

Introduction

RCU utility helps in following automated creation of weblogic resources for FCUBS:

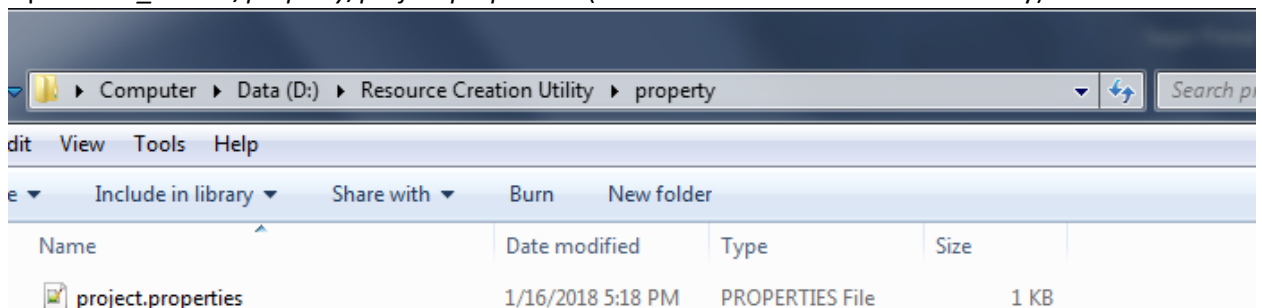
- Manage Server
- File Store
- JMS Server
- Subdeployment
- Queue Connection Factories (Multiple)
- XA Queues (Multiple)
- Queues (Multiple)
- System Module

Sample Case Study

Suppose I need to **create 100 queues** on my server for which I have **already created Managed Server(called MangServer_ITR)**. But have not created any JMS Server, Filestore, Subdeployment etc...

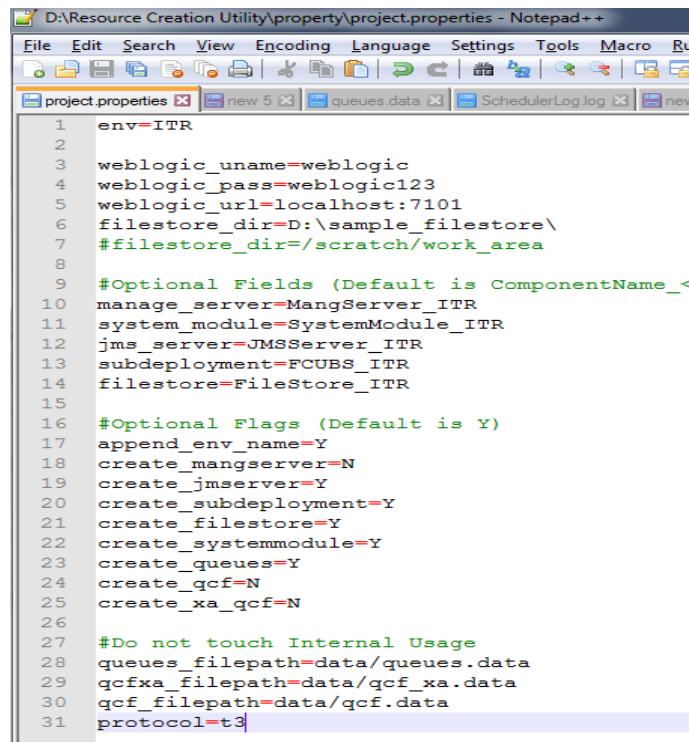
To create these queues, I will follow these steps:

1. Open '`<rcu_home>/property/project.properties`' (RCU means Resource Creation Utility)



2. Check following properties specially

env	Environment Name (like BMOITR, BMOFSH)
weblogic_uname	Weblogic Username
weblogic_pass	Weblogic Password
weblogic_url	Weblogic console URL
filestore_dir	Directory for file store
manage_server	Name of Managed Server

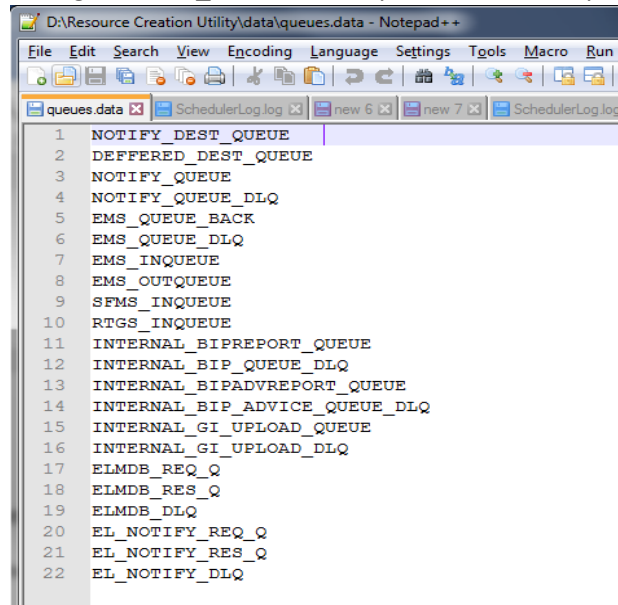


```
D:\Resource Creation Utility\property\project.properties - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run
project.properties new 5 queues.data SchedulerLog.log
1 env=ITR
2
3 weblogic_username=weblogic
4 weblogic_pass=weblogic123
5 weblogic_url=localhost:7101
6 filestore_dir=D:\sample_filestore\
7 #filestore_dir=/scratch/work_area
8
9 #Optional Fields (Default is ComponentName_<
10 manage_server=MangServer_ITR
11 system_module=SystemModule_ITR
12 jms_server=JMSServer_ITR
13 subdeployment=FCUBS_ITR
14 filestore=FileStore_ITR
15
16 #Optional Flags (Default is Y)
17 append_env_name=Y
18 create_mangserver=N
19 create_jmsserver=Y
20 create_subdeployment=Y
21 create_filestore=Y
22 create_systemmodule=Y
23 create_queues=Y
24 create_qcf=N
25 create_xa_qcf=N
26
27 #Do not touch Internal Usage
28 queues_filepath=data/queues.data
29 qcfxa_filepath=data/qcf_xa.data
30 qcf_filepath=data/qcf.data
31 protocol=t3
```

3. Creation of queues has pre-requisites of JMS Server, Subdeployment, Filestore so those flags are also kept as 'Y'

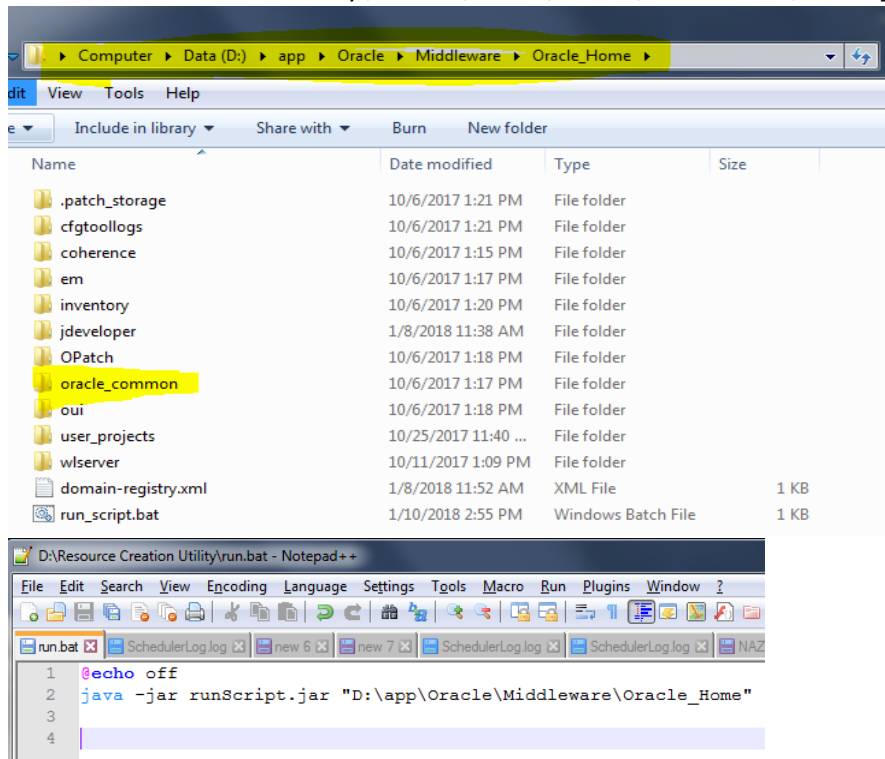
Note: - You need not worry about pre-requisites because program will give error if any pre-requisite is not present.

4. Now go to '<rcu_home>/data/queues.data' and put **all JNDI names** separated by new newline

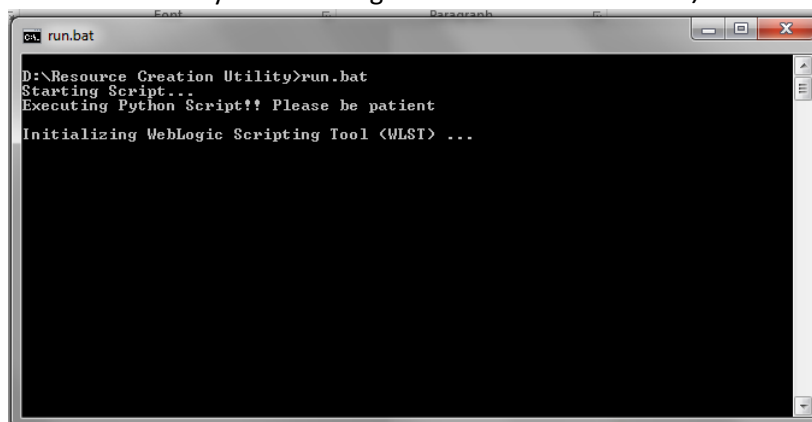


```
D:\Resource Creation Utility\data\queues.data - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run
queues.data SchedulerLog.log new 6 new 7 SchedulerLog.log
1 NOTIFY_DEST_QUEUE
2 DEFERRED_DEST_QUEUE
3 NOTIFY_QUEUE
4 NOTIFY_QUEUE_DLQ
5 EMS_QUEUE_BACK
6 EMS_QUEUE_DLQ
7 EMS_INQUEUE
8 EMS_OUTQUEUE
9 SFMS_INQUEUE
10 RTGS_INQUEUE
11 INTERNAL_BIPREPORT_QUEUE
12 INTERNAL_BIP_QUEUE_DLQ
13 INTERNAL_BIPADVREPORT_QUEUE
14 INTERNAL_BIP_ADVICE_QUEUE_DLQ
15 INTERNAL_GI_UPLOAD_QUEUE
16 INTERNAL_GI_UPLOAD_DLQ
17 ELMDB_REQ_Q
18 ELMDB_RES_Q
19 ELMDB_DLQ
20 EL_NOTIFY_REQ_Q
21 EL_NOTIFY_RES_Q
22 EL_NOTIFY_DLQ
```

5. Go to run.bat/.sh and update weblogic_home path of your server (In my case localhost is my server but in linux it is usually /scratch/oracle/Oracle/Middleware/Oracle_Home)



6. If your application server is a remote server copy the RCU directory to remote server anywhere. (In my case it is localhost so I don't need to put it on any other server)
7. Now we are ready to roll. Just go ahead and start 'run.bat/sh'



```

C:\windows\system32\cmd.exe - run.bat
==> Skipped Manage Server Creation
-----Creating File Store-----
==> Filestore "FileStore_ITR" already exists
-----Creating JMS Server-----
==> JMS Server "JMServer_ITR" already exists
-----Creating System Module-----
No stack trace available.
==> Creating System Module "SystemModule_ITR"...
==> System Module Created: SystemModule_ITR
-----Creating Subdeployment-----
No stack trace available.
==> Creating SubDeployment "FCUBS_ITR in Module "SystemModule_ITR"...
==> SubDeployment Created: FCUBS_ITR
==> Skipped Queue Connection Factory(QCF) Creation
-----Creating Queues-----
==> Found 22 queues in data/queues.data
No stack trace available.
==> Creating Queue NOTIFY_DEST_QUEUE with name "NOTIFY_DEST_QUEUE_ITR..."
==> Queue Created: NOTIFY_DEST_QUEUE
No stack trace available.
==> Creating Queue DEFERRED_DEST_QUEUE with name "DEFERRED_DEST_QUEUE_ITR..."
==> Queue Created: DEFERRED_DEST_QUEUE
No stack trace available.
==> Creating Queue NOTIFY_QUEUE with name "NOTIFY_QUEUE_ITR..."
==> Queue Created: NOTIFY_QUEUE
No stack trace available.
==> Creating Queue NOTIFY_QUEUE_DLQ with name "NOTIFY_QUEUE_DLQ_ITR..."
==> Queue Created: NOTIFY_QUEUE_DLQ
No stack trace available.
==> Creating Queue EMS_QUEUE_BACK with name "EMS_QUEUE_BACK_ITR..."
==> Queue Created: EMS_QUEUE_BACK
No stack trace available.
==> Creating Queue EMS_QUEUE_DLQ with name "EMS_QUEUE_DLQ_ITR..."
==> Queue Created: EMS_QUEUE_DLQ
No stack trace available.
==> Creating Queue EMS_INQUEUE with name "EMS_INQUEUE_ITR..."
==> Queue Created: EMS_INQUEUE
No stack trace available.
==> Creating Queue EMS_OUTQUEUE with name "EMS_OUTQUEUE_ITR..."
==> Queue Created: EMS_OUTQUEUE
No stack trace available.
==> Creating Queue SFMS_INQUEUE with name "SFMS_INQUEUE_ITR..."
==> Queue Created: SFMS_INQUEUE
No stack trace available.
==> Creating Queue RTGS_INQUEUE with name "RTGS_INQUEUE_ITR..."
==> Queue Created: RTGS_INQUEUE
No stack trace available.
==> Creating Queue INTERNAL_BIPREPORT_QUEUE with name "INTERNAL_BIPREPORT_QUEUE_ITR..."
==> Queue Created: INTERNAL_BIPREPORT_QUEUE
No stack trace available.
==> Creating Queue INTERNAL_BIP_QUEUE_DLQ with name "INTERNAL_BIP_QUEUE_DLQ_ITR..."
..
==> Queue Created: INTERNAL_BIP_QUEUE_DLQ
No stack trace available.
==> Creating Queue INTERNAL_BIPADUREPORT_QUEUE with name "INTERNAL_BIPADUREPORT_QUEUE_ITR..."
==> Queue Created: INTERNAL_BIPADUREPORT_QUEUE
No stack trace available.
==> Creating Queue INTERNAL_BIP_ADVICE_QUEUE_DLQ with name "INTERNAL_BIP_ADVICE_QUEUE_DLQ_ITR..."
==> Queue Created: INTERNAL_BIP_ADVICE_QUEUE_DLQ
No stack trace available.
==> Creating Queue INTERNAL_GI_UPLOAD_QUEUE with name "INTERNAL_GI_UPLOAD_QUEUE_ITR..."
==> Queue Created: INTERNAL_GI_UPLOAD_QUEUE
No stack trace available.
==> Creating Queue INTERNAL_GI_UPLOAD_DLQ with name "INTERNAL_GI_UPLOAD_DLQ_ITR..."
..
==> Queue Created: INTERNAL_GI_UPLOAD_DLQ
No stack trace available.
==> Creating Queue ELMDB_REQ_Q with name "ELMDB_REQ_Q_ITR..."
==> Queue Created: ELMDB_REQ_Q
No stack trace available.
==> Creating Queue ELMDB_RES_Q with name "ELMDB_RES_Q_ITR..."
==> Queue Created: ELMDB_RES_Q
No stack trace available.
==> Creating Queue ELMDB_DLQ with name "ELMDB_DLQ_ITR..."
==> Queue Created: ELMDB_DLQ
No stack trace available.
==> Creating Queue EL_NOTIFY_REQ_Q with name "EL_NOTIFY_REQ_Q_ITR..."
==> Queue Created: EL_NOTIFY_REQ_Q

```

```
==> Creating Queue ELMDB_DLQ with name "ELMDB_DLQ_ITR...
==> Queue Created: ELMDB_DLQ
No stack trace available.
==> Creating Queue EL_NOTIFY_REQ_Q with name "EL_NOTIFY_REQ_Q_ITR...
==> Queue Created: EL_NOTIFY_REQ_Q
No stack trace available.
==> Creating Queue EL_NOTIFY_RES_Q with name "EL_NOTIFY_RES_Q_ITR...
==> Queue Created: EL_NOTIFY_RES_Q
No stack trace available.
==> Creating Queue EL_NOTIFY_DLQ with name "EL_NOTIFY_DLQ_ITR...
==> Queue Created: EL_NOTIFY_DLQ
==> Skipped XA Queue Connection Factory Creation
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation
is completed.
Activation completed
Execution Successful!! Enjoy
D:\Resource Creation Utility>
```

All Resources are now created Successfully :D

ins0ie.portaif_?http=true&pageLabel=JMSsystemmodule&omigenerafrage&cuinandie=com.bea.console.nanoies.jmllanandie%20 com.bea%3AName%3Usystemmodule_11K%2L1ype%3UJMSsystemResource %29

This page displays general information about a JMS system module and its resources. It also allows you to configure new resources and access existing resources.

Name:	SystemModule_JTR	The name of this JMS system module. More Info...
Scope:	Global	Specifies if the JMS system module is accessible within the domain, a partition, or a resource group template. More Info...
Descriptor File Name:	jms/systemmodule_itr-jms.xml	The name of the JMS module descriptor file. More Info...

This page summarizes the JMS resources that have been created for this JMS system module, including queue and topic destinations, connection factories, JMS templates, destination sort keys, destination quota, distributed destinations, foreign servers, and store-and-forward parameters.

> [Customize this table](#)

Summary of Resources

<input type="checkbox"/> Name ↕	Type	JNDI Name	Subdeployment	Targets
<input type="checkbox"/> DEFERRED_DEST_QUEUE_ITR	Queue	DEFERRED_DEST_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> ELMDB_DLQ_ITR	Queue	ELMDB_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> ELMDB_REQ_Q_ITR	Queue	ELMDB_REQ_Q	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> ELMDB_RES_Q_ITR	Queue	ELMDB_RES_Q	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EL_NOTIFY_DLQ_ITR	Queue	EL_NOTIFY_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EL_NOTIFY_REQ_Q_ITR	Queue	EL_NOTIFY_REQ_Q	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EL_NOTIFY_RES_Q_ITR	Queue	EL_NOTIFY_RES_Q	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EMS_INQUEUE_ITR	Queue	EMS_INQUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EMS_OUTQUEUE_ITR	Queue	EMS_OUTQUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EMS_QUEUE_BACK_ITR	Queue	EMS_QUEUE_BACK	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> EMS_QUEUE_DLQ_ITR	Queue	EMS_QUEUE_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_BIPADVREPORT_QUEUE_ITR	Queue	INTERNAL_BIPADVREPORT_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_BIPREPORT_QUEUE_ITR	Queue	INTERNAL_BIPREPORT_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_BIP_ADVICE_QUEUE_DLQ_ITR	Queue	INTERNAL_BIP_ADVICE_QUEUE_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_BIP_QUEUE_DLQ_ITR	Queue	INTERNAL_BIP_QUEUE_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_GI_UPLOAD_DLQ_ITR	Queue	INTERNAL_GI_UPLOAD_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> INTERNAL_GI_UPLOAD_QUEUE_ITR	Queue	INTERNAL_GI_UPLOAD_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> NOTIFY_DEST_QUEUE_ITR	Queue	NOTIFY_DEST_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> NOTIFY_QUEUE_DLQ_ITR	Queue	NOTIFY_QUEUE_DLQ	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> NOTIFY_QUEUE_ITR	Queue	NOTIFY_QUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> RTGS_INQUEUE_ITR	Queue	RTGS_INQUEUE	FCUBS_JTR	JMSServer_JTR
<input type="checkbox"/> SPMS_INQUEUE_ITR	Queue	SPMS_INQUEUE	FCUBS_JTR	JMSServer_JTR

Some Cases When Error Occurred

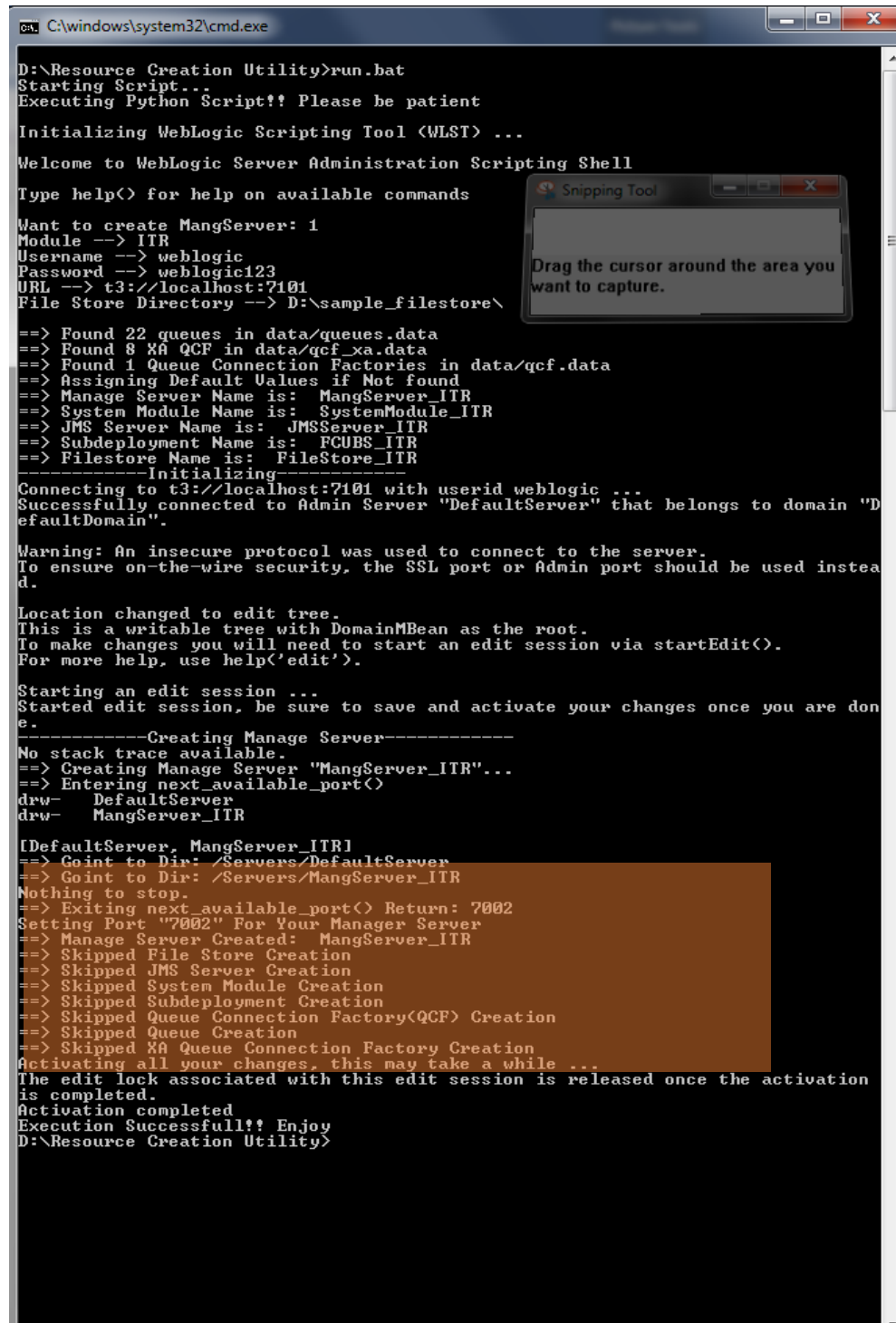
Note: All Errors starts with **

Case 1: Tried creating Queues but MangServer_ITR does not exist

```

C:\ Select C:\windows\system32\cmd.exe
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help(<) for help on available commands
Want to create MangServer: 0
Module --> ITR
Username --> weblogic
Password --> weblogic123
URL --> t3://localhost:7101
File Store Directory --> D:\sample_filestore\
==> Found 22 queues in data/queues.data
==> Found 8 XA QCF in data/qcf_xa.data
==> Found 1 Queue Connection Factories in data/qcf.data
==> Assigning Default Values if Not found
==> Manage Server Name is: MangServer_ITR
==> System Module Name is: SystemModule_ITR
==> JMS Server Name is: JMServer_ITR
==> Subdeployment Name is: FCUBS_ITR
==> Filestore Name is: FileStore_ITR
-----Initializing-----
Connecting to t3://localhost:7101 with userid weblogic ...
Successfully connected to Admin Server "DefaultServer" that belongs to domain "D
efaultDomain".
Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instea
d.
Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit(< >).
For more help, use help('edit').
You already have an edit session in progress and hence WLST will
continue with your edit session.
Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are don
e.
==> Skipped Manage Server Creation
-----Creating File Store-----
No stack trace available.
==>*** Manage Server "MangServer_ITR" Does not exist!!
==>*** Create this and Retry
-----Creating JMS Server-----
No stack trace available.
==>*** Manage Server "MangServer_ITR" Does not exist!!
==>*** Create it and Retry
==> Skipped System Module Creation
-----Creating Subdeployment-----
No stack trace available.
==>*** System Module "SystemModule_ITR" Does not exist!!
==>*** Create it and Retry
==> Skipped Queue Connection Factory(QCF) Creation
-----Creating Queues-----
==> Found 22 queues in data/queues.data
No stack trace available.
==>*** System Module "SystemModule_ITR" Does not exist!!
==>*** Create it and Retry
==> Skipped XA Queue Connection Factory Creation
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation
is completed.
Activation completed
Execution Successful!! Enjoy
D:\Resource Creation Utility>
```

Case 2: Creating Manage Server



```
C:\windows\system32\cmd.exe

D:\Resource Creation Utility>run.bat
Starting Script...
Executing Python Script!! Please be patient

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help(<) for help on available commands

Want to create MangServer: 1
Module --> ITR
Username --> weblogic
Password --> weblogic123
URL --> t3://localhost:7101
File Store Directory --> D:\sample_filestore\

==> Found 22 queues in data/queues.data
==> Found 8 XA QCF in data/qcf_xa.data
==> Found 1 Queue Connection Factories in data/qcf.data
==> Assigning Default Values if Not found
==> Manage Server Name is: MangServer_ITR
==> System Module Name is: SystemModule_ITR
==> JMS Server Name is: JMServer_ITR
==> Subdeployment Name is: PCUBS_ITR
==> Filestore Name is: FileStore_ITR
-----
Initializing
Connecting to t3://localhost:7101 with userid weblogic ...
Successfully connected to Admin Server "DefaultServer" that belongs to domain "DefaultDomain".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit(<).
For more help, use help('edit').

Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.

-----Creating Manage Server-----
No stack trace available.
==> Creating Manage Server "MangServer_ITR"...
==> Entering next_available_port(<)
drw- DefaultServer
drw- MangServer_ITR

[DefaultServer, MangServer_ITR]
==> Goint to Dir: /Servers/DefaultServer
==> Goint to Dir: /Servers/MangServer_ITR
Nothing to stop.
==> Exiting next_available_port(<) Return: 7002
Setting Port "7002" For Your Manager Server
==> Manage Server Created: MangServer_ITR
==> Skipped File Store Creation
==> Skipped JMS Server Creation
==> Skipped System Module Creation
==> Skipped Subdeployment Creation
==> Skipped Queue Connection Factory(QCF) Creation
==> Skipped Queue Creation
==> Skipped XA Queue Connection Factory Creation
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
Execution Successful!! Enjoy
D:\Resource Creation Utility>
```

```
C:\windows\system32\cmd.exe

D:\Resource Creation Utility>run.bat
Starting Script...
Executing Python Script!! Please be patient
Initializing WebLogic Scripting Tool (WLST) ...
Welcome to WebLogic Server Administration Scripting Shell
Type help(<) for help on available commands

Want to create MangServer: 0
Module --> ITR
Username --> weblogic
Password --> weblogic123
URL --> t3://localhost:7101
File Store Directory --> D:\sample_filestore\

==> Found 22 queues in data/queues.data
==> Found 8 XA QCF in data/qcf_xa.data
==> Found 1 Queue Connection Factories in data/qcf.data
==> Assigning Default Values if Not found
==> Manage Server Name is: MangServer_ITR
==> System Module Name is: SystemModule_ITR
==> JMS Server Name is: JMSServer_ITR
==> Subdeployment Name is: FCUBS_ITR
==> Filestore Name is: FileStore_ITR
-----Initializing-----
Connecting to t3://localhost:7101 with userid weblogic ...
Successfully connected to Admin Server "DefaultServer" that belongs to domain "DefaultDomain".

Warning: An insecure protocol was used to connect to the server.
To ensure on-the-wire security, the SSL port or Admin port should be used instead.

Location changed to edit tree.
This is a writable tree with DomainMBean as the root.
To make changes you will need to start an edit session via startEdit(<).
For more help, use help('edit').

Starting an edit session ...
Started edit session, be sure to save and activate your changes once you are done.
==> Skipped Manage Server Creation
-----Creating File Store-----
No stack trace available.
==> Filestore "FileStore_ITR"...
==> Creating FileStore Directory: D:\sample_filestore\
==> FileStore Directory "D:\sample_filestore\" Created...
==> File Store Created: FileStore_ITR
-----Creating JMS Server-----
No stack trace available.
==> Creating JMS Server "JMSServer_ITR"...
==> JMS Server Created: JMSServer_ITR
==> Skipped System Module Creation
-----Creating Subdeployment-----
No stack trace available.
==> System Module "SystemModule_ITR" Does not exist!!
==> System Module "SystemModule_ITR" Does not exist!!
==> Create it and Retry
==> Skipped Queue Connection Factory(QCF) Creation
-----Creating Queues-----
==> Found 22 queues in data/queues.data
No stack trace available.
==> System Module "SystemModule_ITR" Does not exist!!
==> System Module "SystemModule_ITR" Does not exist!!
==> Create it and Retry
==> Skipped XA Queue Connection Factory Creation
Activating all your changes, this may take a while ...
The edit lock associated with this edit session is released once the activation is completed.
Activation completed
Execution Successful!! Enjoy
D:\Resource Creation Utility>
```

Contact

In case of Some Error (or) bugs (or) if you wish to get more updates on this utility. Please contact me at sagar.pawar@oracle.com