

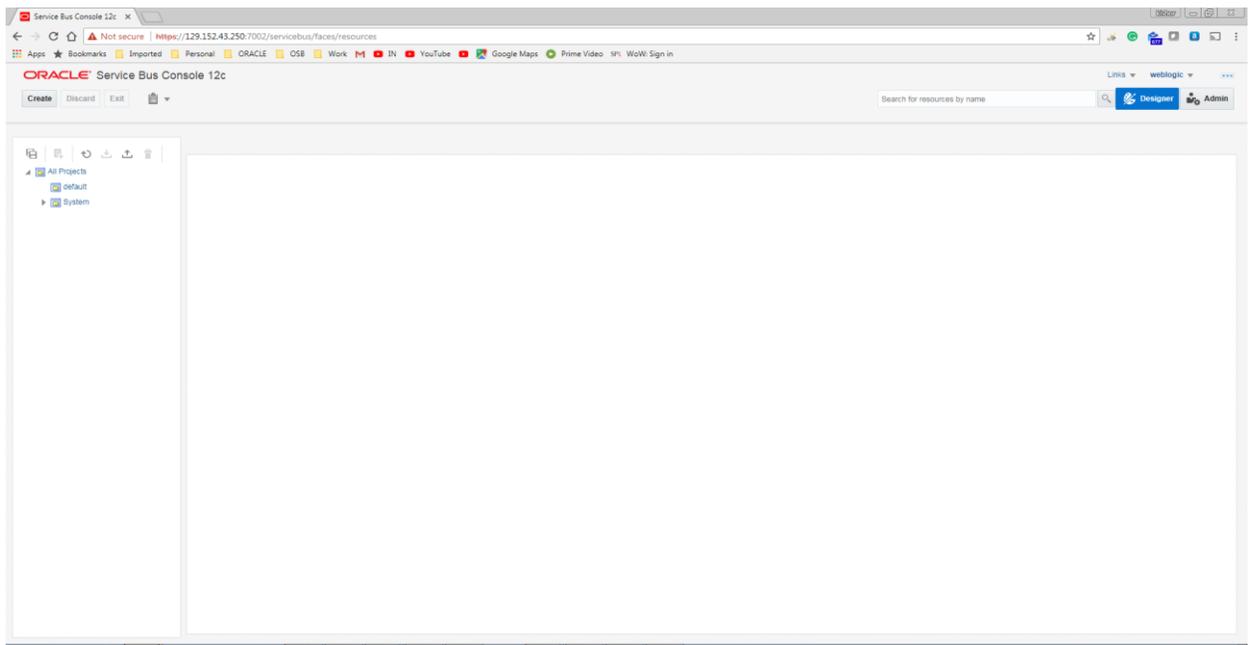
Deploying an Oracle Service Bus Project from a Linux Host to Oracle SOA Cloud Service over SSL Using the Oracle Service Bus Maven Plugin

Introduction

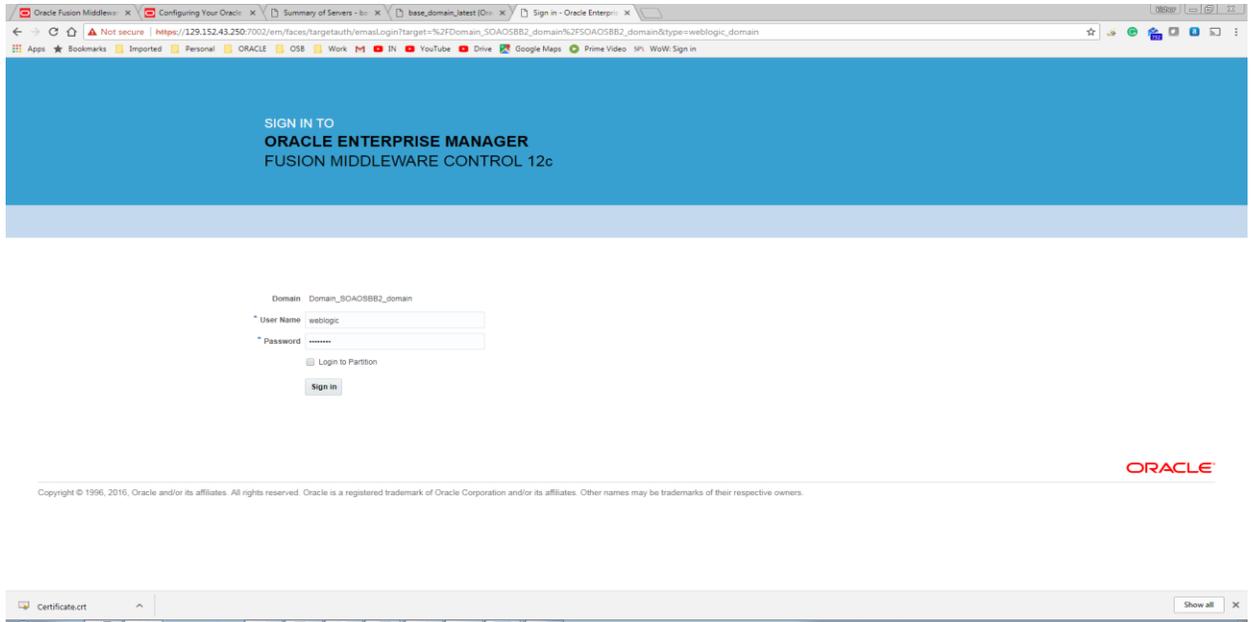
This document describes how to deploy an Oracle Service Bus project from a Linux host to Oracle SOA Cloud Service over SSL using the Oracle Service Bus maven plug-in. The Linux host can be any host.

Steps

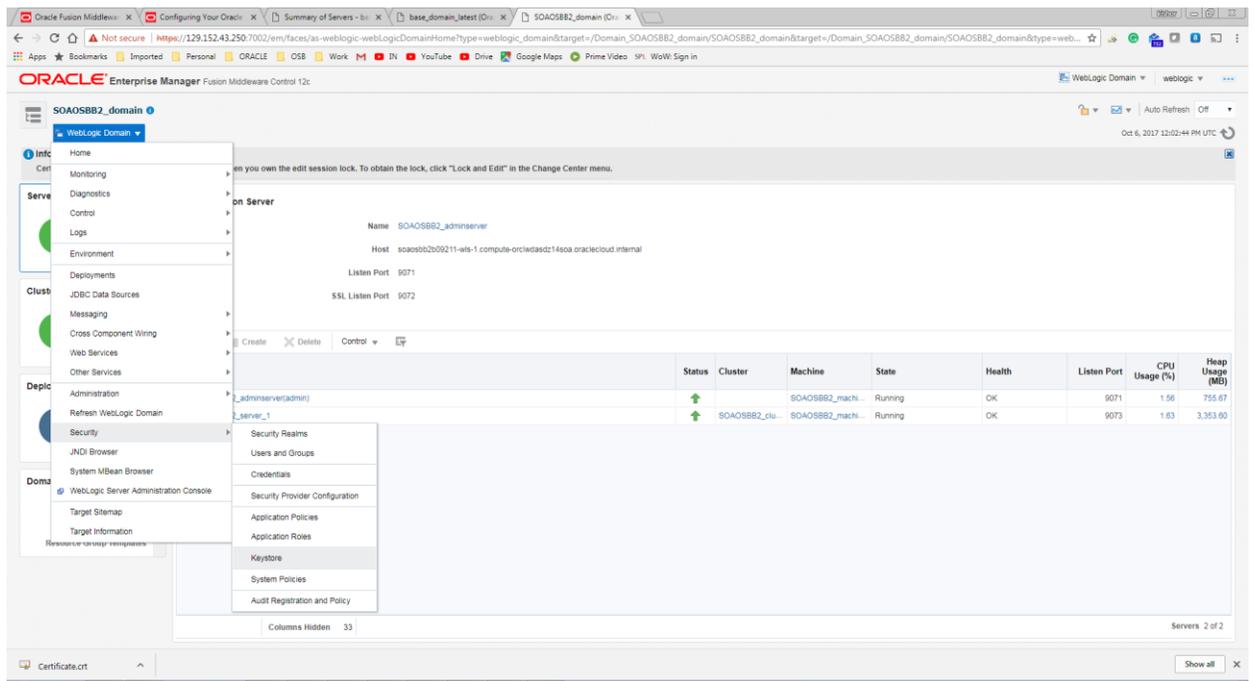
- 1.) The following screen shot shows a SOA Cloud Service instance with Oracle Service Bus (accessible through HTTPS) and no predeployed Oracle Service Bus projects.
- 2.) Note the Admin URL: `https://AdminUrl:<Port>/servicebus`

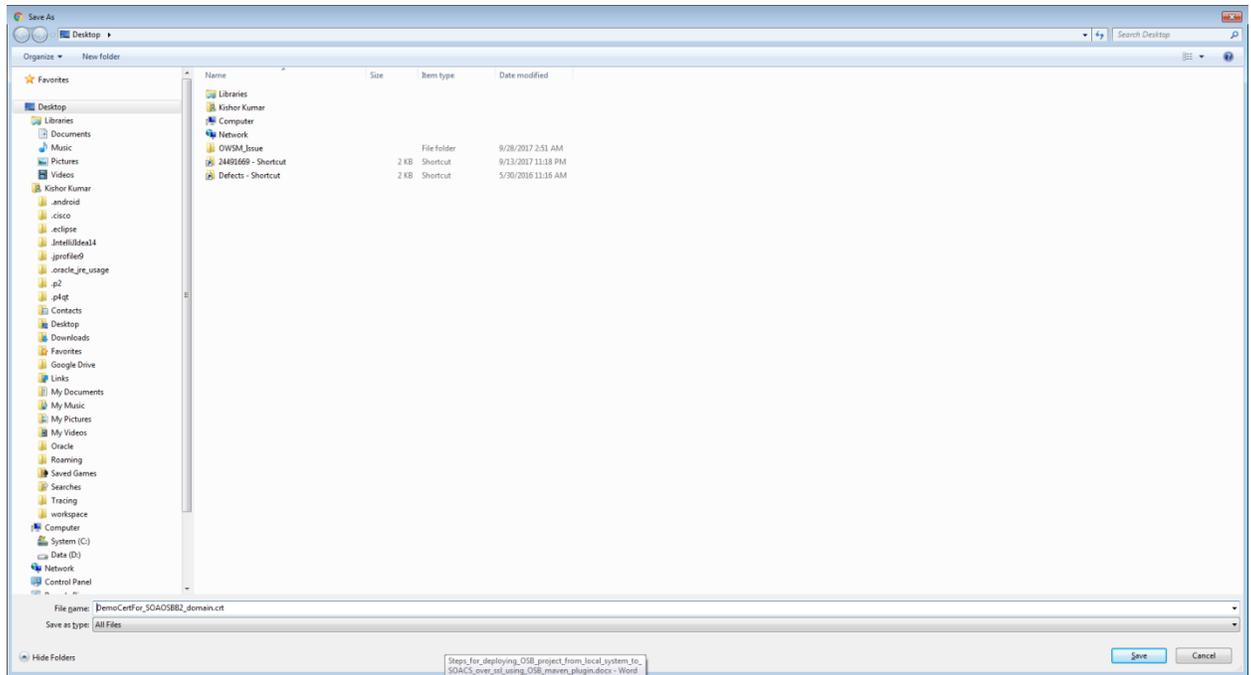


- 3.) Download the SOA Cloud Service certificate from Oracle Enterprise Manager Fusion Middleware Control.
- 4.) Note the Admin URL: `https://AdminUrl:<Port>/em` (that is, Oracle Enterprise Manager Fusion Middleware Control).
- 5.) Log in to Oracle Enterprise Manager Fusion Middleware Control with the correct credentials.



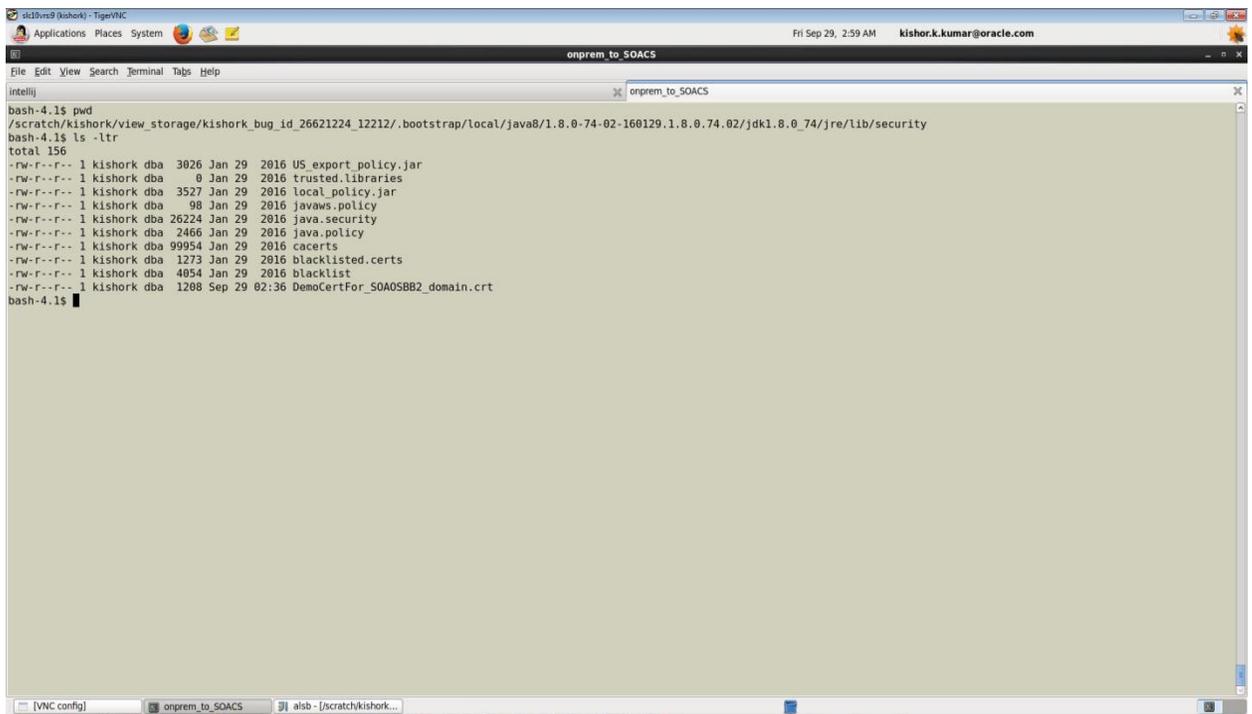
6.) Navigate to Domain -> Security -> Keystore.





9.) Save the certificate on the local host and place it in the following location:

Location : \$JAVA_HOME/jre/lib/security

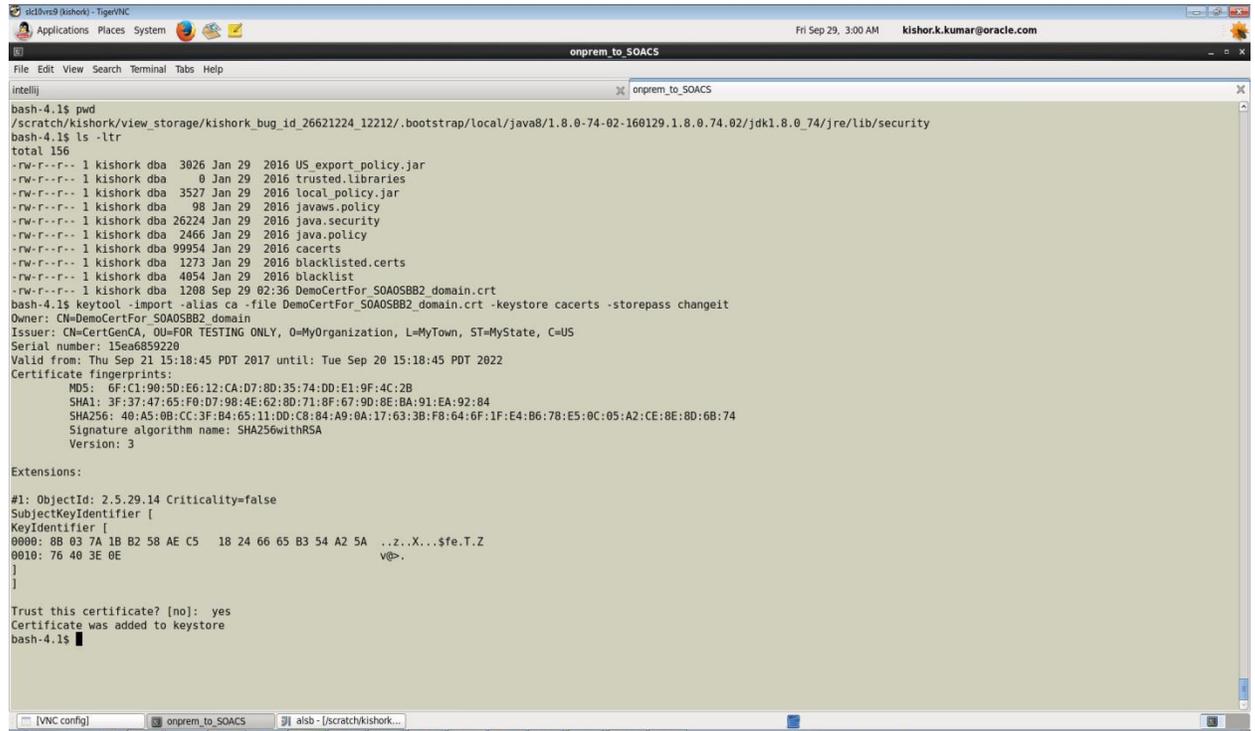


10.) Execute the following command to import the security certificate on the Linux host (remote host on which the SOA Cloud Service instance is installed).

```
keytool -import -alias ca -file DemoCertFor_SOASBB2_domain.crt -keystore cacerts -storepass <password>
```

The default password of the store is changeit.

-storepass <password> in the above command is optional and may be entered when prompted with the message Trust this certificate? shown below.



```
stidbvn9 (kishork) - TigerVNC
Applications Places System
Fri Sep 29, 3:00 AM kishor.k.kumar@oracle.com
onprem_to_SOACS
intellij onprem_to_SOACS
bash-4.1$ pwd
/scratch/kishork/view_storage/kishork_bug_id_26621224_12212/.bootstrap/local/java8/1.8.0-74-02-160129.1.8.0.74.02/jdk1.8.0_74/jre/lib/security
bash-4.1$ ls -ltr
total 156
-rw-r--r-- 1 kishork dba 3026 Jan 29 2016 US_export_policy.jar
-rw-r--r-- 1 kishork dba 0 Jan 29 2016 trusted.libraries
-rw-r--r-- 1 kishork dba 3527 Jan 29 2016 local_policy.jar
-rw-r--r-- 1 kishork dba 98 Jan 29 2016 javaws.policy
-rw-r--r-- 1 kishork dba 26224 Jan 29 2016 java.security
-rw-r--r-- 1 kishork dba 2466 Jan 29 2016 java.policy
-rw-r--r-- 1 kishork dba 99954 Jan 29 2016 cacerts
-rw-r--r-- 1 kishork dba 1273 Jan 29 2016 blacklisted.certs
-rw-r--r-- 1 kishork dba 4054 Jan 29 2016 blacklist
-rw-r--r-- 1 kishork dba 1208 Sep 29 02:36 DemoCertFor_SOASBB2_domain.crt
bash-4.1$ keytool -import -alias ca -file DemoCertFor_SOASBB2_domain.crt -keystore cacerts -storepass changeit
Owner: CN=DemoCertFor_SOASBB2_domain
Issuer: CN=CertGenCA, OU=FOR TESTING ONLY, O=MyOrganization, L=MyTown, ST=MyState, C=US
Serial number: 15ea6b59220
Valid from: Thu Sep 21 15:18:45 PDT 2017 until: Tue Sep 20 15:18:45 PDT 2022
Certificate fingerprints:
MD5: 6F:C1:90:5D:E6:12:CA:D7:8D:35:74:DD:E1:9F:4C:2B
SHA1: 3F:37:47:65:F0:D7:98:4E:62:8D:71:8F:67:9D:8E:BA:91:EA:92:84
SHA256: 40:A5:0B:CC:3F:B4:65:11:DD:C8:84:A9:0A:17:63:3B:F8:64:6F:1F:E4:B6:78:E5:0C:05:A2:CE:8E:8D:6B:74
Signature algorithm name: SHA256withRSA
Version: 3

Extensions:
#1: ObjectId: 2.5.29.14 Criticality=false
SubjectKeyIdentifier [
KeyIdentifier [
0000: 88 03 7A 1B B2 58 AE C5 18 24 66 65 B3 54 A2 5A ...X...$fe.T.Z
0010: 76 40 3E 0E v@>.
]
]

Trust this certificate? [no]: yes
Certificate was added to keystore
bash-4.1$
```

11.) Go to the location where the Oracle Service Bus maven project is placed and ready for maven commands.

```
bash-4.1$ pwd
/scratch/kishork/view_storage/kishork_bug_id_26621224_12212/xbus/alsb/tools/maven/tests/test-files/test-application
bash-4.1$ ls -ltr
total 8
lrwxrwxrwx 1 kishork dba 17 Sep 12 01:32 pom.xml -> .ade_path/pom.xml
drwxr-xr-x 2 kishork dba 4096 Sep 29 03:01 System
drwxr-xr-x 3 kishork dba 4096 Sep 29 03:02 default
bash-4.1$
```

12.) Select an Oracle Service Bus project that you want to deploy on the SOA Cloud Service instance over SSL using the Oracle Service Bus maven plug-in. (See screen shot for details.)

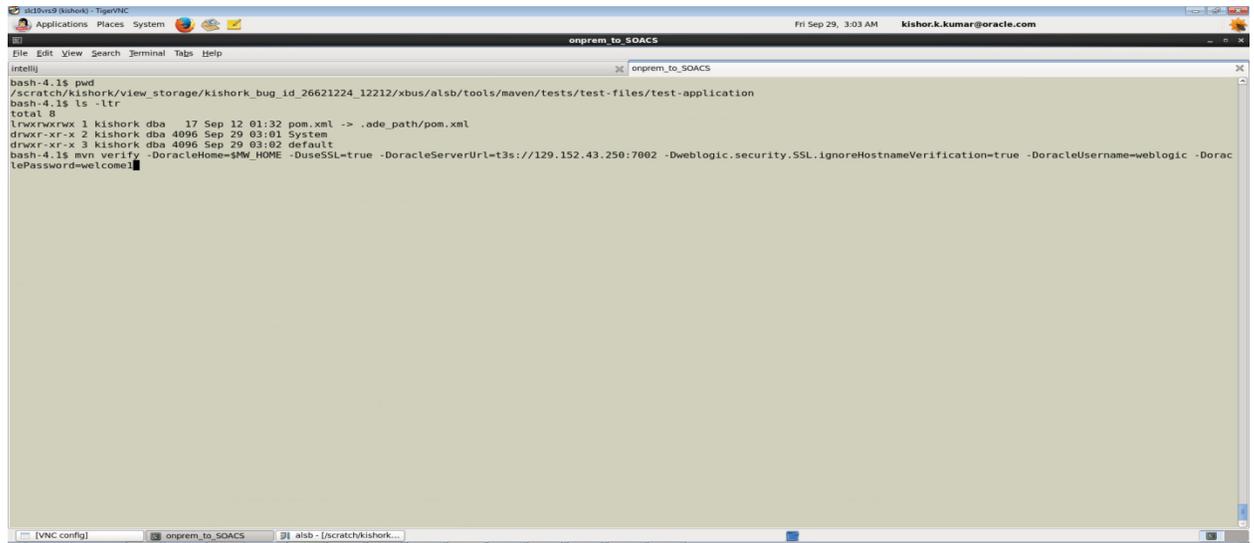
```
bash-4.1$ pwd
/scratch/kishork/view_storage/kishork_bug_id_26621224_12212/xbus/alsb/tools/maven/tests/test-files/test-application
bash-4.1$ ls -ltr
total 8
lrwxrwxrwx 1 kishork dba 17 Sep 12 01:32 pom.xml -> .ade_path/pom.xml
drwxr-xr-x 2 kishork dba 4096 Sep 29 03:01 System
drwxr-xr-x 3 kishork dba 4096 Sep 29 03:02 default
bash-4.1$
```

13.) Execute the following command to package and deploy the maven project on the SOA Cloud Service instance.

```
mvn verify -DoracleHome=$MW_HOME -DuseSSL=true
-DoracleServerUrl=t3s://<IP_address_of_SOA_Cloud_Service_instance>:7002
-Dweblogic.security.SSL.ignoreHostnameVerification=true
-DoracleUsername=weblogic
-DoraclePassword=welcome1
```

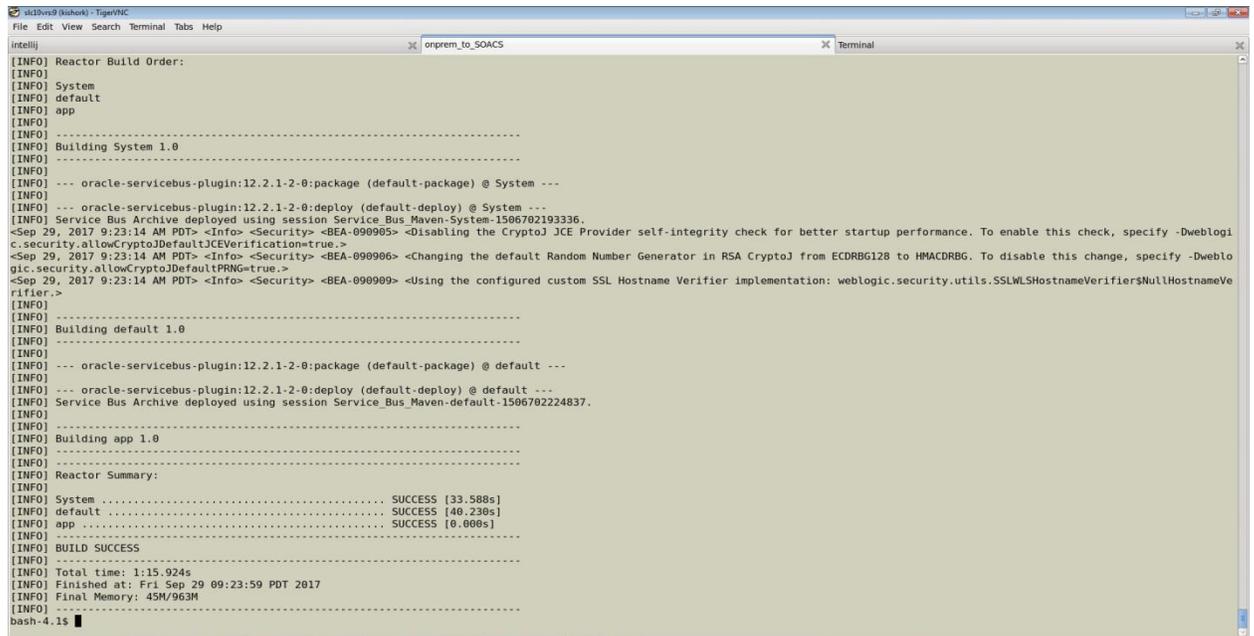
oracleUsername --- Username of the SOA Cloud Service instance
oraclePassword ---- Password of the SOA Cloud Service instance
useSSL ----- Project to be deployed on the SOA Cloud Service instance over SSL
oracleServerUrl ---- Server admin URL where you want to deploy the project (in this example, it is for the SOA Cloud Service instance)

Note: You can also pass the above-mentioned information in pom.xml.



```
bash-4.1$ pwd
/scratch/kishork/view_storage/kishork_bug_id_26621224_12212/xbus/alsb/tools/maven/tests/test-files/test-application
bash-4.1$ ls -ltr
total 8
-rwxrwxrwx 1 kishork dba 17 Sep 12 01:32 pom.xml -> .ade_path/pom.xml
drwxr-xr-x 2 kishork dba 4096 Sep 29 03:01 System
drwxr-xr-x 3 kishork dba 4096 Sep 29 03:02 default
bash-4.1$ mvn verify -DoracleHome=$HW_HOME -DuseSSL=true -DoracleServerUrl=t3s://129.152.43.250:7002 -Dweblogic.security.SSL.ignoreHostnameVerification=true -DoracleUsername=weblogic -DoraclePassword=welcome1
```

14.) Once this is done, the message shown below is displayed to the end user. This means that the maven command completed successfully with the packaged and deployed projects on the SOA Cloud Service instance.



```
[INFO] Reactor Build Order:
[INFO] System
[INFO] default
[INFO] app
[INFO] -----
[INFO] Building System 1.0
[INFO] -----
[INFO] --- oracle-servicebus-plugin:12.2.1-2-0:package (default-package) @ System ---
[INFO] --- oracle-servicebus-plugin:12.2.1-2-0:deploy (default-deploy) @ System ---
[INFO] Service Bus Archive deployed using session Service_Bus_Maven-System-1506702193336.
<Sep 29, 2017 9:23:14 AM PDT> <Info> <Security> <BEA-090905> <Disabling the CryptoJ JCE Provider self-integrity check for better startup performance. To enable this check, specify -Dweblogic.security.allowCryptoDefaultJCEVerification=true.>
<Sep 29, 2017 9:23:14 AM PDT> <Info> <Security> <BEA-090906> <Changing the default Random Number Generator in RSA CryptoJ from ECDRBG128 to HMACDRBG. To disable this change, specify -Dweblogic.security.allowCryptoDefaultPRNG=true.>
<Sep 29, 2017 9:23:14 AM PDT> <Info> <Security> <BEA-090909> <Using the configured custom SSL Hostname Verifier implementation: weblogic.security.utils.SSLWLSHostnameVerifiersNullHostnameVerifier.>
[INFO] -----
[INFO] Building default 1.0
[INFO] -----
[INFO] --- oracle-servicebus-plugin:12.2.1-2-0:package (default-package) @ default ---
[INFO] --- oracle-servicebus-plugin:12.2.1-2-0:deploy (default-deploy) @ default ---
[INFO] Service Bus Archive deployed using session Service_Bus_Maven-default-150670224837.
[INFO] -----
[INFO] Building app 1.0
[INFO] -----
[INFO] Reactor Summary:
[INFO] System ..... SUCCESS [33.588s]
[INFO] default ..... SUCCESS [40.230s]
[INFO] app ..... SUCCESS [0.000s]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 1:15.924s
[INFO] Finished at: Fri Sep 29 09:23:59 PDT 2017
[INFO] Final Memory: 45M/963M
[INFO] -----
bash-4.1$
```

15.) You can verify the same result by logging in to the SOA Cloud Service instance (as the Admin) and checking if everything is under the default and System projects. The following screen shot shows that default and System are correct as per the project.

