ONAP SO Debug Env Setup

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1、 Get All Artifacts of SO

Build all projects of SO, we can get the following artifacts of SO from each target folder: asdc-controller-1.1.0-SNAPSHOT.war mso-api-handler-infra-1.1.0-SNAPSHOT.war mso-catalog-db-adapter-1.1.0-SNAPSHOT.war mso-network-adapter-1.1.0-SNAPSHOT.war mso-requests-db-adapter-1.1.0-SNAPSHOT.war mso-sdnc-adapter-1.1.0-SNAPSHOT.war mso-tenant-adapter-1.1.0-SNAPSHOT.war mso-vnf-adapter-1.1.0-SNAPSHOT.war mso-vnf-adapter-1.1.0-SNAPSHOT.war MSOCockpit-1.1.0-SNAPSHOT.war MSOCockpit-1.1.0-SNAPSHOT.war MSOCommonBPMN-1.1.0-SNAPSHOT.war MSOInfrastructureBPMN-1.1.0-SNAPSHOT.war

2、 Prepare the docker build folder

2.1 Copy dockerFiles

Copy docker-files folder of the packages project as the working path.

共享 ▼ 新建文件夹			
你	修改日期	类型	大小
chef-configs	2017/8/4 17:26	文件夹	
jboss-configs	2017/8/4 17:26	文件夹	
scripts	2017/8/4 17:26	文件夹	
👔 Dockerfile.aria	2017/8/23 15:37	ARIA 文件	2 KB
Dockerfile.jacoco	2017/8/23 15:37	JACOCO 文件	1 KB
👔 Dockerfile.mso-arquillian	2017/8/4 17:26	MSO-ARQUILLIA	4 KB
👔 Dockerfile.mso-chef-final	2017/8/4 17:26	MSO-CHEF-FINA	4 KB
Dockerfile.ubuntu-16.04-update	2017/8/4 17:26	04-UPDATE 文件	1 KB
Dockerfile.wildfly-10	2017/8/4 17:26	WILDFLY-10 文件	2 KB
a settings.xml	2017/8/4 17:26	XML 文档	2 KB

2.2 Copy Configurations to working path.

1.	Copy docker volume configs to the	working path.
	Source: docker-config\volumes of	docker-config project.

	↓↓ 计算机 → 新加卷 (E:) → 02.onap → 包 → docker-files →							
只 🔻 🛛 🭃 打开	新建文件夹							
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🚺 下载	퉬 chef-configs	2017/8/24 10:14	文件夹					
■ 桌面	퉬 jboss-configs	2017/8/24 10:14	文件夹					
🔄 最近访问的位置	퉬 mariadb	2017/8/24 10:27	文件夹					
	🔰 mso	2017/8/24 10:27	文件夹					
	퉬 scripts	2017/8/24 10:14	文件夹					
	Dockerfile.aria	2017/8/23 15:37	ARIA 文件	2 KB				
	Dockerfile.jacoco	2017/8/23 15:37	JACOCO 文件	1 KB				
1 例刻	Dockerfile.mso-arquillian	2017/8/4 17:26	MSO-ARQUILLIA	4 KB				
副と時	Dockerfile.mso-chef-final	2017/8/4 17:26	MSO-CHEF-FINA	4 KB				
🔄 文档	Dockerfile.ubuntu-16.04-update	2017/8/4 17:26	04-UPDATE 文件	1 KB				
📄 迅雷下载	Dockerfile.wildfly-10	2017/8/4 17:26	WILDFLY-10 文件	2 KB				
🎝 音乐	🔜 settings.xml	2017/8/4 17:26	XML 文档	2 KB				
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2. Copy the chef-configs files to working_path\chef-configs

Source: so-config project and chef-repo project.

Note:we need to rename so-config to mso-config. Because the DockerFile have not been changed , it use the name as mso-config, I think it is an issue that ATT change mso to so resultes.

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包含到库中	▼ 共享 ▼ 新建文件夹		
:		修改日期	美型 ブ
:	🜏 chef-repo	2017/8/24 10:40	文件夹
1	🌛 mso-config	2017/8/24 10:40	文件夹
访问的位置	solo.rb	2017/8/4 17:26	RB 文件

3. Put the artifacts to maven/artifacts under the working path

▶ 计算机 ।	→ 新加卷(E:) → 02.onap → 包 → docker-files → maven → a	rtifacts			
包含到库中 ▼	共享 ▼ 新建文件夹				
	名称 ^	修改日期	类型	大小	
	asdc-controller-1.1.0-SNAPSHOT.war	2017/8/23 17:39	WAR 文件	58,866 KB	
	🔳 mso-api-handler-infra-1.1.0-SNAPSHOT.war	2017/8/23 17:37	WAR 文件	9,772 KB	
问的位置	🔳 mso-catalog-db-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	9,027 KB	
	MSOCockpit-1.1.0-SNAPSHOT.war	2017/8/23 17:40	WAR 文件	27,059 KB	
	MSOCommonBPMN-1.1.0-SNAPSHOT.war	2017/8/23 17:40	WAR 文件	46,898 KB	
	MSOInfrastructureBPMN-1.1.0-SNAPSHOT.war	2017/8/23 17:40	WAR 文件	47,520 KB	
	MSOMockServer-1.1.0-SNAPSHOT.war	2017/8/23 17:40	WAR 文件	8,325 KB	
	🔳 mso-network-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	12,070 KB	
	🔳 mso-requests-db-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	9,566 KB	
	🔳 mso-sdnc-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	15,865 KB	
臷	🔳 mso-tenant-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	11,956 KB	
	mso-vnf-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	12,072 KB	
	mso-workflow-message-adapter-1.1.0-SNAPSHOT.war	2017/8/23 17:38	WAR 文件	15,807 KB	

4. mofidy \scripts \start-jboss-server.sh for debug as below.

Add –debug for SO jboss start command.

\$JBOSS_HOME/bin/standalone.sh --debug -c standalone-full-ha-mso.xml &

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3、 Build Docker Images

3.1 Copy the working path to linux.

```
root@SZX1000124253:~# cd /opt/mso/docker-files/
root@SZX1000124253:/opt/mso/docker-files# 1s -1
total 60
drwxr-xr-x 4 root root 4096 Aug 24 10:58 chef-configs
drwxr-xr-x 4 root root 4096 Aug 24 10:58 chef-rep
-rw-r--r-- 1 root root 1140 Aug 24 10:58 Dockerfile.aria
-rw-r--r-- 1 root root 1011 Aug 24 10:58 Dockerfile.jacoco
-rw-r--r-- 1 root root 4020 Aug 24 10:58 Dockerfile.mso-arquillian
-rw-r--r-- 1 root root 3622 Aug 24 10:58 Dockerfile.mso-chef-final
-rw-r--r-- 1 root root 517 Aug 24 10:58 Dockerfile.ubuntu-16.04-update
-rw-r--r-- 1 root root 1042 Aug 24 10:58 Dockerfile.wildfly-10
drwxr-xr-x 4 root root 4096 Aug 24 10:58 jboss-configs
drwxr-xr-x 4 root root 4096 Aug 24 10:58 mariadb
drwxr-xr-x 3 root root 4096 Aug 24 10:58 maven
drwxr-xr-x 3 root root 4096 Aug 24 10:58 mso
drwxr-xr-x 2 root root 4096 Aug 24 10:58 scripts
-rw-r--r-- 1 root root 1675 Aug 24 10:58 settings.xml
drwxr-xr-x 7 root root 4096 Aug 24 10:58 so-config
root@SZX1000124253:/opt/mso/docker-files#
```

3.2 Mariadb

Because we do not need to debug mariadb, so we can use the image from nexus3.onap.org:10001/mariadb

root@SZX1000124253:~# docker pull ne	xus3.onap.org:10	001/mariadb		
Using default tag: latest				
latest: Pulling from mariadb				
a8e225cee373: Pull complete				
0e1c704443c4: Pull complete				
2ea2b04d5bba: Downloading (>			1 540 kB/7	74.97 MB
28735c5f20f6: Download complete				
58f5b3b3c375: Download complete				
2473877f1349: Download complete				
26ac5660158b: Download complete				
5c045c503830: Download complete				
89e8d29cd0ae: Download complete				
9337ba08a55: Download complete				
Sass/Deoless. Downroad comprete				
ropt#SZX1000124255:-# docker images				
REPOSITORY	TAG	IMAGE ID	CREATED	VIRTUAL SIZE
<pre>chone>.</pre>	<ndn#></ndn#>	0e1c704443c4	2 days ago	142.6 168
obep/map	latest.	3£322a95c781	8 days ago	1,552 GB
onsp/wildflynew	latest	37d34a45a8e3	8 days app	632.6 220
<pre><pre>spore></pre></pre>	<none></none>	d49a5f57ce56	9 days ago	633.5 325
ubustu	latest	56a11e6a7878	13 days ago	120.1 395
newus3.onap.orgi10001/mariadb	latest	todedef9970f	3 weeks ago	997 MB
atesta	latest	Jedacaa/Jaba	J months ago	ALC: NO. R. H.

3.3 Download ubuntu image

root@SZX1000124253:~# docker pull ubuntu

TAG	IMAGE ID	CREATED	VIRTUAL SIZE
<none></none>	0e1c704443c4	2 days ago	142.6 MB
latest	3f322#95c781	8 days ago	1.552 GB
latest	37d34a45a8e3	8 days ago	632.6 MB
<pre>cndne></pre>	d49a5f57ce88	9 days ago	633.8 103
latest	56a4fe6a7878	13 days ago	120-1 ME
latest	4bd9def9970f	3 Weeks ago.	397 MB
latest	3e3dcua79a6d	3 months ago	215.7 MB
latest	#9£4c9007#11	3 months ago	219.7 MB
Intest	89f4c9007811	3 months ago	213,7 MB
latest	B9f4c9007811	3 months ago	219.7 MB
latest	0ce76a9a2c5b	3 months ago	237 MB
latest	b8d705f3adlc	3 months ago	633.8.340
latest	bb682e0824bd	3 months ago	33.2 10
latest	dt350798c2ee	6 months ago	191.0 MB
latest	Be9761700755	10 months ago	1.093 MB
intest	7e8513892£72	10 months ago	1.093 MB
	9967c5ad28de	10 months ago	1.093 MB
	3967cSad88de	10 months ago	1,093 MB
latest	9967c5ad88de	10 months ago	1,093 MB
latest	873c28292d23	3 years ago	281.8 MH
	TAG CDDM=> latest	TAG IMAGE ID cpume> DelsTD443c4 latest 3f322a9Sc781 latest 3f324a65a8e3 chume> d593547ce88 latest 3f34a65a8e3 chume> d593547ce88 latest 3f34a65a8e3 chume> d593547ce88 latest 3f34a65a8e3 latest 3f34a65a8e3 latest 3f34a65a8e3 latest 3f34a65a8e3 latest 3f34a65a8e3 latest 3f34a6590781 latest 3f46c9007811 latest 3f4c9007811 latest b04705f3ad1c latest b04705f3ad1c latest b04705f3ad1c latest d4350796c2ee latest 7e851399f72 v1 9867c5ad88de latest 9967c5ad88de latest 9967c5ad8de latest 836229223	TAG IMAGE ID CREATED conne> 0=1d704443c4 2 days ago latest 3f322a95c781 8 days ago latest 3f32445a8s3 8 days ago latest 3f3445a8s3 8 days ago latest 3f3445a8s3 9 days ago latest 3f3445a8s3 9 days ago latest 3f3445a8s3 9 days ago latest 564f667878 13 days ago latest 864f66980781 3 months ago latest 95f6907811 3 months ago latest 85f6907811 3 months ago latest 85f29024bd 3 months ago latest b04705f3ad1c 1 months ago latest d4350798c2ee 8 months ago latest 4350798c2ee 8 months ago latest 786f300785 10 months ago latest 786f309722 10 months ago latest 9967c5ad88de 10 months ago latest 9967c5ad88de 10 months ago

3.4 Build wildfly image

- A. First of all, we need to modify "Dockerfile.wildfly-10" as below.
- a) From ubuntu, because we download ubuntu image, we need to make sure the name same as that we download
- b) Remove ARG, this is because my docker version is old , ARG command is not supported and here these ARGs is not used in this docker file.
- c) Add below lines for install jre, this is from MSO repo's wildfly DockerFile, if there are no these lines, "RUN apt-get -y install openjdk-8-jre-headless" will be failed.

update first the image to fix potential security issues

RUN apt-get update

RUN apt-get -y dist-upgrade

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B. And then rename "Dockerfile.wildfly-10" as "Dockerfile".

root@SZX100	001	124253	3:/opt	:/mso,	/docl	œr-	files	1s -1
total 60								
drwxr-xr-x	4	root	root	4096	Aug	24	10:58	
drwxr-xr-x	4	root	root	4096	Aug	24	10:58	chef-repo
-rw-rr	1	root	root	892	Aug	24	11:02	Dockerfile
-rw-rr	1	root	root	1140	Aug	24	10:58	Dockerfile.aria
-rw-rr	1	root	root	1011	Aug	24	10:58	Dockerfile.jacoco
-rw-rr	1	root	root	4020	Aug	24	10:58	Dockerfile.mso-arquillian
-rw-rr	1	root	root	3622	Aug	24	10:58	Dockerfile.mso-chef-final
-rw-rr	1	root	root	517	Aug	24	10:58	Dockerfile.ubuntu-16.04-update
drwxr-xr-x	4	root	root	4096	Aug	24	10:58	
drwxr-xr-x	4	root	root	4096	Aug	24	10:58	
drwxr-xr-x	3	root	root	4096	Aug	24	10:58	
drwxr-xr-x	3	root	root	4096	Aug	24	10:58	
drwxr-xr-x	2	root	root	4096	Aug	24	10:58	
-rw-rr	1	root	root	1675	Aug	24	10:58	settings.xml
drwxr-xr-x	7	root	root	4096	Aug	24	10:58	
root@SZX100	001	124253	3:/opt	:/mso/	/docl	œr-	-files	¥

C. Build docker image. Here I name it as onap/wildfly1 , because onap/wildfly already exists.

root892X1000124253:/opt/mso/docker-files# : REPOSITORY	docker images TRG	INACE II		CREATED	VIRTUAL SIZE
> Running in b94d8c2f7dac					
Step 5 : ENV HTTPS_PROXY \$https_	proxy				
Removing intermediate container	0e78030b32f9				
> 332ba5acf64e					
> Running in 0e78030b32f9					
Step 4 : ENV HTTP_PROXY \$http_pr	гоху				
Removing intermediate container	783fa38f7c40				
> 89f73cad4e17					
> Running in 783fa38f7c40					
Step 3 : LABEL Description "This	s image contains	ONAP SO	ubuntu b	base" Version	"1.0"
Removing intermediate container	43248218d509				
> d30c69371745	40040050 1500				
> Running in 43248218d509					
Step 2 : MAINIAINER "Ine ONAP Ie	am"				
> SOATLEOA/0/8					
Step 1 : FROM ubuiltu					
Stap 1 · FROM ubuntu					
Sending build context to Docker	daemon 292 7 MB	- Durra	o onap,,	andreyn .	
root@SZX1000124253:/opt/mso/dock	ker-files# docke	r build -	-t. onan/w	vildflv1 .	

REPOSITORY	TAG	INAGE ID	CREATED	VIRTUAL SIZE
mag/wildfly1	latest	3d5412£065d5	21 seconds ago	632.6 108
nexus3.onsp.org:10001/mariadh	latest	3a337be08e55	2 days ago	397.2 10
onap/meo	latest	.310224950781	5 days ago	1.552 GB
onep/wildflynew	latest	37d34a45a8e3	I days ago	632.6 HH
(none>	<none></none>	d49a5157ce80	3 days ago	633.8 MB
ubun tu	latest	3665fe6a7878	13 days ago	120.1 MB
CBODE2	<pre>cnone></pre>	107661abcbdd	3 weeks ago	397 193
jxtest2	latest	Se3doma79a6d	3 months ago	213.7 HH
jatest	latest	89f4c5007611	3 months ago	213.7 MB
abuntu-with-vi-dockerfile	latest	892409007811	3 months ago	213.7 HB
istestl	latest	29f4c9007811	3 months ago	213.7 MB
ibuntu-with-vi	latest	0ce76a9a2c5b	2 months ago	237 MH
onap/wildfly	latest	b8d705f3adlc	3 months ago	633.8 MB
registry	latest.	bb682e0824bd	3 months ago	33:2.105
centos	latest	d4350796c2ee	E months ago	191.8 108
jinxinjobl	latest	5e9762700755	10 months ago	1.093 148
jobl	latest	7e8513892172	10 months ago	1.093 88
busybox.	latest	9967c5ad88de	10 months ago	1.093 HB
insin1903/busybos		9967c5ad88de	19 months ago	1,093 100
registry.example.net:5001/jinmin1983/busybox		9967c5ad88de	10 months ago	1.093 HH
progrium/stress	latest	873c28292d23	3 years ago	281.8 MB

3.5 Build SO image

1. Modify "Dockerfile.mso-chef-final" as below .

Change from image to onap/wildfly1 which we have build. Remove ARG block because our docker version does not support ARG command and it is not used. Add module.xml at line 70. I think it is a issue.

#182 maptitz docker-Flex Doskerfle mas-shelf finel	🔹 🛬 🕈 ڬ Iz Debug (HSC) al mainidechanidechan Reni Dechanille mus chef And
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2. Rename Dockerfile.mso-chef-final to Dockerfile (you can rename the exsiting DockerFile back to Dockerfile.wildfly-10 first).

3. Build SO docker image

ubuntu-with-vi-dockerfile

jxtest1

ubuntu-with-vi

nan/wildfl



latest

latest

latest

latest

89f4c9007811

89f4c9007811

0ce76a9a2c5b

b8d705f3ad1a

4 Run Docker Containers

4.1 Run MariaDB

The Command to run mariadb is:

dockerrun-d--namemariadb-hdb.mso.testlab.openecomp.org-eMYSQL_ROOT_PASSWORD=password-p3306:3306-v/opt/mso/docker-files/mariadb/docker-entrypoint-initdb.d:/docker-entrypoint-initdb.d:/docker-entrypoint-initdb.d-v/opt/mso/docker-files/mariadb/conf.d:/etc/mysql/conf.d nexus3.onap.org:10001/mariadb

the mariadb's username and password is :root password

```
ot@SZX1000124253:~# docker exec -it mariadb /bin/bash
oot@db:/# mysql -uroot -ppassword
Nelcome to the MariaDB monitor. Commands end with ; or g.
Your MariaDB connection id is 14538
erver version: 10.2.7-MariaDB-10.2.7+maria~jessie-log mariadb.org binary distribution
copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.
ype 'help;' or '\h' for help. Type '\c' to clear the current input statement.
[ariaDB [(none)]> show databases;
 Database
 camundabpmn
information_schema
mso catalog
 mso requests
 mysql
 performance schema
 rows in set (0.00 sec)
 riaDB [(none)]>
```

4.2 Run SO

The Command to run SO is:

docker run -d --name mso -h mso.mso.testlab.openecomp.org -e MYSQL_ROOT_PASSWORD=password --link=mariadb:db.mso.testlab.openecomp.org -p 3904:3904 -p 8787:8787 -p 3905:3905 -p 8080:8080 -p 9990:9990 -v /opt/mso/docker-files/mso/chef-config:/shared onap/mso

Note:-p 8787 if for debug;

--link=mariadb:db.mso.testlab.openecomp.org it's for link to mariadb instance.

5. Debug Using Eclipse & Postman

1.Add new Remote java application debug configuration as below. The port is 8787.

Debug Configurations				
Create, manage, and run configurations				
Attach to a Java virtual mach	ine accepting debug connections			
Image: Second system type filter text Image: Java Applet Java Application Ju Junit m2 Maven Build m2 adapters m2 packages m2 Node.js Application Second Java Applicatic Second Java Applicatic Second Java Applicatic </td <td>Name: CloudConfig</td>	Name: CloudConfig			
Filter matched 18 of 18 iten	Revert Apply			
?	Debug Close			

2.Post message using postman

Note: Basic Auth is needed , username:InfraPortalClient ,password: password1\$

POST - HERVIG228	ST ····································			
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We will get the breakpoint at the eclipse.

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Note: Find additional information on the wiki https://wiki.onap.org/display/DW/Development+Environment