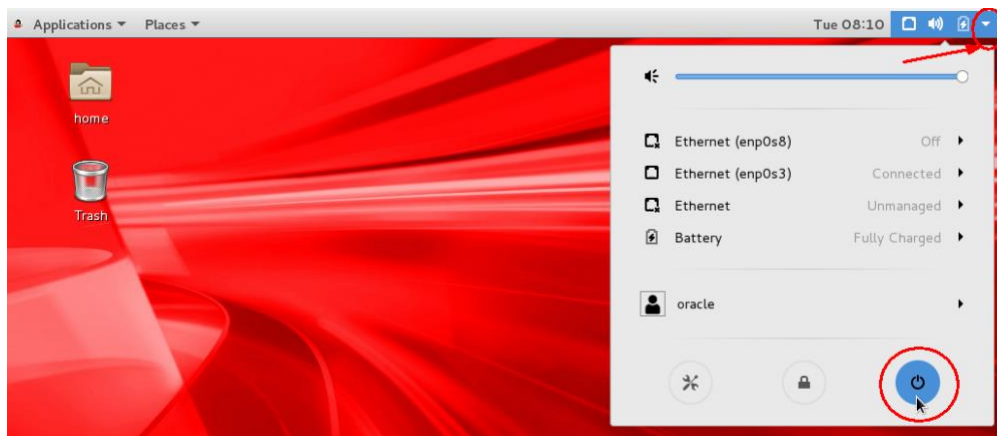
- Log Stop the containers (reverse order than to start)

```
$/bots.sh stopServices  
$/bots.sh stopSamples  
$/bots.sh stopConfig  
$/bots.sh stopInfra
```

If you do a `$docker ps -a`, you can see that all the containers are in **Exited** status

CONTAINER ID	IMAGE	CREATED	STATUS	PORTS	NAMES
8d4cc077316e	bot-build-docker-local.docker.oraclecorp.com/bots-samples-nodejs	4 days ago	Exited (0) 4 days ago	17.4.5	bots-s
7fbdc2c46fd	bot-build-docker-local.docker.oraclecorp.com/bots-config	4 days ago	Exited (0) 4 days ago	17.4.5	bots-c
44da2e3ac5a9	bot-build-docker-local.docker.oraclecorp.com/bots-pipeline	4 days ago	Exited (0) 4 days ago	17.4.5	bots-p
5d60183e62cc	bot-build-docker-local.docker.oraclecorp.com/bots-management-apis	4 days ago	Exited (0) 4 days ago	17.4.5	bots-m
05a289bfe8c	bot-build-docker-local.docker.oraclecorp.com/bots-qna-server	4 days ago	Exited (0) 4 days ago	17.4.5	bots-q
107a43350bab	bot-build-docker-local.docker.oraclecorp.com/bots-intent-server	4 days ago	Exited (0) 4 days ago	17.4.5	bots-i
1d1f5dc81e2f	bot-build-docker-local.docker.oraclecorp.com/bots-connectors	4 days ago	Exited (0) 4 days ago	17.4.5	bots-c
8b11a5ebfb21	bot-build-docker-local.docker.oraclecorp.com/bots-repository	4 days ago	Exited (0) 4 days ago	17.4.5	bots-r
clcedbcf94c8	bot-build-docker-local.docker.oraclecorp.com/bots-storage	4 days ago	Exited (0) 4 days ago	17.4.5	bots-s
e8a768102a4d	bot-build-docker-local.docker.oraclecorp.com/bots-message-queue	4 days ago	Exited (0) 4 days ago	17.4.5	bots-m
6e23b78e82ee	bot-build-docker-local.docker.oraclecorp.com/bots-otd	4 days ago	Exited (0) 4 days ago	17.4.5	bots-o

- Enter **exit** in the terminal window to close it
- Stop the machine



You are done!!