

# Automation Deployment Guide

## Version History:

Version	Date	Author	Comment
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## Purpose :

The purpose of this guide is to automate the process of Building and Deploying EAR for TIBCO Business works application across TIBCO Administrator Environment.

By integrating SVN ,Jenkins & Ant Script , the below activities will be done by just one click in Jenkins :

- 1 - Use BuildEar utility to build the EAR from BW Application code.
- 2- Use Appmanage utility with export option to Export XML from the above Generated EAR .
- 3 -Update the exported XML values from property File that contains the values of the environment (ex:DEV ).
- 4 - Copy the generated EAR and updated XML to the remote machine that you will deploy on it.
- 5- Create any deployment prerequisites that will be used by the application like (Creating EMS Q , DB Table,..etc)
- 6 - Use Appmanage utility to Deploy the BW application in the environment.

## Scope:

This guide will help you to setup ,configure & troubleshoot the tools and scripts that will help you to run the Automation POC.

Automation POC will be done with the below components & Software version

### The key components of Automation are:

- People(Developers)
- BW Application code (on Developer's desktop with windows 7)
- SVN repository & Continuous Integration (CI)server (Separate Windows server)
- Deployment Environment (Unix sever with Solaris 10 )

### Software version:

Serial NO	Software List existing	Where to install
1	TIB_rv_8.3.2	CI windows server and also on the Deployment Unix Server
2	TIB_tra_5.7.3	
3	TIB_ems_6.3.0	
4	TIB_bw_5.9.3	
5	TIB_adadb_7.0.0	
6	TIB_tibcoadmin_5.7.0	
7	JRE	CI windows server
8	CollabNetSubversionEdge-4.0.5_setup-x86_64	
9	Jenkins-1.553	
10	jdk1.6.0_27	
11	apache-ant-1.9.3-bin	
12	TortoiseSVN-1.8.5.25224-x64-svn-1.8.8	

## Prerequisites:

- A prior knowledge of SVN , Ant Script & TIBCO BW script deployment is assumed.
- The below software need to be downloaded & installed in the server that will act as SVN repository & continuous integration server :
  - 1-**TIBCO** (RV,TRA,BW,EMS, any other TIBCO Installation required for building Ear correctly )
  - 2-**JRE** then **Subversion Edge** (ex: CollabNetSubversionEdge-4.0.5\_setup-x86\_64)
  - 3-**Jenkins** (ex: jenkins-1.553) and -Enrich Jenkins Functionality by Adding some plugins (ex: discard-old-build)
  - 4-**JDK** (ex:jdk1.6.0\_27)then ANT (ex:apache-ant-1.9.3-bin)
  - 5-Enrich Ant Functionality by Adding external JARs inside ANT lib folder (ex:“**xmltask.JAR**” and **ant-contrib-0.6** JAR )

# 1. Overview on Tools required for Automation

## 1.1. Version Control System

### 1.1.1. Subversion Edge

Free web a Version Control Systems that simplifies administration and configuration of subversion **server** by providing the below capabilities

- Repository Management: Create, manage, browse, and local backup
- User Management: Manage roles, permissions and access rules
- Administration: Authentication, server management and health analytics

If you are Interested to know more about tool you can visit to this URL :

<http://www.collab.net/products/subversion>

And Here Is the subversion Help <http://help.collab.net/>

#### 1.1.1.1. Restart Subversion admin GUI & create your Repository

-CollabNet Subversion Edge server edition uses apache2 server for http connection and it provides a Web-based interface for configuring the subversion server and managing the repositories. the default port for accessing the GUI is 3343. so, by entering `http://localhost:3343` in the address bar, you will be brought to the login page (admin/admin)..

-If the page is down, This usually indicates the CollabNet Subversion Edge service has stopped, which can be verified by entering `services.msc` in the search box to go to the local service window , and make sure that you restart the below service



-After making GUI up, create your repository and save your Repo URL, as we will connect to it later

-Make sure that the Repo URL is correct and no issue in the port , to avoid "Unexpected HTTP status 400 'Bad Request' while commit " ex: `http://as746:18080/svn/Middleware_Repository`

The screenshot shows the Subversion Edge web interface. The browser address bar contains `http://as746:3343/csvn/`. The page has a navigation menu with 'Repositories', 'Users', 'Administration', and 'Extensions'. The 'Status' page is active, displaying the following information:

Subversion status:	Up	Stop
Hostname:	AS746	
Repository parent:	<a href="http://AS746:18080/svn/">http://AS746:18080/svn/</a>	
Browse repositories:	<a href="http://AS746:18080/viewwc/">http://AS746:18080/viewwc/</a>	

### 1.1.2. TortoiseSVN:

a free open-source Windows **client** for the Apache Subversion, manages files and directories over time, developed as an extension for the Windows Explorer.

Kindly visit the below link for more info about the SVN Features:

[http://tortoisesvn.net/docs/release/TortoiseSVN\\_en/tsvn-preface-features.html](http://tortoisesvn.net/docs/release/TortoiseSVN_en/tsvn-preface-features.html)

#### 1.1.2.1 Connect SVN client with the Repository URL and commit the code.

I am assuming that your already aware of this part

## 1.2. Jenkins

Jenkins is Continuous Integration server with GUI that monitors executions of repeated jobs, support building and testing virtually any project.

Kindly visit this link for more info <http://jenkins-ci.org/content/about-jenkins-ci>

### 1.2.1. Enrich Jenkins Functionality by adding Jenkins Plugins

To Enrich Jenkins Functionality you can download the below plugins from this site (<https://updates.jenkins-ci.org/download/plugins/>)

- **discard-old-build**: This plugin provides a post-build step where you can discard old build results in detailed configuration (ex. keep only builds with specified status).
- Sometimes when you download plugins you may get (.zip) files then just rename with (.hpi) and then extract all the plugins and move to <jenkinsHome>/plugins/ directory ,Afterwards you probably need to restart Jenkins .

### 1.2.2. Restart Jenkins

Open CMD in CI windows server and go to Jenkins directory then run the below commands

```
C:\ProgramFiles\Jenkins>jenkins.exe stop  
C:\ProgramFiles\Jenkins>jenkins.exe start  
C:\ProgramFiles\Jenkins>jenkins.exe restart
```

## 1.3. ApacheAnt:

Free software tool for automating software build processes.

Kindly visit this link for more info <http://ant.apache.org/>

### 1.3.1. Advanced Ant Tasks /Jar required for Automation :

**1-Xmltask** required the usage of **Xmltask.jar** to allow you for XML manipulation activities (ex: replace xml value)

- Kindly visit the below link for more info  
<http://www.oopsconsultancy.com/software/xmltask/>

**2-<for>** task required the usage **contrib-0.6.jar** to allow you to do looping activities

- Kindly visit the below link for more info  
<http://ant-contrib.sourceforge.net/>

### 1.3.2. Overview on Ant's buildfiles ( build.xml )

Apache Ant's buildfiles are written in XML. Each buildfile contains one project and at least one (default) target. A target can depend on other targets. Targets contain task elements, A task is a piece of code that can be executed.

#### 1.3.2.1. Target Examples

##### 1.3.2..1.1. Clean

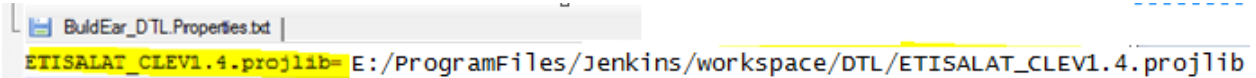
```
<target name="Clean"
    description="Delete EAR directory in the CI Windows server and create a new empty one ">
    <delete dir="{ear.dir}" failonerror="false"/>
    <mkdir dir="{ear.dir}"/>
</target>
```



#### 1.3.2.1.2. Build.EAR

-If you are using Design Time library in your code ,So please make sure that you open designer in CI server just one time to FIX any DTL broken reference .otherwise the build step will failed.

-You need to create Folder in CI server that contains DTL property file and put all used DTL inside this folder



```
BuildEar_DTL.Properties.txt |
ETISALAT_CLEVL.4.projlib= E:/ProgramFiles/Jenkins/workspace/DTL/ETISALAT_CLEVL.4.projlib
```

- You need to add the below property in your build.xml file

```
<property name="DTL.Property.Path"
value="E:\ProgramFiles\Jenkins\workspace\DTL\BuildEar_DTL.Properties.txt"/>

<target name="Build.EAR" depends="Clean" description="Validate and Build EAR for the BW project wih DTL">

    <exec executable="{tibco.BuildEar.path}" failonerror="true">

        <env key="PATH" path="{tibco.tr.home}"/> <arg value="-x"/> <arg value="-v"/>

            <arg value="-p"/> <arg value="{Remote.App.path}"/>

            <arg value="-o"/> <arg value="{Remote.EAR.Path}"/>

            <arg value="-ear"/> <arg value="{Archive.path}"/>

            <arg value="-a"/> <arg value="{DTL.Property.Path}"/>

        </exec>

    </target>
```

### 1.3.2.1.3. Export.XML

```
<target name="Export.XML" depends="Build.EAR" description=" Extracts the XML config file from the generated ear file with GV that defined inside the EAR ">
```

```
  <exec executable="C:\tibco\tra\5.7\bin\AppManage.exe" failonerror="true">
```

```
    <env key="PATH" path="C:\tibco\tra\5.7\bin"/>
```

```
    <arg value="-export"/> <arg value="-out"/> <arg value="{Exported.XML.Path}"/>
```

```
    <arg value="-ear"/> <arg value="{Remote.EAR.Path}"/>
```

```
  </exec>
```

```
</target>
```

### 1.3.2.1.4. UpdateXML

#### -Update Global variable values in the XML based on property File

```
<target name="UpdateXML" description="update the generated XML configuration values based on ENV Property file values " depends="init">
```

```
  <property file="{propertyFile.Name}" prefix="x"/>
```

```
  <local name="propertyList"/>
```

#### -loop on the values on the property file and replace the XML with these values

The below XMLTask & For Task will loop on the values on the property file and replace the XML with these values

```
<for list="{propertyList}" param="sequence">
```

```
  <sequential>
```

```
    <xmldata dest="{Updated.xml.Path}">
```

```
      <fileset file="{Updated.xml.Path}"/>
```

```
      <replace
```

```
        path="{x.@{sequence}.xpath}"
```

```
        withText="{x.@{sequence}.value}"/>
```

```
    </xmldata>
```

```
  </sequential>
```

```
</for>
```

### 1.3.2.1.5. Duplicate the XML Binding Node in case of Load Balance deployment

This is optional only if load Balance deployment is required

We need to duplicate the Binding Tag

```
<target name="AddBindingNode_LB" depends="Export.XML,init" description="Add Binding Node">
  <xmldata source="{Updated.xml.Path}">
    <copy path="//:application/:services/:bw/:bindings/:binding" buffer="initBindingBuffer"/>
  </xmldata>
  <xmldata source="{Updated.xml.Path}" dest="{Updated.xml.Path}">
    <paste path="//:application/:services/:bw/:bindings/:binding"
      position="after" buffer="initBindingBuffer"/>
  </xmldata>
</target>
```

### 1.3.2.1.6. Duplicate NVpairs inside the Each Binding for Each GV marked on Service level

This is optional only if load Balance deployment is required

We need to duplicate the NVPairs Tag

```
<target name="AddNVPairsNode_LB" depends="Export.XML,init,AddBindingNode_LB" description="Add
Binding Node">
  <xmldata source="{Updated.xml.Path}">
    <copy
      path="//:application/:services/:bw/:NVPairs[:NameValuePair/:name='ConnectionDetails/JMS_Connections/CLE
/ClientID']" buffer="initNVPairsBuffer"/>
  </xmldata>
  <xmldata source="{Updated.xml.Path}" dest="{Updated.xml.Path}">
    <paste path="//:application/:services/:bw/:bindings/:binding/:shutdown"
      position="after" buffer="initNVPairsBuffer"/>
  </xmldata>
</target>
```

### 1.3.2.1.7. Copy Deployment Files from CI server to Deployment Unix Machine

```
<target name="CopyDeploymentFilestoRemoteMachine" description="Copy the generated XML and updated Ear
to ENV UNIX Machine " depends="UpdateXML">
```

```
  <sshexec trust="true" host="{tibco.server.host}" username="{ssh.user}" password="{SSH.Password}"
```

```
  command="mkdir {Server.Config.Folder.Path};" failonerror="false"/>
```

```
  <scp trust="true" file="{Remote.EAR.Path}" todir="{SSH.User}:{SSH.Password}@{tibco.server.host}:{
SSH.Location}"/>
```

```
  <scp trust="true" file="{Updated.xml.Path}" todir="{SSH.User}:{SSH.Password}@{tibco.server.host}:{
SSH.Location}"/>
```

```
</target>
```

### 1.3.2.1.8. Deploy

-You need to add the below **properties** first in your build .xml to make you deployment comes with description

```
<property environment="env"/>
<property name="appmanage.deployment.description" value="${env.JOB_NAME}-Jenkins$
{env.BUILD_NUMBER}-SVN${env.SVN_REVISION}"/>
```

```
<target name="deployEar" depends="CreateDeployment Prerequisites" description=" Deploy EAR & XML using
Appmange and don't start application after deployment ">
```

```
  <sshexec trust="true" host="${tibco.server.host}" username="${SSH.User}" password="${SSH.Password}"
```

```
    command="cd ${Server.tibco.tra.home};
```

```
    ./AppManage -deploy -app ${tibco.admin.dir} -domain ${tibco.domain}
```

```
    -deployconfig ${tibco.app.xml.config} -ear ${tibco.app.earfile}
```

```
    -user ${tibco.admin.user} -pw ${tibco.admin.password} -desc ${appmanage.deployment.description} -nostart"
```

```
    failonerror="false"/>
```

```
</target>
```

### 1.3.2.1.9. Complete Sample for the Folder Setup & Configuration



WinRAR archive

## 2. Getting Started with Jenkins

### 2.1. Prerequisites

#### 2.1.1. Add the build.xml inside your Application

Example on the Folder structure:

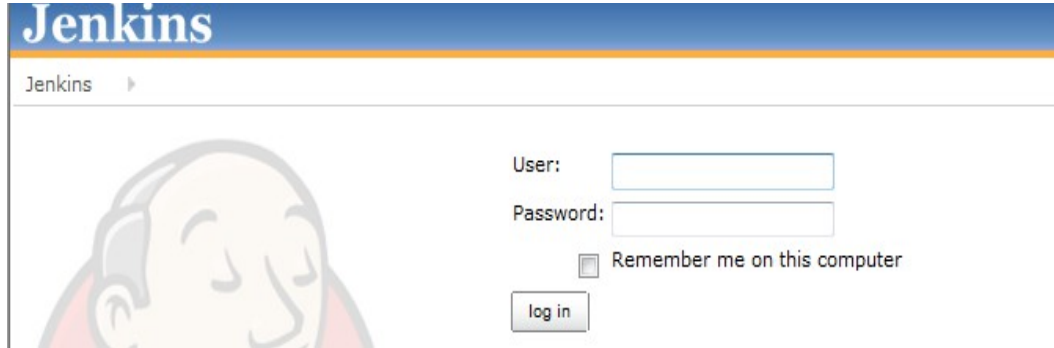
```
Code Folder
|_____ Your Application Code Folder
|_____ SupportResources
           |_____ Jenkins
                |_____ build.xml
```

#### 2.1.2. Modify property values in build.xml with the ENV & application details

#### 2.1.3. Check-in your code

## 2.2. Getting started with Jenkins

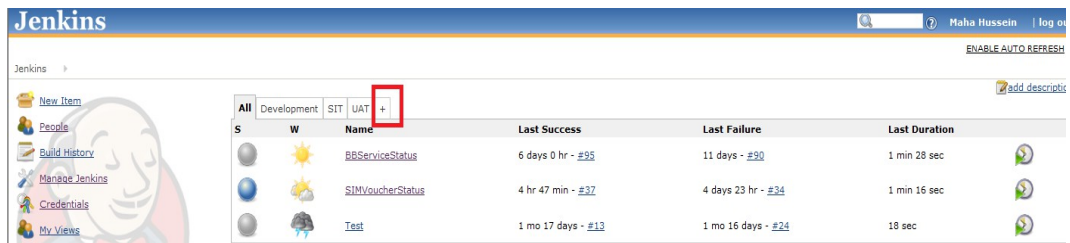
### 2.2.1. Login to Jenkins (<http://as746:1800/>)



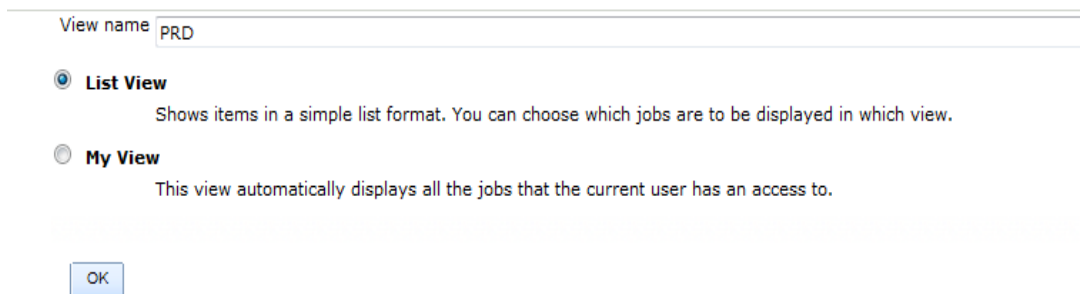
### 2.2.2. Manage Jenkins

#### 2.2.2.1. Add New Tap for any new Env

1-press (+) option



2-Write the Environment name then press next



3-if you need to take replica from jobs that currently exists in another Env,

Just pick the job names that you need.

---

Name	<input type="text" value="PRD"/>
Description	<div style="border: 1px solid #ccc; height: 60px; width: 100%;"></div> <p>[Escaped HTML] <a href="#">Preview</a></p>
Filter build queue	<input type="checkbox"/>
Filter build executors	<input type="checkbox"/>

---

**Job Filters**

Status Filter	<input type="text" value="All selected jobs"/>
Recurse in subfolders	<input type="checkbox"/>
<b>Jobs</b>	<input checked="" type="checkbox"/> BBSERVICESTATUS <input type="checkbox"/> SIMVOUCHERSTATUS <input type="checkbox"/> TEST
<input type="checkbox"/> Use a regular expression to include jobs into the view	

---

**Columns**

<input checked="" type="checkbox"/> <b>Status</b>
<input checked="" type="checkbox"/> <b>Weather</b>
<input checked="" type="checkbox"/> <b>Name</b>

---

#### 2.2.2.2. Create a new user for Jenkins

1-Double click on "Manage Users"

enkins >

# Manage Jenkins

**New version of Jenkins (1.566) is available for [download](#) ([changelog](#)).** Or Upgrade Automatically

- [Configure System](#)  
Configure global settings and paths.
- [Configure Global Security](#)  
Secure Jenkins; define who is allowed to access/u
- [Manage Users](#)  
Create/delete/modify users that can log in to this Jenkins

**Build Queue** -  
No builds in the queue.

**Build Executor Status** -

2-then choose “create User”

Jenkins > Jenkins' own user database >

# Users

These users can log into Jenkins. This is a sub set of [this list](#), which also contains auto-created users who rea

[Back to Dashboard](#)

[Manage Jenkins](#)

[Create User](#)

User Id		
	<a href="#">adelqebaly</a>	<a href="#">Adham Hisham Ahmed Elqebaly</a>
	<a href="#">mmaha</a>	<a href="#">Maha Hussein</a>

3-update the user Authority permissions

# Jenkins

Jenkins >

# Manage Jenkins

**New version of Jenkins (1.566) is available for [download](#) ([changelog](#)).** Or Upgrade Automatically

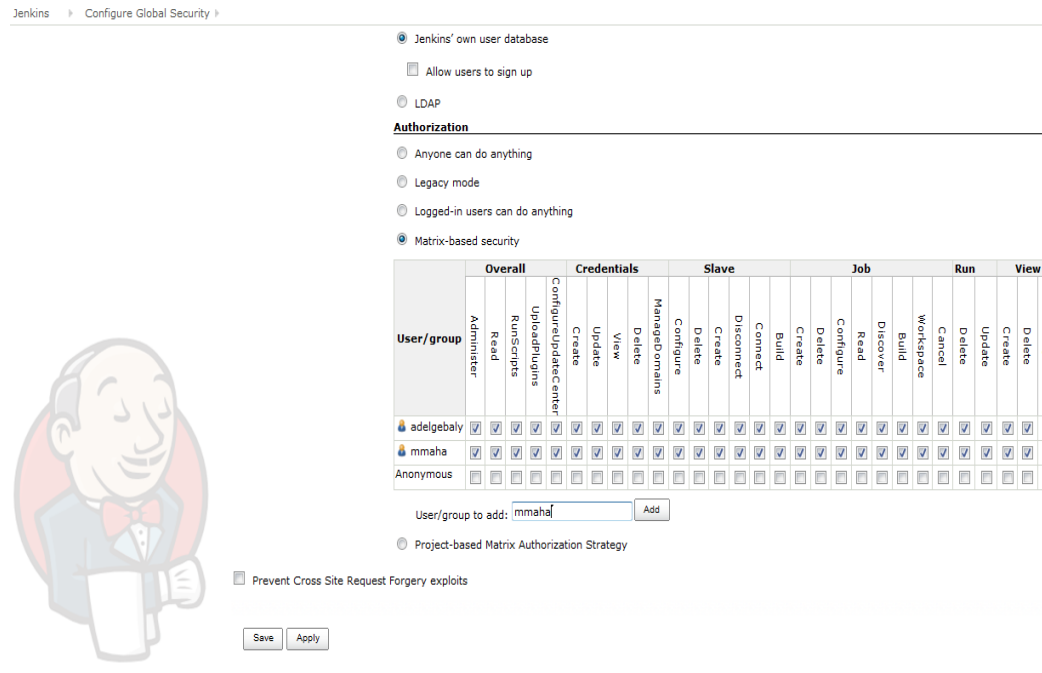
- [Configure System](#)  
Configure global settings and paths.
- [Configure Global Security](#)  
Secure Jenkins; define who is allowed to access/use the system.
- [Reload Configuration from Disk](#)  
Discard all the loaded data in memory and reload everything from file syste

**Build Queue** -  
No builds in the queue.

**Build Executor Status** -



#### 4- you need to write the new user name and then press add



Jenkins > Configure Global Security

Jenkins' own user database

Allow users to sign up

LDAP

**Authorization**

Anyone can do anything

Legacy mode

Logged-in users can do anything

Matrix-based security

User/group	Overall		Credentials				Slave				Job				Run		View			
	Administer	Read	Configure	Update	Delete	View	Configure	Update	Delete	Connect	Disconnect	Create	Delete	Discover	Build	Cancel	Delete	Update	Create	Delete
adelgebaly	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
mmaha	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Anonymous	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

User/group to add:

Project-based Matrix Authorization Strategy

Prevent Cross Site Request Forgery exploits

#### 2.2.2.3. Create a new job for you application

1-Select the ENV Tab that you need to create your Job Under It (Ex:UAT)

2-Then select New Item from the left list



Jenkins > UAT

People

Build History

Edit View

Delete View

All Development PRD SIT **UAT** +

This view has no jobs associated with it. You can either [add some existing jobs](#) to this view or create a [new job](#) in this view.

2-write your Application name (please mention the ENV Name at the end of App name:

Ex: APPName\_DEV

If it is new Application, you can mark this option **“Build a free-style software project”**

Else if this application is currently exists you can mark **“Copy existing Item”**

Jenkins

Jenkins > UAT >

**New Item**

Item name: Your Application Name

- Build a free-style software project**  
This is the central feature of Jenkins. Jenkins will build your pro
- Build a maven2/3 project**  
Build a maven 2/3 project. Jenkins takes advantage of your PO
- Build multi-configuration project**  
Suitable for projects that need a large number of different confi
- Monitor an external job**  
This type of job allows you to record the execution of a process your existing automation system. See [the documentation for m](#)
- Copy existing Item**  
Copy from: \_\_\_\_\_

Build Queue: No builds in the queue.

Build Executor Status

#	Status	Builds

OK

#### 2.2.2.4. Configure Jenkins for your Application job

1-Double click on your job name then click on “configure” option.

2-under “Source code Management “section, Add the SVN location for your code

BBServiceStatus Config [Jenkins] - Windows Internet Explorer

http://as746-au-fal-Q2-0080/job/BBServiceStatus/configure

Jenkins > BBServiceStatus > configuration

Project name: BBServiceStatus

Description: [Escaped HTML] Preview

Discard Old Builds  
 This build is parameterized  
 Disable Build (No new builds will be executed until the project is re-enabled.)  
 Execute concurrent builds if necessary

Advanced Project Options

Source Code Management

- Subversion
- CVS
- CVS Projectset
- None

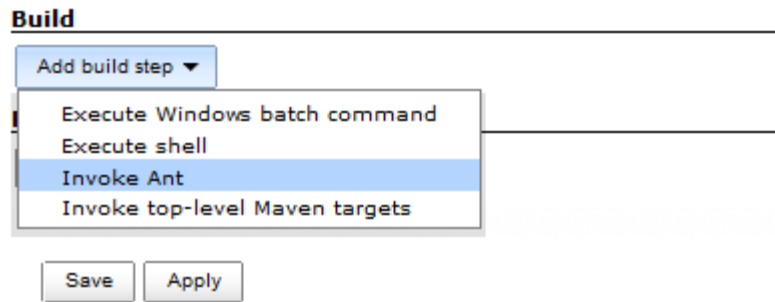
Repository URL: http://as746/svn/Middleware/Developmen /Code/

Local module directory (optional):

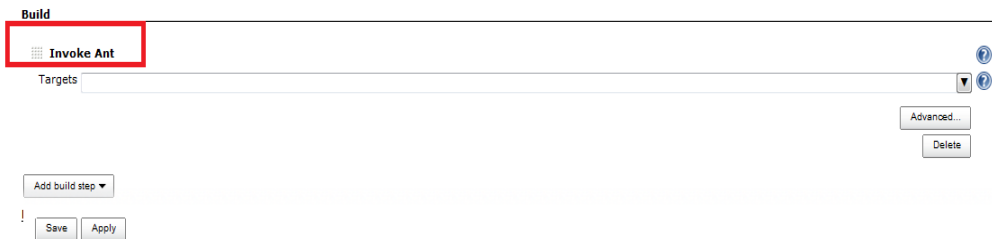
3- To Invoke the Ant script in build.xml in your job ,you need to choose Invoke Ant under the “Build Section”

As per our SVN setup all Application URL will be like the below:

http://as746/svn/Middleware/Development/<ApplicationName>/Code



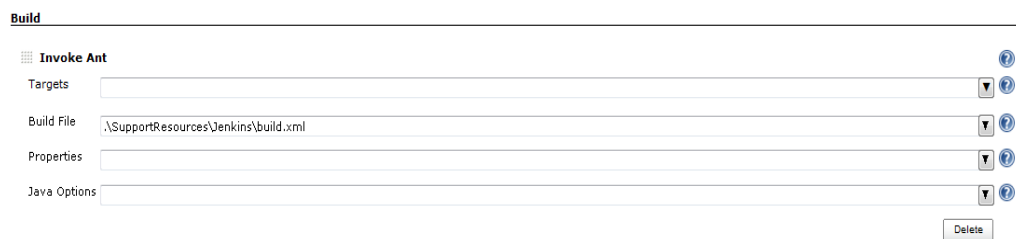
4-the default is to leave the below Target Empty ,it will Invoke by default any build.XML file inside your Code Folder if you follow the folder structure mentioned before.



-Press advanced in the build File mention build.xml location relative to the above SVN URL

-All application should share the same relative location

.\SupportResources\Jenkins\build.xml



- To Discard/truncate Failed Jobs , we can configure which status to discard from the application jobs , this will help to minimize storage used by jenkins

**Post-build Actions**

**Discard Old Builds**

Days to keep builds

Max # of builds to keep

Interval to keep old builds (by days)

Interval to keep old builds (by # of builds)

Status to discard  Success  Unstable  Failure  NotBuilt  Aborted

Min Logfile size in bytes

Max Logfile size in bytes

Regular expression

### 2.2.2.5. Execute the Automation activity for your Application

1-Select “build Now” to execute your Job

2-Anew job will be created on the” Build History “

### 2.2.2.6. Monitor the Automation status through the Console

1-To monitor the execution of your job, click on the new created job in Build History

2– Then click on the “Consol Output ” in the left list ,

You will find the log of the execution for each target mentioned in the Build.xml  
 Finally You need to make sure that Ear has been built & deployed successfully

BBSERVICESTATUS #98 Console [Jenkins] - Windows Internet Explorer  
http://as746-au-fal-02:8080/job/BBSERVICESTATUS/98/console

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BBSERVICESTATUS #98 Console [Jenkins]

Maha Hussein

# Jenkins

Jenkins > BBSERVICESTATUS > #98

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## Console Output

[Status](#)

[Changes](#)

**Console Output**

[View as plain text](#)

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**Executed Ant Targets**

- clean.tibco
- compile.tibco
- config.tibco
- init
- updateconfig
- deployEar

```
Started by user Maha Hussein
Building in workspace E:\ProgramFiles\Jenkins\workspace\BBSERVICESTATUS
Updating http://as746-au-fal-02.etisalat.corp.ae/svn/Middleware/Development/BlackberryServiceStatus/Code/BlackberryServiceStatus at revision '2014-06-08T18:38:58.080 +04'
At revision 166
no change for http://as746-au-fal-02.etisalat.corp.ae/svn/Middleware/Development/BlackberryServiceStatus/Code/BlackberryServiceStatus since the previous build
[BBSERVICESTATUS] $ cmd.exe /C "ant.bat %* exit %ERRORLEVEL%"
Buildfile: E:\ProgramFiles\Jenkins\workspace\BBSERVICESTATUS\build.xml

clean.tibco:
[delete] Deleting directory E:\ProgramFiles\Jenkins\workspace\BBSERVICESTATUS\ear
[mkdir] Created dir: E:\ProgramFiles\Jenkins\workspace\BBSERVICESTATUS\ear

compile.tibco:
[exec] Starting up...
[exec] Initiating validation...
[exec] (0) errors and (19) warnings found
[exec] Enterprise Archive File has built correctly.
[exec] Ear created in: E:\ProgramFiles\Jenkins\workspace\BBSERVICESTATUS\ear\BlackberryServiceStatus.ear

config.tibco:
[exec] Initializing ...
[exec] Finished initialization
[exec] Exporting application configuration ...
[exec] Finished exporting application
[exec] Finished successfully in 7 seconds

init:

updateconfig:
[echo] HostName
[echo] HostName.xpath = /:application/:services/:bw/:bindings/:binding/:machine/text()
[echo] HostName.value = dx518

deployEar:
[scp] Connecting to dx518:22
[scp] done.
[scp] Connecting to dx518:22
[scp] done.
[sshexec] Connecting to dx518:22
```

http://as746-au-fal-02:8080/job/BBSERVICESTATUS/98/console

Local intranet | Protected Mode: Off

### **3.References:**

[-http://www.glintech.com/blog/tibco-continuous-integration-part-1-automated-building-and-deployment](http://www.glintech.com/blog/tibco-continuous-integration-part-1-automated-building-and-deployment)

[-http://ant.apache.org/manual/using.html](http://ant.apache.org/manual/using.html)

[-http://stackoverflow.com/questions/14950408/how-to-install-a-plugin-in-jenkins-manually](http://stackoverflow.com/questions/14950408/how-to-install-a-plugin-in-jenkins-manually)