



Sri Lanka Institute of Information Technology

**MSc in Information Technology
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Software Engineering Practices (IT5030) The Deployer – Product Test Guide

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Table of Contents

Prerequisite.....	2
How to Run?.....	3
Verification.....	8

Prerequisite

- Google Chrome Version 90
- Putty/Xshell to log in to EC2 Linux servers

How to Run?

Step 1: Login to AWS console (<https://console.aws.amazon.com/>) and login using below details.

Username (Root User) : helioaetest@gmail.com

Password: sep@321#

Step 2: Navigate to virtual machines blade in N. Virginia region and start below 3 virtual machines.

	Name	Instance ID	Instance state	Instance type	Status check	Alarm statu
<input type="checkbox"/>	DEP	i-07fff61925547f9a2	Running	t2.micro	2/2 checks passed	No alarms
<input checked="" type="checkbox"/>	SVC&LIBS	i-0516463919081f66e	Running	t2.micro	2/2 checks passed	No alarms
<input type="checkbox"/>	CLT	i-01645b626833b70ef	Running	t2.micro	2/2 checks passed	No alarms

Step 3: ssh to Deployer setup VM.

IP: **23.21.82.215**

Username: **deployer**

Password: **deployer321**

Step 4: Navigate to `/home/deployer/THE_DEPLOYER_V1/TBX_SRC` and execute `run.sh` script

Step 5: Please proceed with deployment as follows.

```
[deployer@ip-172-31-19-241 SRC]$ ./run.sh
=====
Welcome To The Deployer - Ver 1.0.2 (2021)
=====
(1) Deploy Release(s)
(2) Adhoc Release Deployment
(3) Take Backup(s) - Under Construction
(4) Apply Database Package(s) - Under Construction
(5) Update Dashboards
(6) Quit
Enter Your Choice [ 1 - 6 ] :
1
-----
Environment profiles for ip-172-31-19-241.ec2.internal
-----
(1) SEP_DEPLOYER
(#) Back
-----
Select the environment name :
SEP_DEPLOYER
-----
You have selected the SEP_DEPLOYER
-----
Application Port      : 8080
Application User      : deployer
Environment Type      : TOMCAT | SEP_DEPLOYER
Current Release Version : 6.7.10.49.0
Last Updated On       : 30/04/2021 16:14:17
Current DB Version    : 6.7.10.50.0
Last DB Updated On    : 30/04/2021 04:43:20
-----
Verify connectivity between servers
INFO : 172.31.25.79 Connected
INFO : 172.31.21.146 Connected
-----
Press (Y)Continue (B)Back (N)Disconnect
y
-----
ALL AVAILABLE RELEASES
-----
#  RELEASE ID      UPLOADED DATE
#  6.7.10.50.0      20210429
Enter Release For Deployment :
6.7.10.50.0
```

- 1) Select the required option from deployment menu (Option 1)
- 2) Select the deployment Environment (SEP_DEPLOYER)
- 3) After verifying connectivity with destination servers and tool will prompt for conformation (Enter Y)
- 4) Select the release version (6.7.10.50.0)

Step 6: Tool will prompt artifacts for the final validation. Then proceed for backup Proceed(Enter Y)

```
Enter Release For Deployment :  
6.7.10.50.0  
-----  
COMPLETE RELEASE SUMMARY  
-----  
Release Summary :6.7.10.50.0  
-----  
SERVICES   : Service_01.war,Service_02.war  
LIBS       : Lib_01.jar,Lib_02.jar  
CLIENTS    : Module_01.zip,Module_02.zip  
Press (Y)Continue (B)Back (N)Disconnect (S) Skip -> (Backup Process) :  
Y
```

Step 7: Tool will back up the artifacts(Only Deploying artifacts with the release) Prompt for Deployment confirmation. (Enter Y)

```
Press (Y)Continue (B)Back (N)Disconnect (S) Skip -> (Backup Process) :
```

```
Y
```

```
Release bundling process started
```

```
Please wait...
```

```
Release bundling process completed
```

```
Executing backup rule validator...
```

```
Backup rule validator | Success
```

```
Executing deploy rule validator...
```

```
Deploy rule validator | Success
```

```
Backup process starting
```

```
BKP : CLIENTS - STARTING BACKUP PROCESS ...
```

```
BKP : CLIENTS - Module_01.zip | SUCCESS | 172.31.25.79
```

```
BKP : CLIENTS - Module_02.zip | SUCCESS | 172.31.25.79
```

```
BKP : CLIENTS - END OF BACKUP PROCESS ...
```

```
BKP : AGENT.XML - STARTING BACKUP PROCESS ...
```

```
BKP : Agent.xml | SUCCESS
```

```
BKP : AGENT.XML - END OF BACKUP PROCESS ...
```

```
BKP : SERVICES - STARTING BACKUP PROCESS ...
```

```
BKP : SERVICES - Service_01.war | SUCCESS | 172.31.21.146
```

```
BKP : SERVICES - Service_02.war | SUCCESS | 172.31.21.146
```

```
BKP : SERVICES - END OF BACKUP PROCESS ...
```

```
BKP : LIBS - STARTING BACKUP PROCESS ...
```

```
BKP : LIBS - Lib_01.jar | SUCCESS | 172.31.21.146
```

```
BKP : LIBS - Lib_02.jar | SUCCESS | 172.31.21.146
```

```
BKP : LIBS - END OF BACKUP PROCESS ...
```

```
Backup process completed
```

```
Backup process completed & system is ready to start deployment
```

```
Press (Y)Continue (N)Disconnect -> (Release Deployment)
```

```
Y
```

Step 8: Then Tool will automatically do the deployment and start the md5sum verification

```
Backup process completed & system is ready to start deployment
Press (Y)Continue (N)Disconnect -> (Release Deployment)
Y
```

Deployment process starting

```
DEP : CLIENTS - STARTING DEPLOYMENT PROCESS ...
DEP : CLIENTS - Module_01.zip | SUCCESS | 172.31.25.79
DEP : CLIENTS - Module_02.zip | SUCCESS | 172.31.25.79
DEP : CLIENTS - END OF DEPLOYMENT PROCESS ...

DEP : AGENT.XML - STARTING DEPLOYMENT PROCESS ...
DEP : AGENT.XML - Downloading ...
DEP : AGENT.XML - Updating Inprogress ...
DEP : AGENT.XML - Module 'Module_01' Not Found
DEP : AGENT.XML - Module 'Module_02' Not Found
DEP : AGENT.XML - Upload completed
DEP : AGENT.XML - END OF DEPLOYMENT PROCESS ...

DEP : SERVICES - STARTING DEPLOYMENT PROCESS ...
DEP : SERVICES - Service_01.war | SUCCESS | 172.31.21.146
DEP : SERVICES - Service_02.war | SUCCESS | 172.31.21.146
DEP : SERVICES - END OF DEPLOYMENT PROCESS ...

DEP : LIBS - STARTING DEPLOYMENT PROCESS ...
DEP : LIBS - Lib_01.jar | SUCCESS | 172.31.21.146
DEP : LIBS - Lib_02.jar | SUCCESS | 172.31.21.146
DEP : LIBS - END OF DEPLOYMENT PROCESS ...
```

Deployment process completed

Release verification process started ...

----- CLIENTS - ARTIFACT(S) COMPARISON STARTED -----						
MD5 :	CLIENTS	172.31.25.79	Module_02.zip	d41d8cd98f00b204e9800998ecf8427e(REL)	MD5SUM RETRIVAL FAILED (DEP)	FAILED
MD5 :	CLIENTS	172.31.25.79	Module_01.zip	d41d8cd98f00b204e9800998ecf8427e(REL)	MD5SUM RETRIVAL FAILED (DEP)	FAILED
----- END OF CLIENTS - ARTIFACT(S) COMPARISON -----						
----- SERVICES - ARTIFACT(S) COMPARISON STARTED -----						
MD5 :	SERVICES	172.31.21.146	Service_02.war	d41d8cd98f00b204e9800998ecf8427e(REL)	d41d8cd98f00b204e9800998ecf8427e(DEP)	SUCCESS
MD5 :	SERVICES	172.31.21.146	Service_01.war	d41d8cd98f00b204e9800998ecf8427e(REL)	d41d8cd98f00b204e9800998ecf8427e(DEP)	SUCCESS
----- END OF SERVICES - ARTIFACT(S) COMPARISON -----						
----- LIBS - ARTIFACT(S) COMPARISON STARTED -----						
MD5 :	LIBS	172.31.21.146	Lib_02.jar	d41d8cd98f00b204e9800998ecf8427e(REL)	MD5SUM RETRIVAL FAILED (DEP)	FAILED
MD5 :	LIBS	172.31.21.146	Lib_01.jar	d41d8cd98f00b204e9800998ecf8427e(REL)	MD5SUM RETRIVAL FAILED (DEP)	FAILED
----- END OF LIBS - ARTIFACT(S) COMPARISON -----						

Verification

Log in to below servers. And Navigate to mentioned locations. Then Verify files with updated time and md5sum values.

Servicers and Libs Deployment Server

IP: **3.217.161.108**

Username: **deployer**

Password: **deployer321**

Services location: **/home/deployer/webapps**

```
[deployer@ip-172-31-21-146 webapps]$ pwd
/home/deployer/webapps
[deployer@ip-172-31-21-146 webapps]$ ls -ltrh
total 0
-rwxr-xr-x 1 deployer deployer 0 Apr 30 16:14 Service_01.war
-rwxr-xr-x 1 deployer deployer 0 Apr 30 16:14 Service_02.war
[deployer@ip-172-31-21-146 webapps]$
```

Libs location : **/home/deployer/libs**

```
[deployer@ip-172-31-21-146 libs]$ pwd
/home/deployer/libs
[deployer@ip-172-31-21-146 libs]$ ls -ltrh
total 0
-rwxr-xr-x 1 deployer deployer 0 Apr 30 16:14 Lib_01.jar
-rwxr-xr-x 1 deployer deployer 0 Apr 30 16:14 Lib_02.jar
[deployer@ip-172-31-21-146 libs]$
```

Clients deployment server

IP: **3.221.91.181**

Username: **deployer**

Password: **deployer321**

Client location: **/home/deployer/tbx_jars**

```
[deployer@ip-172-31-25-79 tbx_jars]$ pwd
/home/deployer/tbx_jars
[deployer@ip-172-31-25-79 tbx_jars]$ ls -ltrh
total 8.0K
-rwxr-xr-x 1 deployer deployer  0 Apr 30 16:14 Module_01.zip
-rwxr-xr-x 1 deployer deployer  0 Apr 30 16:14 Module_02.zip
-rwxr-xr-x 1 deployer deployer 8.0K Apr 30 16:14 agent.xml
[deployer@ip-172-31-25-79 tbx_jars]$ █
```