WEB-LOGIC

Type   ------------- Application server software
Vendor   ------------- BEA system/Oracle corporation
Default port no   ------------- 7001(commercial software)
Version   ------------- 12c(compatible with jdk 1.7)
Allow to create domains each domain act as 1 application server
No default domains
To open admin console : http:localhost:7001/console
To download software :www.commerce.bea.com or www.oracle.com

=>if multiple project are using weblogic then weblogic software will installed only for one time in common computer,but multiple domains will be created for multiple projects on 1 per project basis.Every domain is one instance of weblogic acting as application server.

Procedure to create user defined domain server in weblogic 12c.
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Start Button ->All Apps ->Oracle ->Oracle Home ->Web Logic Server
->configuration wizard ->base domain(FirstDomain) ->next ->next ->next
->choose username(weblogic) and password(weblogic) ->next
->mode :development ->next ->[v]administration server ->next ->port no
->7080 ->next ->create

Procedure to perform console deployment of web application of Oracle weblogic domain servers:
a)Prepare war file
     RegistrationApp.war
b)start domain server of weblogic
   <oracle weblogic_home>\user-project\domain\FirstDomain\start
     weblogic.cmd
c)Open the admin console of weblogic domain server
   http://localhost:7080/console
   username   : weblogic
   password   : weblogic
    ->click login button.

d)Deploy the web application

Admin console screen ->deployment ->install ->upload your files
->deployment archive ->select RegistrationApp.war ->next ->next ->next
->next ->finish ->save

e)Test the application

Testing tab   ------->select the url

To underplayed the web application form admin console
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Admin console ->deployments ->select **RegistrationApp.war** ->delete

=>To perform hard deployment of web application in weblogic server,copy war file or directory to **<oracle weblogic_home>\user-project\domains\FirstDomain\ Autodeploy folder**.This application can't be undeployed from admin console.

=>In weblogic server the modification done in the source code of servlet component will be reflected without recompilation of servlet component and without reloading the web application.

=>Java web application are server independent and deployable in all servers ,this
Makes java web applications as **WODA**(write once Deploy any time) application.

Here Servlet component does not use directly created JDBC connection object.its use the JDBC connection object that is gathered from JDBC connection pool.

Sample code to connection object from JDBC connection pool
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```
//establish the connection with jndi registry
    InitialContext ic = new InitialContext();

//get data source object reference from jndi registry
    DataSource ds = (DataSource)ic.lookUp("DsJndi");

//get JDBC connection object from JDBC connection pool
    Connection con = ds.getConnection();
```

Procedure to create DataSource object representing JDBC connection pool for oracle in WebLogic Server

1.start domain server and open admin console

2.create JDBC data source pointing to JDBC connection pool for oracle

   Admin console -> services -> DataSource -> new Generic data source

   -> logical name :ds1 -> jndi name :DsJndi -> next

   -> JDBC driver :Oracle thin driver for service connections -> next -> next

   -> data base name :orcl -> host name :localhost -> database user :system

   -> password : oracle -> confirm password : oracle -> next -> test configuration

   -> next -> select [admin server] -> finish

  =>The moment we press finish button the datasource object will be created
     Representing JDBC connection pool and that Data source object will be placed
     built-in server managed **JNDI registry.**

3.specify the JDBC Connection Pool properties.

   Admin console screen -> services -> data source -> launch ds1

  -> connection pool tab -> initial capacity=10 ->maximum capacity=100

  ->minimum capacity=2 -> save -> advanced -> shrink frequency=1000 ->save