

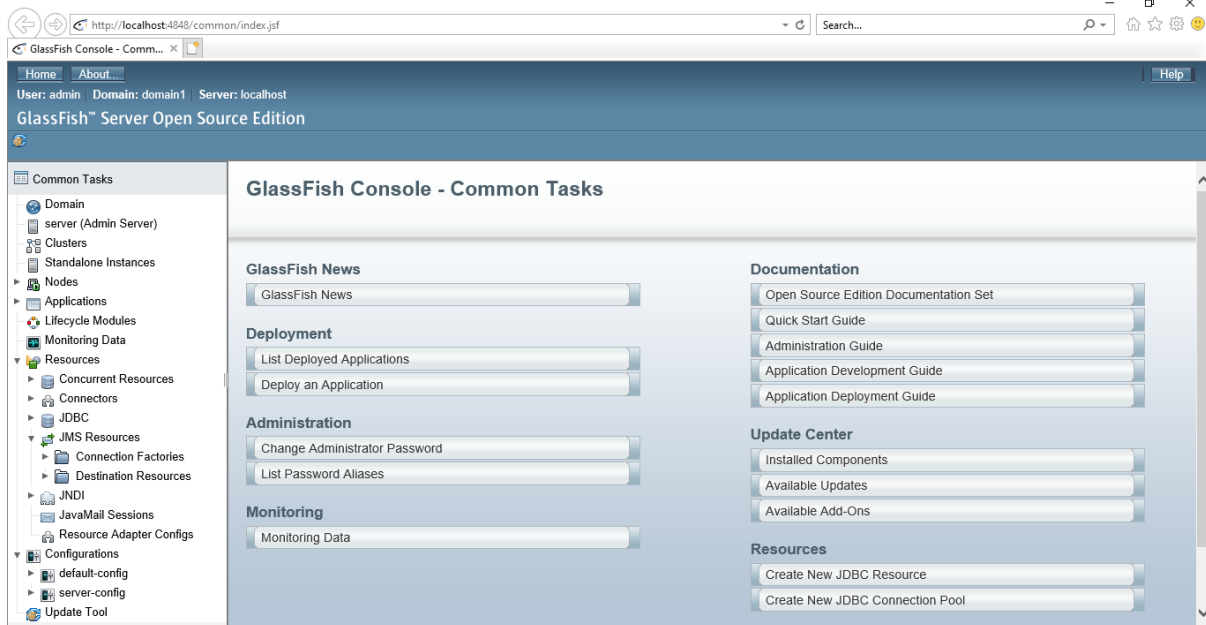
Demonstrate a program on message bean

➔ Start Glasfish Server under Services Tab

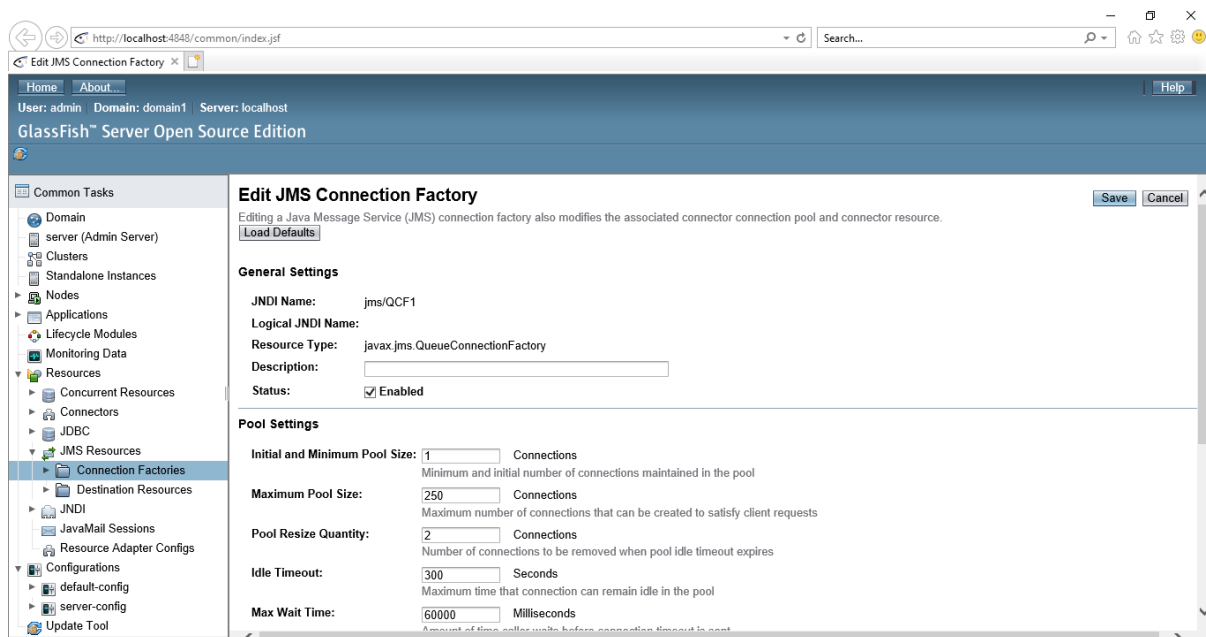
- Right click on GlasFish Server 4.1.1
- Click on Start

➔ Creating Queue and Destination

- Right click on GlasFish Server 4.1.1
- Click on View Domain Admin Console



Click on JMS Resources ➔ Connection Factories ➔ New



Click on OK

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Click on JMS Resources → Destination Factories → New

Click on OK

Under Netbeans → New Project → Java EE → Enterprise Application → Project Name (Message Bean)

Right click on EJB Project Module (MessageBean-ejb) → Message Driven Bean → Finish

NewMessageBean.java

```
package MessageBeans;

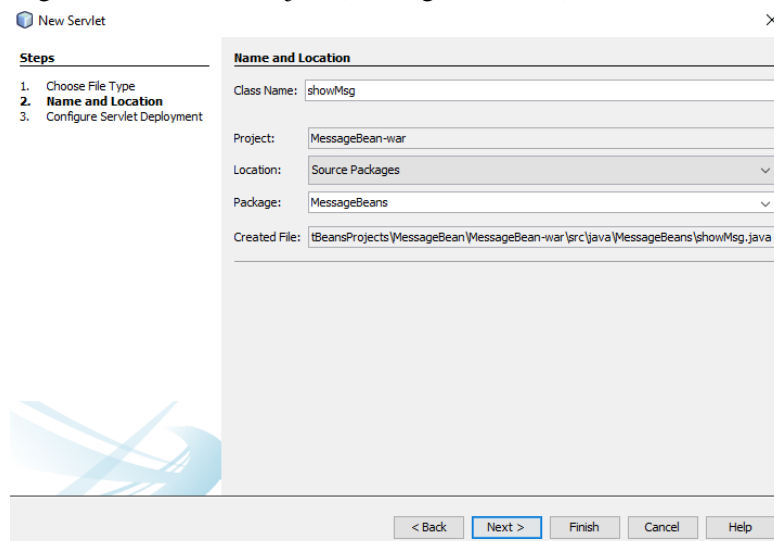
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.ejb.ActivationConfigProperty;
import javax.ejb.MessageDriven;
import javax.jms.JMSEException;
import javax.jms.Message;
import javax.jms.MessageListener;
import javax.jms.TextMessage;

/**
 *
 * @author TechnoBoy
 */
@MessageDriven(activationConfig = {
    @ActivationConfigProperty(propertyName = "destinationLookup", propertyValue =
"jms/QCF1Dest"),
    @ActivationConfigProperty(propertyName = "destinationType", propertyValue =
"javax.jms.Queue")
})
public class NewMessageBean implements MessageListener {

    public NewMessageBean() {
    }

    @Override
    public void onMessage(Message message) {
        try {
            TextMessage msg=(TextMessage) message;
            System.out.println("Welcome to Message Bean, "+msg.getText());
        } catch (JMSEException ex) {
            Logger.getLogger(NewMessageBean.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}
```

Right click on Web Project (MessageBean-war) → New → Servlet → Class Name: showMsg



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showMsg.java

```
package MessageBeans;

import java.io.IOException;
import java.io.PrintWriter;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.annotation.Resource;
import javax.inject.Inject;
import javax.jms.Connection;
import javax.jms.ConnectionFactory;
import javax.jms.JMSConnectionFactory;
import javax.jms.JMSContext;
import javax.jms.JMSException;
import javax.jms.MessageProducer;
import javax.jms.Queue;
import javax.jms.Session;
import javax.jms.TextMessage;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 *
 * @author TechnoBoy
 */
public class showMsg extends HttpServlet {

    @Resource(mappedName = "jms/QCF1Dest")
    private Queue qCF1Dest;

    @Resource(mappedName = "jms/QCF1")
    private ConnectionFactory queue;

    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet showMsg</title>");
            out.println("</head>");
            out.println("<body>");
            String messageData=request.getParameter("name");
            sendJMSMessageToQCF1Dest(messageData);
            out.println("<h1>Name is Queued</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

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```
private void sendJMSMessageToQCF1Dest(String messageData) {
    try {
        Connection con=queue.createConnection();
        Session s = con.createSession();
        MessageProducer mp=s.createProducer(qCF1Dest);
        TextMessage tm=s.createTextMessage();
        tm.setText(messageData);
        mp.send(tm);

    } catch (JMSEException ex) {
        Logger.getLogger(showMsg.class.getName()).log(Level.SEVERE, null, ex);
    }
}
```

MessageBean-war → New → JSP → File Name(*newjsp.jsp*)

newjsp.jsp

<%--

Document : newjsp

Created on : 20 Oct, 2019, 8:05:26 PM

Author : TechnoBoy

--%>

<% @page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>Message Bean</title>

</head>

<body>

<form action="showMsg">

<input type="text" name="name">

<input type="submit" value="send">

</form>

</body>

</html>

Output:

Deploy MessageBean-ejb

Run MessageBean-war → newjsp.jsp

