

Prog2, Java EE bevezetés

Magasszintű programozási nyelvek 2 mérnök informatikus BSc előadás

Dr. Bátfai Norbert

egyetemi adjunktus

<http://www.inf.unideb.hu/~nbatfai/>

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Prog2_5.ppt, v.: 0.0.7, 2011. 12. 08.

<http://www.inf.unideb.hu/~nbatfai/>

<http://nehogy.fw.hu/>

Az óra blogja: <http://progater.blog.hu/>

A Nokia Ovi store-ban is elérhető: <http://store.ovi.com/content/100794>

Felhasználási engedély

Bátfai Norbert

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Címlap szövegek: Programozó Páternoszter, Bátfai Norbert, Gép melletti fogyasztásra.

Hátlap szövegek: GNU Jávácska, belépés a gépek mesés birodalmába.

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Kapcsoldó videók, videómagyarázatok és blogok

1) Drupalosok, joomlasok erre csorogtják a nyálukat:

http://progpater.blog.hu/2011/04/29/drupalosoknak_joomlasok_csorogtjak_a_nyalukat

2) left over from the era of closed standards and unilateral corporate control of web technology*:

http://progpater.blog.hu/2011/11/19/left_over_from_the_era_of_closed_standards_and_unilateral_corporate_control_of_web_technology

3) Ó, mondd, te kit választanál?* GlassFish fürt, JBoss, Geronimo, Tomcat...:

http://progpater.blog.hu/2011/11/28/o_mondd_te_kit_valasztanal_2013

Az előadás és a labor posztja ez(ek)

Célok és tartalom

Előadás

- a) Java EE 6, EJB 3.1
- b) Java EE alkalmazáserver-fürtök

Labor

- a) GlassFish, JBoss, Apache Geronimo
- b) Apache és GlassFish, terhelés elosztás

Laborkártyák

- a) EE kártyák

Otthoni opcionális feladat

- a) Saját Atan alapú RCSS csapat fejlesztése, Junit tesztek

Minimális gyakorlati cél

- a) A hallgató tudjon delpoyolni egy vállalati alkalmazást.
- b) A hallgató tudjon Junit tesztekot írni saját projektjéhez.

Minimális elméleti cél

- 1) A hallgató koncepcionális szinten be tudja mutatni a Java EE 6 platformot. (A feleletet érdemes a 10 fólia ábrája alapján felépíteni és egy konkrét példát, például az adatforráson keresztül dolgozó korábbi szervletet részletezni.)

Java EE – válasz az új kihívásokra

*„A Java EE egyébként olyan – mennyiségiből minőségibe átcsapó – kérdésekre tud értelmes válaszokat adni, hogy mi van, ha a programom népszerű lesz és egy időben 20.000 ember akarja majd használni? És idővel még sikeresebb lesz és egyszerre, már tízszer annyi, 200.000 felhasználó akarja majd használni és kis idő múlva pedig már 2.000.000 és így tovább! ... „**

Egy „klasszikusan” (a Java civilizáció előtt) képzett programozó nem is tudja értelmezni, értelmezési tartományon kívülinek tartja a kérdést.

*: Bاتفai Norbert: Nehogy már a mobilod nyomkodjon Téged! A programozás egy szellemi sport: ismerd meg te is az alaplépéseket! Debrecen : DEENK, 2008. (ISBN: 9789634730941, 98 p.: ill., 24 cm)

Java EE 6, EJB 3.1

The Java EE 6 Tutorial

<http://download.oracle.com/javaee/6/tutorial/doc/>

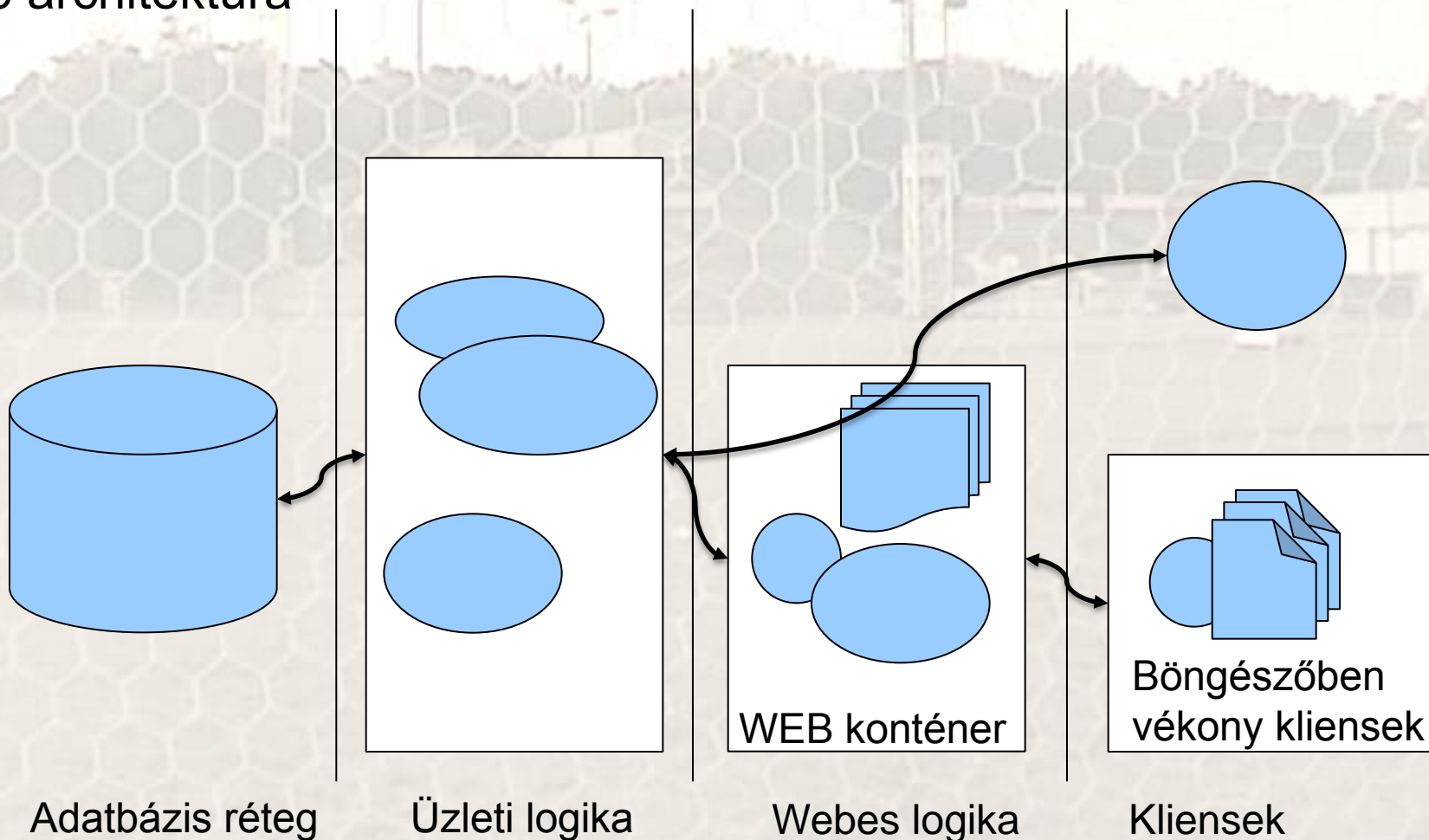
<http://download.oracle.com/javaee/6/tutorial/doc/javaeetutorial6.pdf>

(906 oldal)

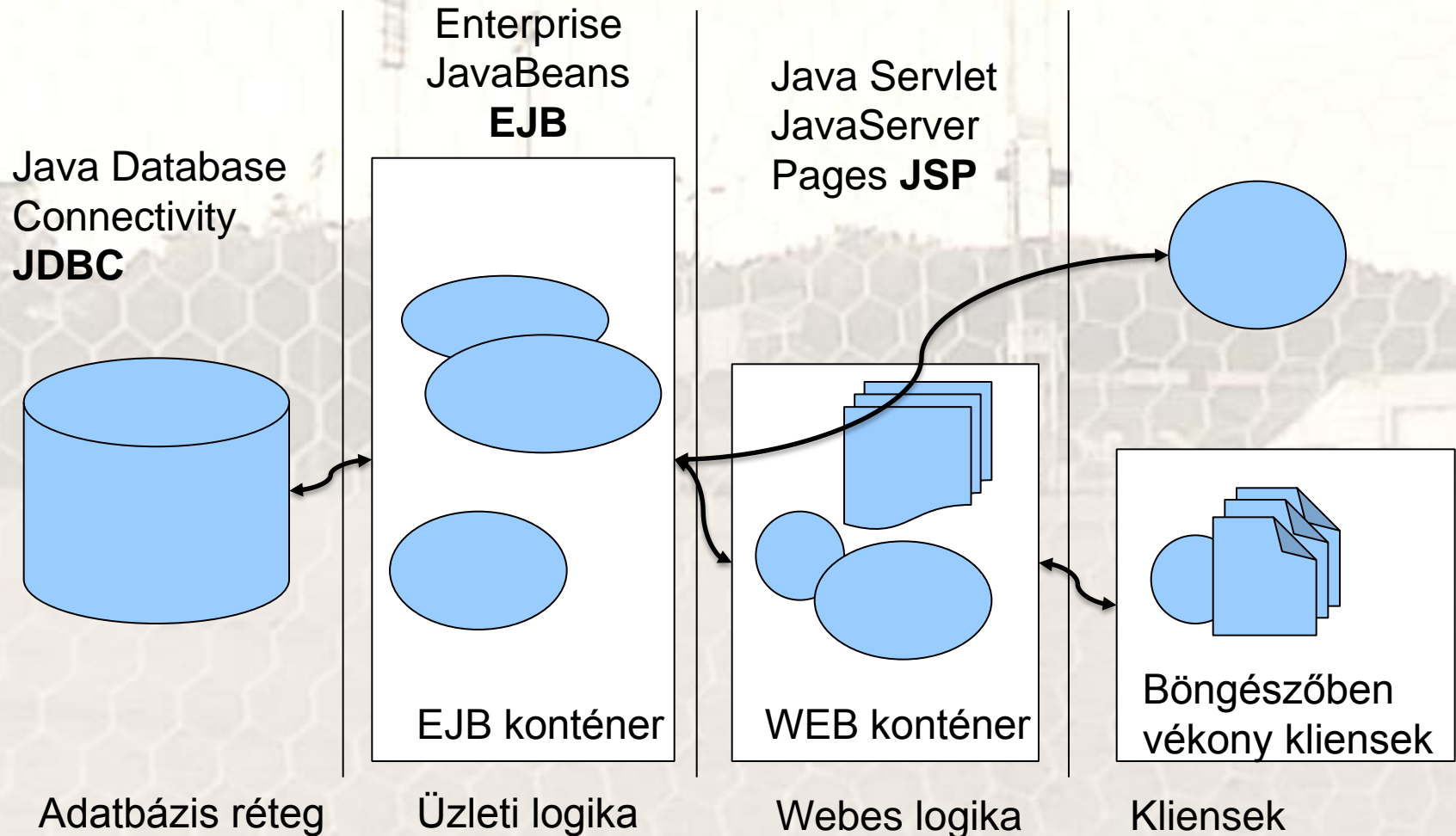
Szabványok és olyan alkalmazásmodell, amiben az iménti kérdés kezelhető.

Ism.: Alkalmazás architektúrák

- Kliens-szerver modell
- 3 rétegű alkalmazások
- p2p architektúra



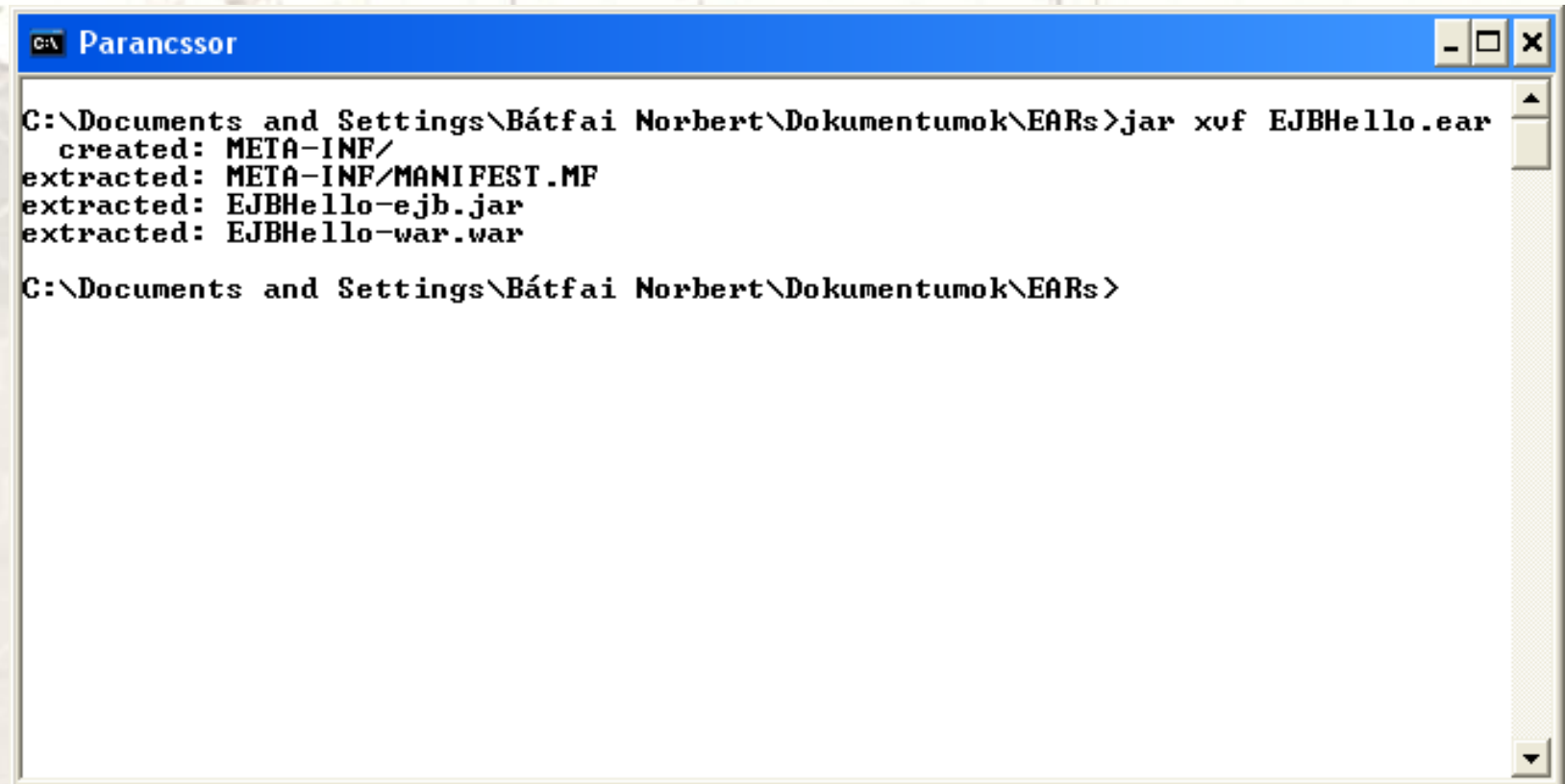
Ism.: Java EE API-k



(Java Naming and Directory **JNDI**)

Java EE vállalati alkalmazások

Enterprise Application Archive, EAR
Deployment



```
C:\ Parancssor
C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>jar xvf EJBHello.ear
  created: META-INF/
extracted: META-INF/MANIFEST.MF
extracted: EJBHello-ejb.jar
extracted: EJBHello-war.war

C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>
```

C:\ Parancssor

```
C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>jar xvf EJBHello-ejb.jar
created: META-INF/
extracted: META-INF/MANIFEST.MF
created: elso/
extracted: .netbeans_automatic_build
extracted: elso/EHelloBean.class
extracted: elso/EHelloRemote.class

C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>_
```

C:\ Parancssor

```
C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>jar xvf EJBHello-war.war
created: META-INF/
extracted: META-INF/MANIFEST.MF
created: WEB-INF/
created: WEB-INF/classes/
extracted: WEB-INF/classes/.netbeans_automatic_build
extracted: WEB-INF/classes/EHelloServlet.class
extracted: WEB-INF/sun-web.xml
extracted: WEB-INF/web.xml
extracted: index.jsp

C:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs>_
```

Ism.: Java Servlet, web.xml

```
<?xml version="1.0" encoding="ISO-8859-1"?>
```

```
<web-app xmlns="http://java.sun.com/xml/ns/javaee"  
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"  
  xsi:schemaLocation="http://java.sun.com/xml/ns/javaee  
    http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd"  
  version="3.0">
```

```
<resource-ref>
```

```
<description>
```

```
  A ProgPater-e
```

```
</description>
```

```
<res-ref-name>jc
```

```
<res-type>javax
```

```
<res-auth>Conta
```

```
</resource-ref>
```

```
<display-name>ProgPater pelda</display-name>
```

```
<description>
```

```
  ProgPater pelda: visszajelzesek listazasa, felvitele.
```

```
</description>
```

```
<servlet>
```

```
  <servlet-name>visszajelzesek</servlet-name>
```

```
  <description>
```

```
    Visszajelzesek listazasa
```

```
  </description>
```

```
  <servlet-class>VisszajelzesekSzervlet</servlet-class>
```

```
</servlet>
```

```
<servlet-mapping>
```

```
  <servlet-name>visszajelzesek</servlet-name>
```

```
  <url-pattern>/lista</url-pattern>
```

```
</servlet-mapping>
```

```
</web-app>
```

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app version="2.5"
xmlns="http://java.sun.com/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
    xsi:schemaLocation="http://java.sun.com/xml/ns/javaee
http://java.sun.com/xml/ns/javaee/web-app_2_5.xsd">
  <istributable/>
  <servlet>
    <servlet-name>EHelloServlet</servlet-name>
    <servlet-class>EHelloServlet</servlet-class>
  </servlet>
  <servlet-mapping>
    <servlet-name>EHelloServlet</servlet-name>
    <url-pattern>/EHS</url-pattern>
  </servlet-mapping>
  <session-config>
    <session-timeout>
      30
    </session-timeout>
  </session-config>
</web-app>
```

GlassFish - Open Source Application Server

<http://glassfish.java.net/>

GlassFish Server **Open Source Edition**

- Free community-supported application server
- Full Java EE 6 platform support
- The best open source application server in the industry today
- Next-generation modular and extensible architecture (OSGi)
- Enterprise reliability and performance with full clustering



Download GlassFish Server
Open Source Edition 3.1.1

Oracle GlassFish Server

- Supported GlassFish Server distribution
- Includes Open Source Edition & GlassFish Server Control
- Active Cache for GlassFish - Native integration with Oracle Coherence*Web
- Available for evaluation via OTN license
- Requires a license for production use



Download Oracle
GlassFish Server 3.1.1

[Learn More About Oracle GlassFish Server](#)

V2

V3

https://glassfish.dev.java.net/public/comparing_v2_and_v3.html

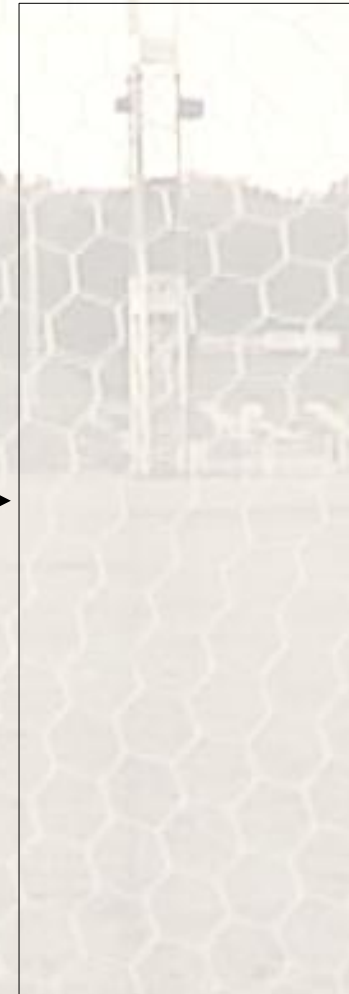
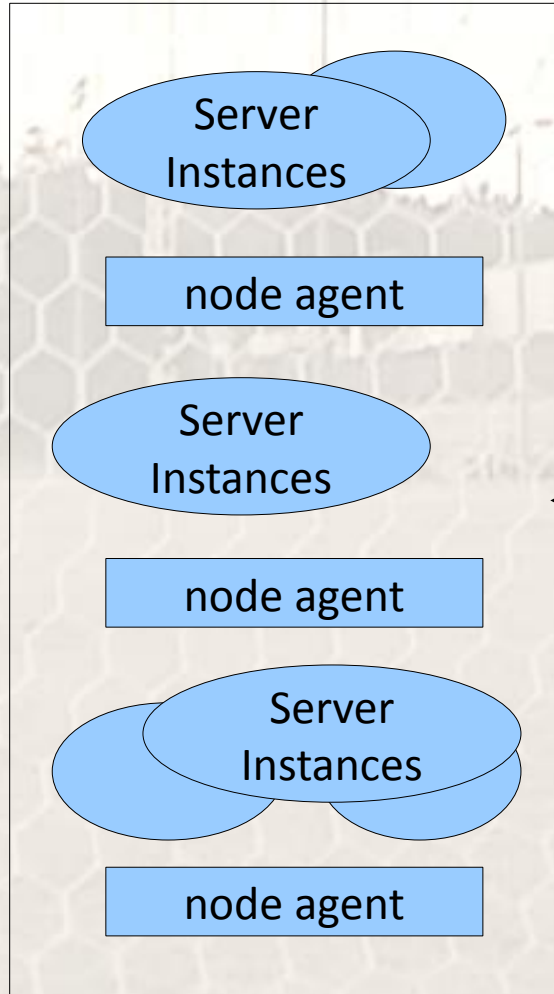
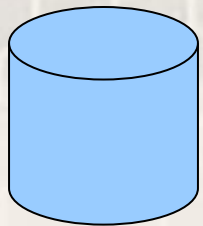
Licenc: CDDL, GNU GPL v2

Feature	GlassFish version 2.1.x	GlassFish version 3.0.x
Java Platform, Enterprise Edition		
Java Compatible, Enterprise Edition (Java EE) Certified	Java EE 5 certified	Java EE 6 certified [2]
Web Application Technologies		
Java DB, JDBC Connection Pooling	Java DB 10.4.2.1	Java DB 10.5.3.0
JTA 1.1/JTS 1.0	X	X
J2EE Connector Architecture	Connectors 1.5	Connectors 1.6
Enterprise JavaBeans (EJB)	EJB 3.0	EJB 3.1
JMS 1.1	X	X
Java Persistence API (JPA)	JPA 1.0 (TopLink)	JPA 2.0 (EclipseLink)

Fürtözés

Fürt

Terhelés elosztás



Kliensek

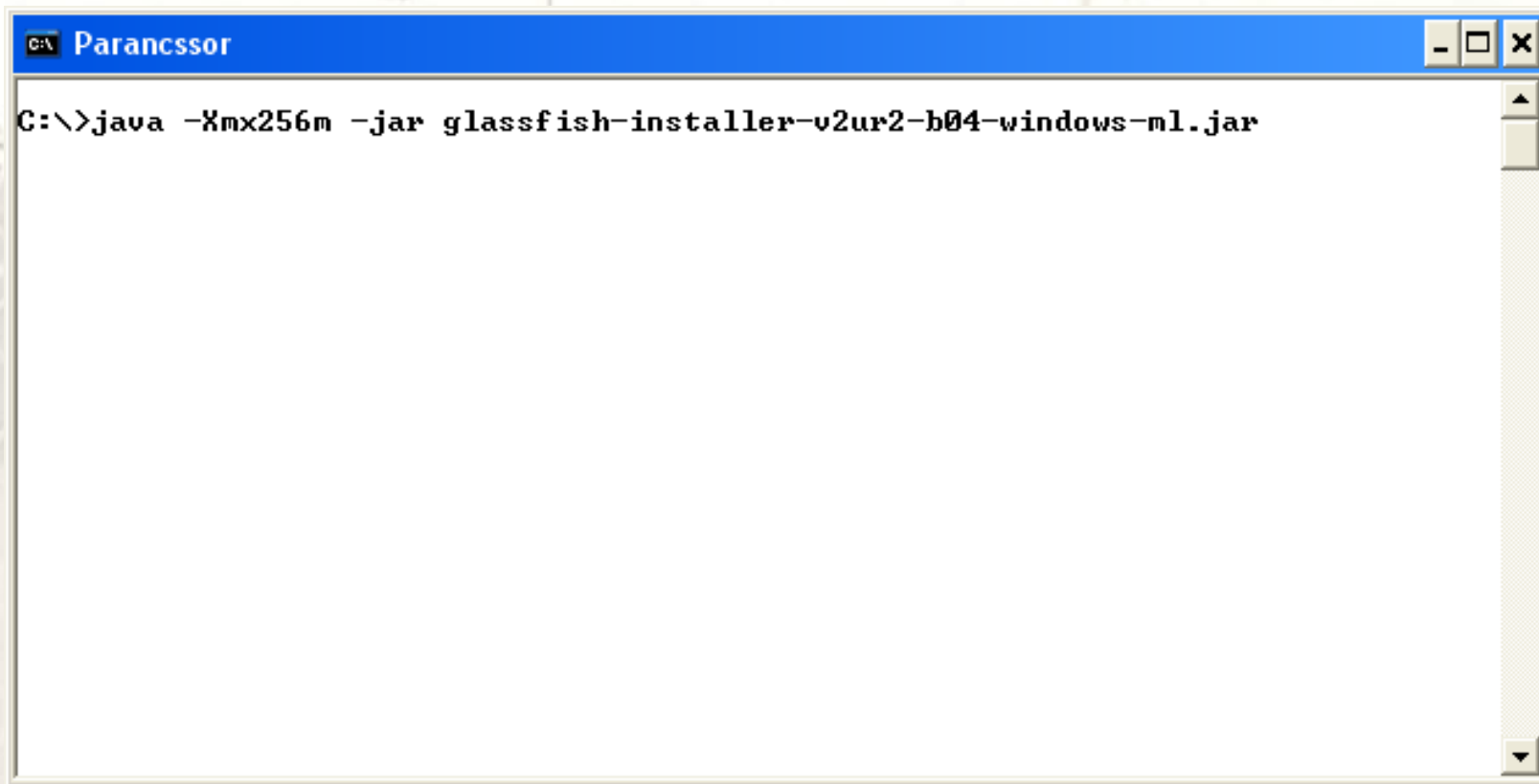
Fürtözés

A következő két példa:

- két fizikailag különböző gép alkotta két szerver példányos fürt
- egyetlen gépen kialakított két szerver példányos fürt

Két gépes fürt – glassfish install, kicsomagolás

<https://glassfish.dev.java.net/>



```
C:\>java -Xmx256m -jar glassfish-installer-v2ur2-b04-windows-m1.jar
```

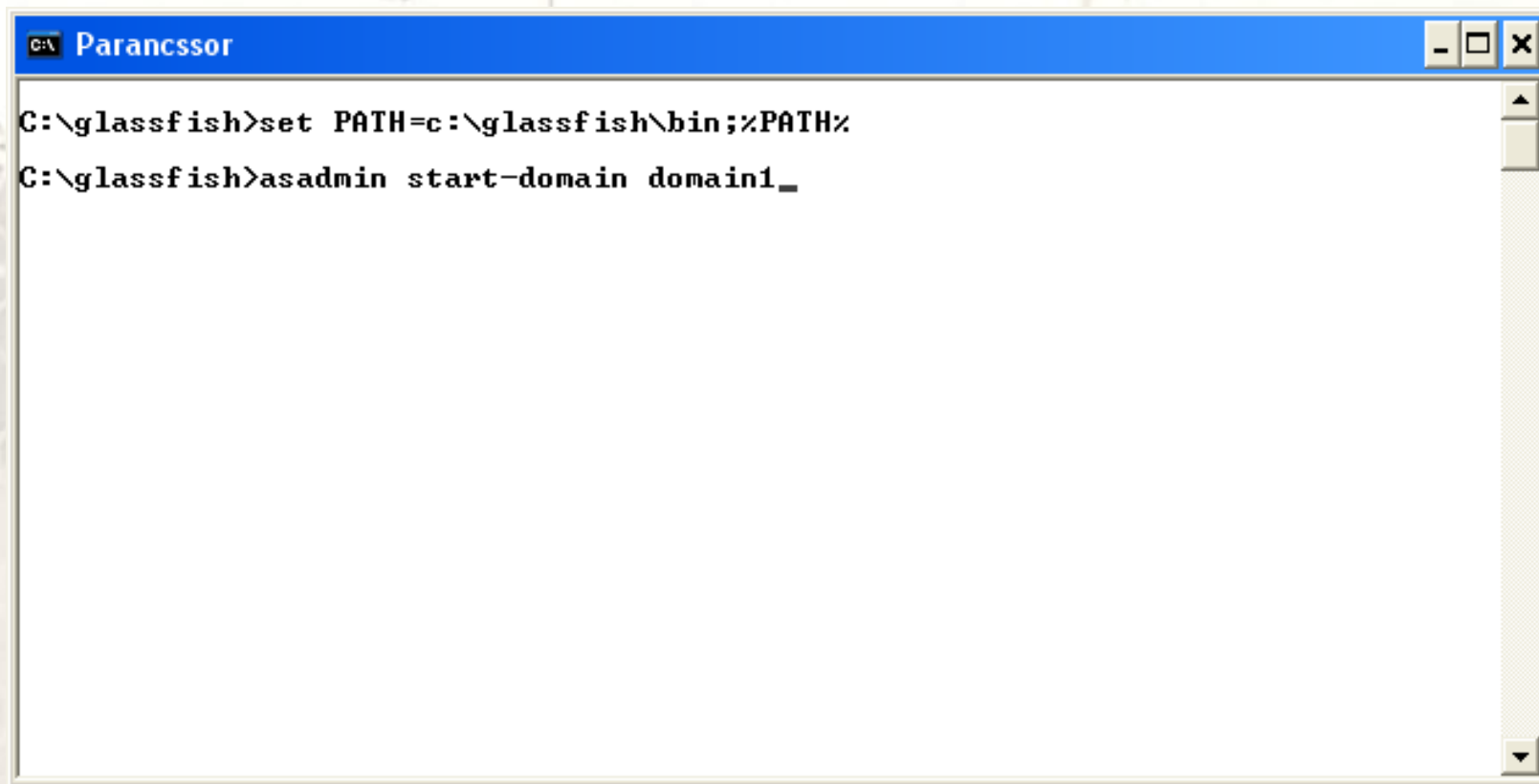
https://glassfish.dev.java.net/javaee5/build/GlassFish_LB_Cluster.html

Két gépes fürt – glassfish konfigurálás módjában

```
Parancssor
glassfish\updatecenter\lib\jdk\sunos\x86\libjdkic.so
glassfish\updatecenter\lib\jdk\sunos\x86\libmozembed-solaris-gtk2.so
glassfish\updatecenter\lib\jdk\sunos\x86\libtray.so
glassfish\updatecenter\lib\jdk\sunos\x86\mozembed-solaris-gtk2
glassfish\updatecenter\lib\jdk\windows\jdkic_stub.jar
glassfish\updatecenter\lib\jdk\windows\x86\IeEmbed.exe
glassfish\updatecenter\lib\jdk\windows\x86\jdkic.dll
glassfish\updatecenter\lib\jdk\windows\x86\MozEmbed.exe
glassfish\updatecenter\lib\jdk\windows\x86\tray.dll
glassfish\updatecenter\lib\jhall.jar
glassfish\updatecenter\lib\schema2beans.jar
glassfish\updatecenter\lib\schema2beansdev.jar
glassfish\updatecenter\lib\swing-layout-1.0.1.jar
glassfish\updatecenter\lib\updatecenter-gui.jar
glassfish\updatecenter\lib\updatecenter-installer.jar
glassfish\updatecenter\lib\updatecenter-javahelp.jar
glassfish\updatecenter\lib\updatecenter.jar
glassfish\updatecenter\LICENSE.txt
glassfish\updatecenter\README
glassfish\updatecenter\registry\SYSTEM\local.xml
installation complete

C:\>cd glassfish
C:\glassfish>lib\ant\bin\ant -f setup-cluster.xml_
```

Két gépes fürt – glassfish indítás



```
C:\ Parancssor
C:\>set PATH=c:\glassfish\bin;%PATH%
C:\>asadmin start-domain domain1_
```

Sun Java System Application Server - Server Running - Mozilla Firefox

Áll Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:8080/

Google

Fiókom Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

sun.com

Sun Java System Application Server 9.1_02 (build b04-fcs)

Your Application Server is now running

To replace this page, overwrite the file `index.html` in the document root folder of this domain's default virtual server. The document root folder of the domain `domain1` is located at `install-dir/defaults/domain1/docroot`, where `install-dir` is the Application Server installation directory.

Register the Application Server with Sun Connection now

Use the Admin Console to register the Application Server with [Sun Connection](#) now. Registration is optional, but as a registered user you receive benefits such as:

- Patch information and bug updates
- Screencasts and tutorials
- News and events
- Support and training offerings

Két gépes fürt – megy a szerver?

Get a Sun Java System Application Server subscription

To benefit from powerful support for the commercial counterpart to GlassFish, the Sun Java™ System Application Server, consider a [Java System Application Server Subscription](#). This subscription provides a one-stop shop for products and services with immediate web access to software support with full indemnification, updates and upgrades, production and code support, training, and much more.

Install and update additional software components

Use the [Update Center](#) to install and update additional technologies and frameworks such as [Open ESB](#), [jMaki](#), and [JRuby](#). To improve the user experience and optimize offerings to users, Sun collects data about [GlassFish usage](#) that is transmitted by the Update Center installer client as part of the automatic update processes. No personally identifiable information is collected by this process.

Join the GlassFish community

Visit the [GlassFish Community](#) page for information about how to join the GlassFish community. The GlassFish community is developing a free, open source, production-quality, enterprise-class application server that implements the newest features of the Java™ Platform, Enterprise Edition (Java EE) 5 platform and related enterprise technologies.

Learn more about the Application Server

For more information about the Application Server, samples, documentation, and additional resources, see `install-dir/docs/about.html`, where `install-dir` is the Application Server installation directory.

[Company Info](#) | [Contact](#) | Copyright 2008 Sun Microsystems

Az iam043.inf.unideb.hu gépen

Firefox browser window showing the URL `http://localhost:4848/login.jsf`. The browser interface includes the address bar, navigation buttons (Vissza, Előre, Frissítés, Leállítás, Kezdőlap), and a search bar with Google. The browser tabs show "Fiókomb", "Levelezés :: Üdvözlő...", "minix: Main Page", "Neptun - Login", "DE IK Hallgatói Fórum...", and "Bátfai Norbert".

Két gépes fürt - <http://localhost:4848>

Sun Java™ System Application Server Admin Console

User Name:

Password:

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Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Éjl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/ Google

Fiókam Levelezés :: Üdvözlő... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Home Version Logout Help

User: admin Domain: dornain Server: localhost

Sun Java™ System Application Server Admin Console

Common Tasks

- Registration
- Domain
- Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
- Web Services
- JBIC
 - Service Assemblies
 - Components
 - Shared Libraries
- Custom MBeans
- Resources
- Clusters
- Stand-Alone Instances
- HTTP Load Balancers
- Node Agents
- Configurations

Két gépes fürt – az admin felület

Common Tasks

Registration and Support

- Registration
- Subscriptions

Enterprise Tasks

- Create New Cluster
- Create New Stand-Alone Instance
- View Clusters
- View Stand-Alone Instances

Deployment

- Deploy Enterprise Application (.ear)
- Deploy Web Application (.war)
- Deploy Custom MBean
- Deploy Java Business Integration (JBI) Service Assembly

Monitoring

Update Center

- Getting Started Guide
- 20 New Component(s) Available

Other Tasks

- Search Log Files
- Create New JDBC Connection Pool
- View Web Services

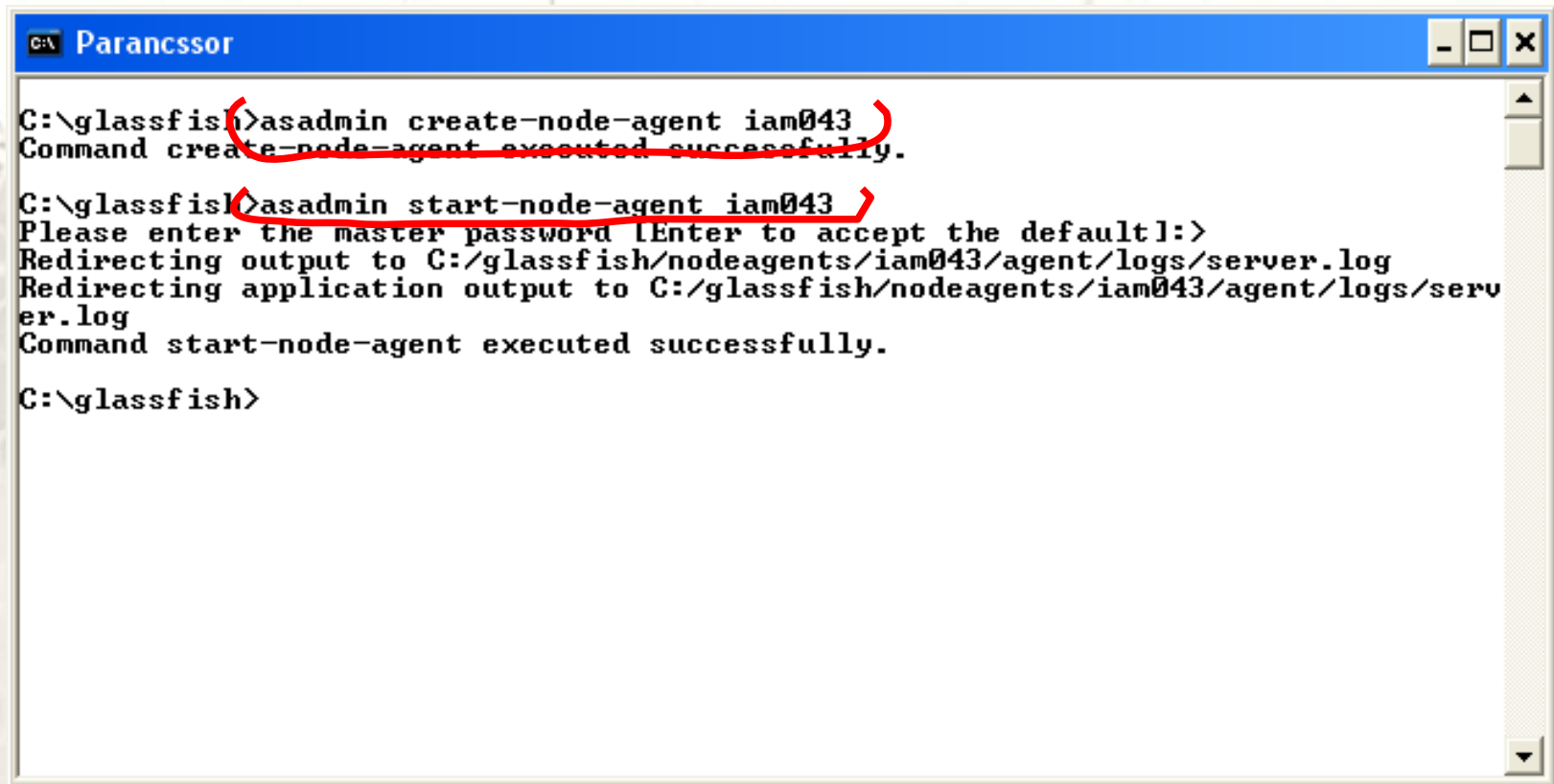
documentation

- Quick Start Guide
- Administration Guide
- Developer's Guide
- Application Deployment Guide
- Deployment Planning Guide

New GlassFish Admin Training
Learn how to install, configure & administer GlassFish with downloadable labs! [Get It](#)

- Outside the U.S., please purchase WMTB-SAS-1600 from your Sun country training Web site.
- Learn from the Source: Expert-to-engineer web training for Java EE 5.
 - Join the Project GlassFish
 - Stay current with GlassFish news at The Aquarium or learn about GlassFish deployments.
 - Get user community support, Developer Expert Assistance or production support.
 - Check the documentation.

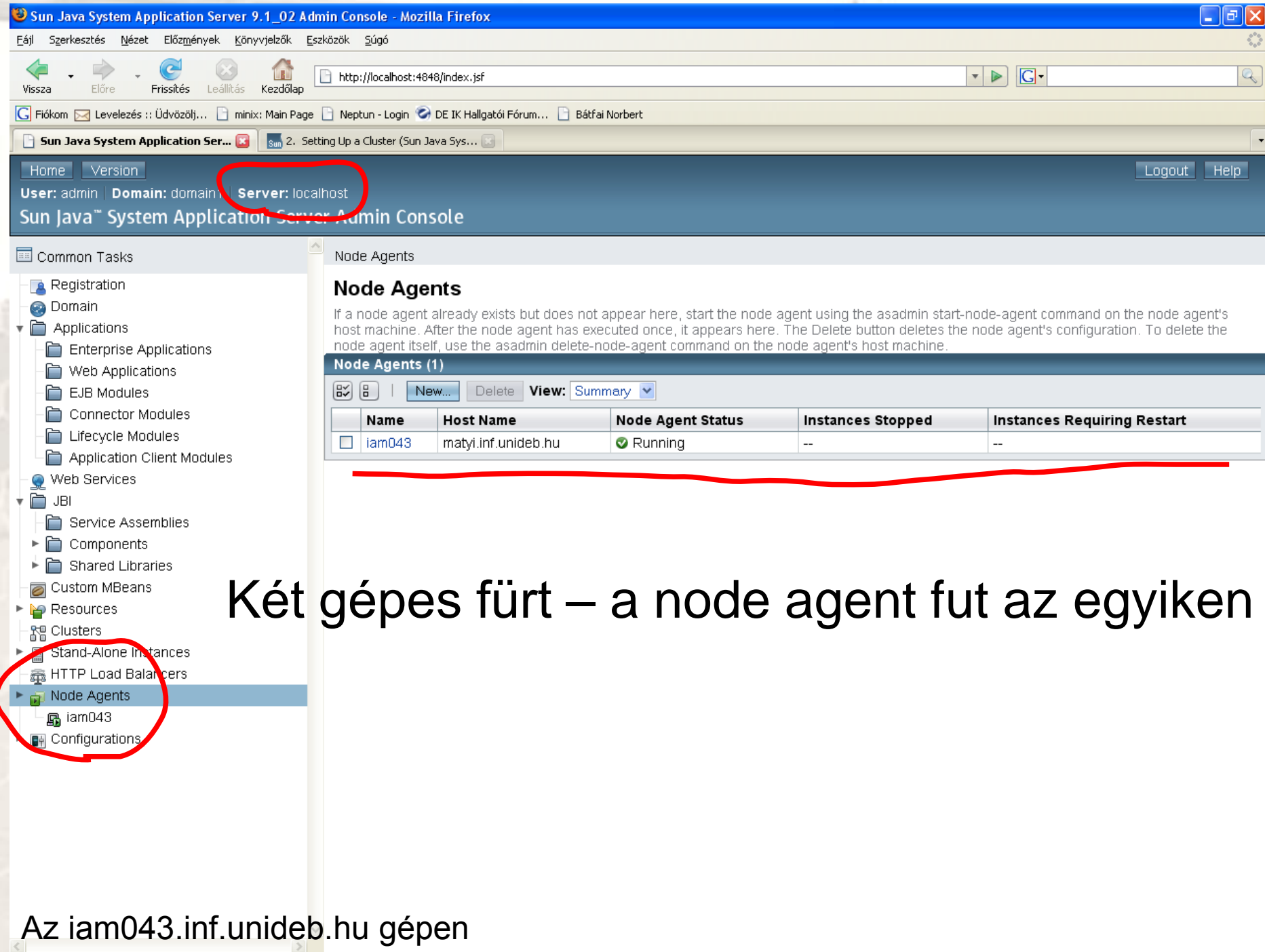
Két gépes fürt – node agent létrehozás, indítás



```
C:\> Parancssor
C:\> asadmin create-node-agent iam043
Command create-node-agent executed successfully.

C:\> asadmin start-node-agent iam043
Please enter the master password [Enter to accept the default]:>
Redirecting output to C:/glassfish/nodeagents/iam043/agent/logs/server.log
Redirecting application output to C:/glassfish/nodeagents/iam043/agent/logs/server.log
Command start-node-agent executed successfully.

C:\> glassfish>
```



Common Tasks

- Registration
- Domain
- Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
- Web Services
- JBI
 - Service Assemblies
 - Components
 - Shared Libraries
- Custom MBeans
- Resources
- Clusters
 - Stand-Alone Instances
 - HTTP Load Balancers
 - Node Agents**
 - iam043
- Configurations

Node Agents

Node Agents

If a node agent already exists but does not appear here, start the node agent using the `asadmin start-node-agent` command on the node agent's host machine. After the node agent has executed once, it appears here. The Delete button deletes the node agent's configuration. To delete the node agent itself, use the `asadmin delete-node-agent` command on the node agent's host machine.

Node Agents (1)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="button" value="New..."/>	<input type="button" value="Delete"/>	View: <input type="button" value="Summary"/>	
	Name	Host Name	Node Agent Status	Instances Stopped	Instances Requiring Restart
<input type="checkbox"/>	iam043	matyi.inf.unideb.hu	Running	--	--

Két gépes fürt – a node agent fut az egyiken

Az iam043.inf.unideb.hu gépen

Két gépes fürt – ugyanez a másik gépen

```
Parancssor
glassfish\updatecenter\lib\jdkic\sunos\x86\libjdkic.so
glassfish\updatecenter\lib\jdkic\sunos\x86\libmozembed-solaris-gtk2.so
glassfish\updatecenter\lib\jdkic\sunos\x86\libtray.so
glassfish\updatecenter\lib\jdkic\sunos\x86\mozembed-solaris-gtk2
glassfish\updatecenter\lib\jdkic\windows\jdkic_stub.jar
glassfish\updatecenter\lib\jdkic\windows\x86\TeEmbed.exe
glassfish\updatecenter\lib\jdkic\windows\x86\jdkic.dll
glassfish\updatecenter\lib\jdkic\windows\x86\MozEmbed.exe
glassfish\updatecenter\lib\jdkic\windows\x86\tray.dll
glassfish\updatecenter\lib\jhall.jar
glassfish\updatecenter\lib\schema2beans.jar
glassfish\updatecenter\lib\schema2beansdev.jar
glassfish\updatecenter\lib\swing-layout-1.0.1.jar
glassfish\updatecenter\lib\updatecenter-gui.jar
glassfish\updatecenter\lib\updatecenter-installer.jar
glassfish\updatecenter\lib\updatecenter-javahelp.jar
glassfish\updatecenter\lib\updatecenter.jar
glassfish\updatecenter\LICENSE.txt
glassfish\updatecenter\README
glassfish\updatecenter\registry\SYSTEM\local.xml
installation complete

C:\>cd glassfish
C:\glassfish>lib\ant\bin\ant -f setup-cluster.xml
```

games

Sun Java™ System Application Server Admin Console

User Name: Password:

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Két gépes fürt – <http://matyi.inf.unideb.hu:4848>

Az iam029.inf.unideb.hu gépen

Kész

Két gépes fürt – ugyanez a másik gépen

```
Parancssor
C:\glassfish>asadmin create-node-agent --host matyi.inf.unideb.hu iam029
Please enter the admin user name>admin
Please enter the admin password>
Command create-node-agent executed successfully.

C:\glassfish>asadmin start-node-agent iam029
Please enter the admin user name>admin
Please enter the admin password>
Please enter the master password [Enter to accept the default]:>
Redirecting output to C:/glassfish/nodeagents/iam029/agent/logs/server.log
Redirecting application output to C:/glassfish/nodeagents/iam029/agent/logs/server.log
Command start-node-agent executed successfully.

C:\glassfish>
```

Az iam029.inf.unideb.hu gépen

games

Home Version **Server: matyi.inf.unideb.hu** Logout Help

User: admin Domain: domain1

Sun Java™ System Application Server Admin Console

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Node Agents

If a node agent already exists but does not appear here, start the node agent using the `asadmin start-node-agent` command on the node agent's host machine. After the node agent has executed once, it appears here. The Delete button deletes the node agent's configuration. To delete the node agent itself, use the `asadmin delete-node-agent` command on the node agent's host machine.

Node Agents (2)

| New... Delete View: Summary

	Name	Host Name	Node Agent Status	Instances Stopped	Instances Requiring Restart
<input type="checkbox"/>	iam029	gen	Running	--	--
<input type="checkbox"/>	iam043	matyi.inf.unideb.hu	Running	--	--

Két gépes fürt – http://matyi.inf.unideb.hu:4848

Az iam029.inf.unideb.hu gépen

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Állapot: http://localhost:4848/index.jsf

Navigation: Vissza, Előre, Frissítés, Leállítás, Kezdőlap

Search:

Home | Version | **Server: localhost** | Logout | Help

Sun Java™ System Application Server Admin Console

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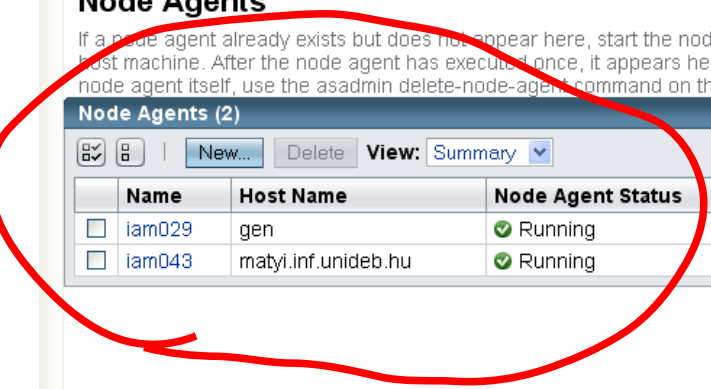
Node Agents

If a node agent already exists but does not appear here, start the node agent using the `asadmin start-node-agent` command on the node agent's host machine. After the node agent has executed once, it appears here. The Delete button deletes the node agent's configuration. To delete the node agent itself, use the `asadmin delete-node-agent` command on the node agent's host machine.

Node Agents (2)

| View:

	Name	Host Name	Node Agent Status	Instances Stopped	Instances Requiring Restart
<input type="checkbox"/>	iam029	gen	✓ Running	--	--
<input type="checkbox"/>	iam043	matyi.inf.unideb.hu	✓ Running	--	--



Két gépes fürt – vissza az első gépre

Az iam043.inf.unideb.hu gépen

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Éjl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/index.jsf

Fiókam Levelezés :: Üdvözlőjl... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Sun Java System Application Ser... Sun 2. Setting Up a Cluster (Sun Java Sys...

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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Clusters

New Cluster

Choose the default-config configuration and click Make a copy of the selected Configuration to create a standalone cluster. Choose another configuration and click Reference the selected Configuration to reference that configuration.

Name: * Name can be up to 255 characters, must be unique, and contain only alphanumeric, underscore, dash, or dot characters

Configuration: The 'default-config' can only be copied, not referenced.

Make a copy of the selected Configuration

Reference the selected Configuration

Server Instances to be Created (0)

Instance Name	Weight	Node Agent
No items found.		

Két gépes fürt – fürt létrehozása ElsoketGepesFurtom néven

Az iam043.inf.unideb.hu gépen

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Éjl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Wissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/index.jsf

Fiókom Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Sun Java System Application Ser... Sun 2. Setting Up a Cluster (Sun Java Sys...

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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Clusters > ElsoketGepesFurtom

General Applications **Instances** Resources JBI

Clustered Server Instances

Before a server instance can be started or stopped, its node agent must be running. Refer to the online help for more information.

Server Instances (2)

|

	Name	Weight	Configuration	Node Agent	Status
<input type="checkbox"/>	Az_iam043_as	100	ElsoketGepesFurtom-config	iam043	✓ Running
<input type="checkbox"/>	Az_iam029_es	100	ElsoketGepesFurtom-config	iam029	✓ Running

Két gépes fürt – miután bekattintottuk a példányokat (instances), s majd elindítottuk őket

További infók:
<http://docs.sun.com/app/docs/doc/819-3193/gatqf?a=view>

Az iam043.inf.unideb.hu gépen

Két gépes fürt – másnap újra elindítom...

Az egyik gépen:

```
asadmin start-domain domain1
```

```
asadmin start-node-agent iam043
```

illetve a másikon:

```
asadmin start-node-agent iam029
```

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

Fiókomb Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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Clusters

Before a server instance can be started or stopped, its node agent must be running. If no node agent exists, create one before creating or starting a cluster. Create node agents on the [Node Agents](#) page. Refer to the online help for more information.

Clusters (1)

| | View:

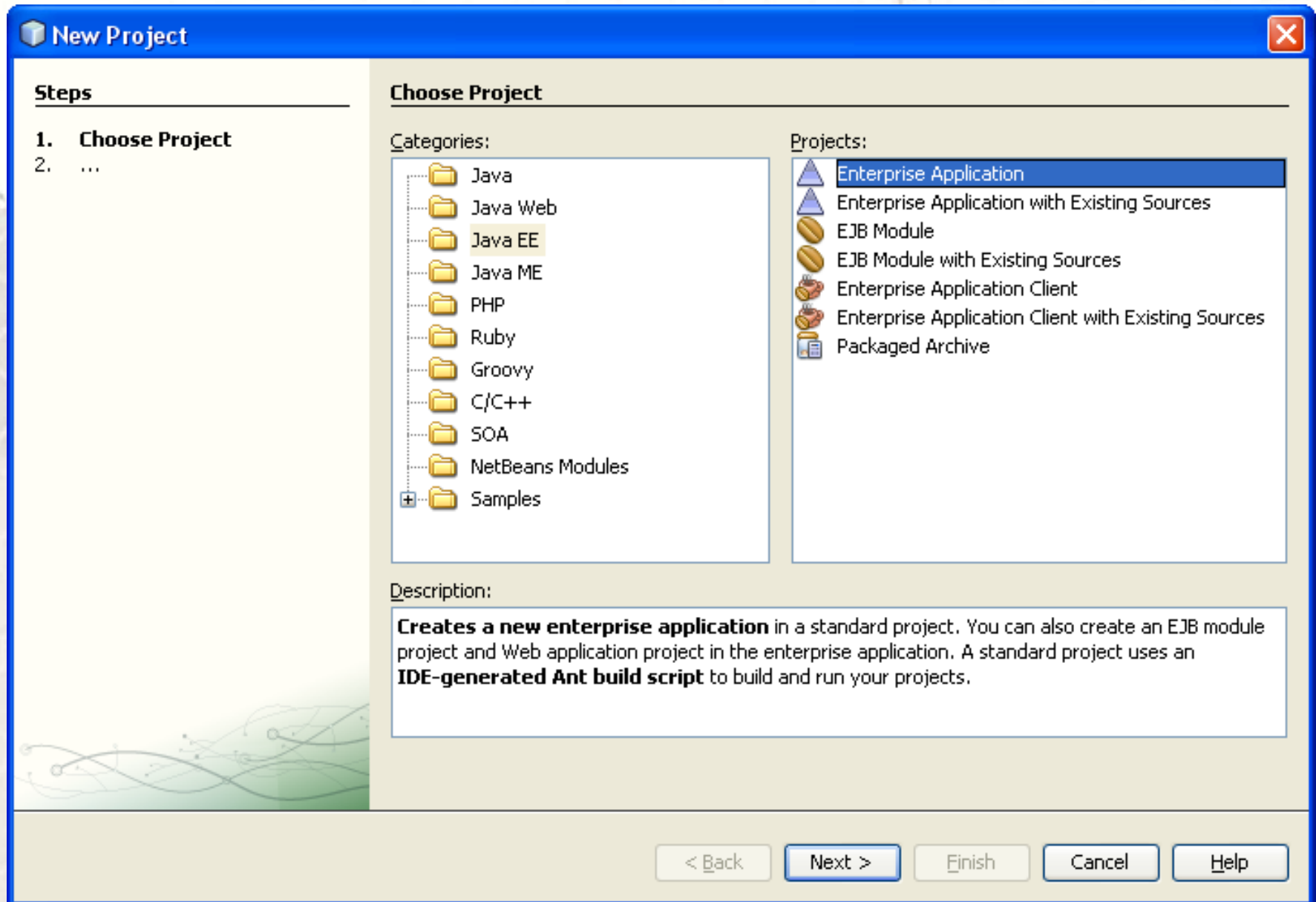
Name	HTTP Load Balancer	Configuration	Instances
<input type="checkbox"/> ElsoketGepesFurtom		ElsoketGepesFurtom-config	Az_iam043_as <input checked="" type="checkbox"/> Running Az_iam029_es <input checked="" type="checkbox"/> Running

Keresés: Összes kiemelés Kis- és nagybetűk megkülönböztetése

Kész

Két gépes fürt – másnap újra elindítom...

Az első EJB alkalmazás



Az első EJB alkalmazás

New Enterprise Application

Steps

1. Choose Project
- 2. Name and Location**
3. Server and Settings

Name and Location

Project Name:

Project Location:

Project Folder:

Use Dedicated Folder for Storing Libraries

Libraries Folder:

Different users and projects can share the same compilation libraries
(see Help for details).

Set as Main Project

< Back Next > Finish Cancel Help

Az első EJB alkalmazás

New Enterprise Application

Steps

1. Choose Project
2. Name and Location
3. **Server and Settings**

Server and Settings

Server:

Use dedicated library folder for server JAR files

Java EE Version:

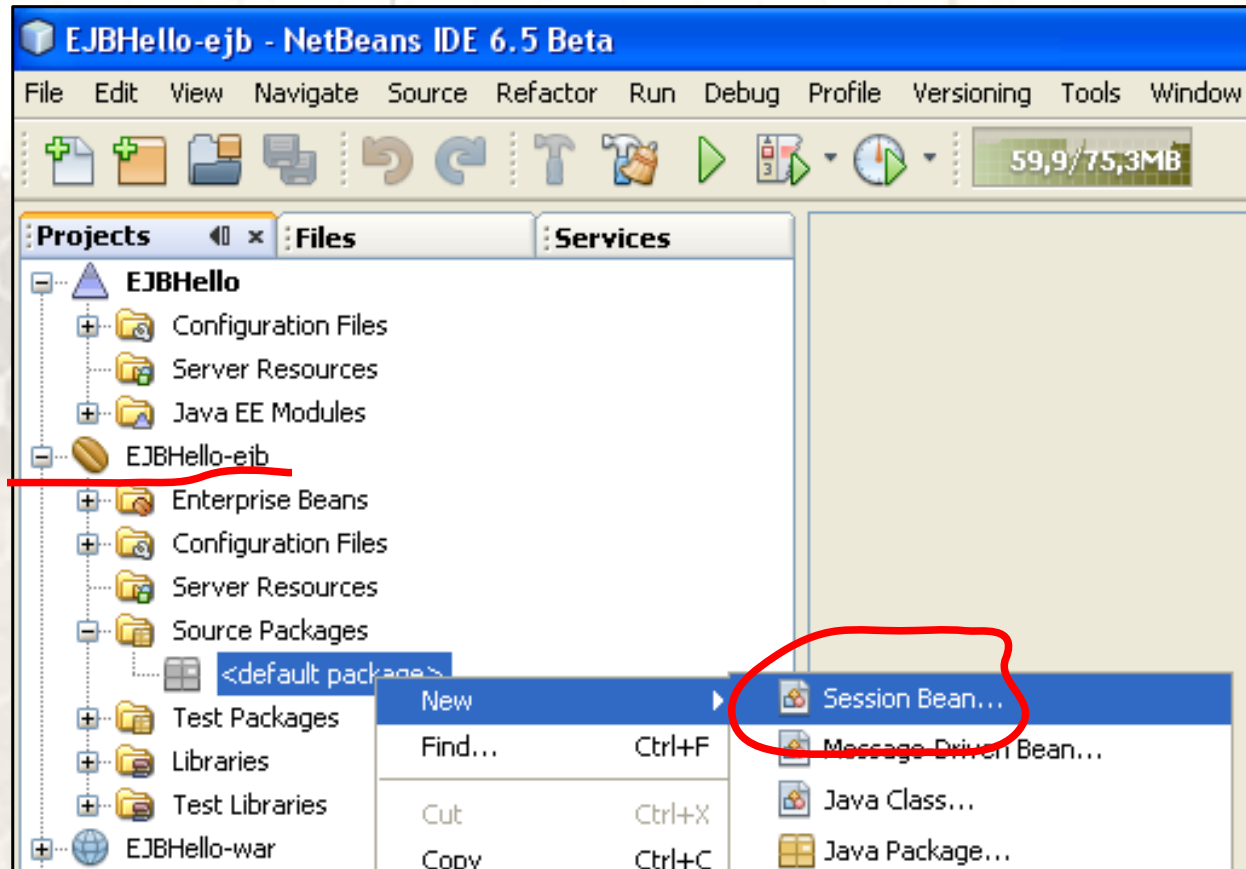
Create EJB Module:

Create Web Application Module:

Create Application Client Module:

Main Class:

Az első EJB alkalmazás stateless session bean



Az első EJB alkalmazás

New Session Bean

Steps

1. Choose File Type
2. **Name and Location**

Name and Location

EJB Name:

Project:

Location:

Package:

Session Type:

Stateless

Stateful

Create Interface:

Remote

Local

< Back Next > Finish Cancel Help

Az első EJB alkalmazás

```
package elso;

import javax.ejb.Remote;

@Remote
public interface EHelloRemote {

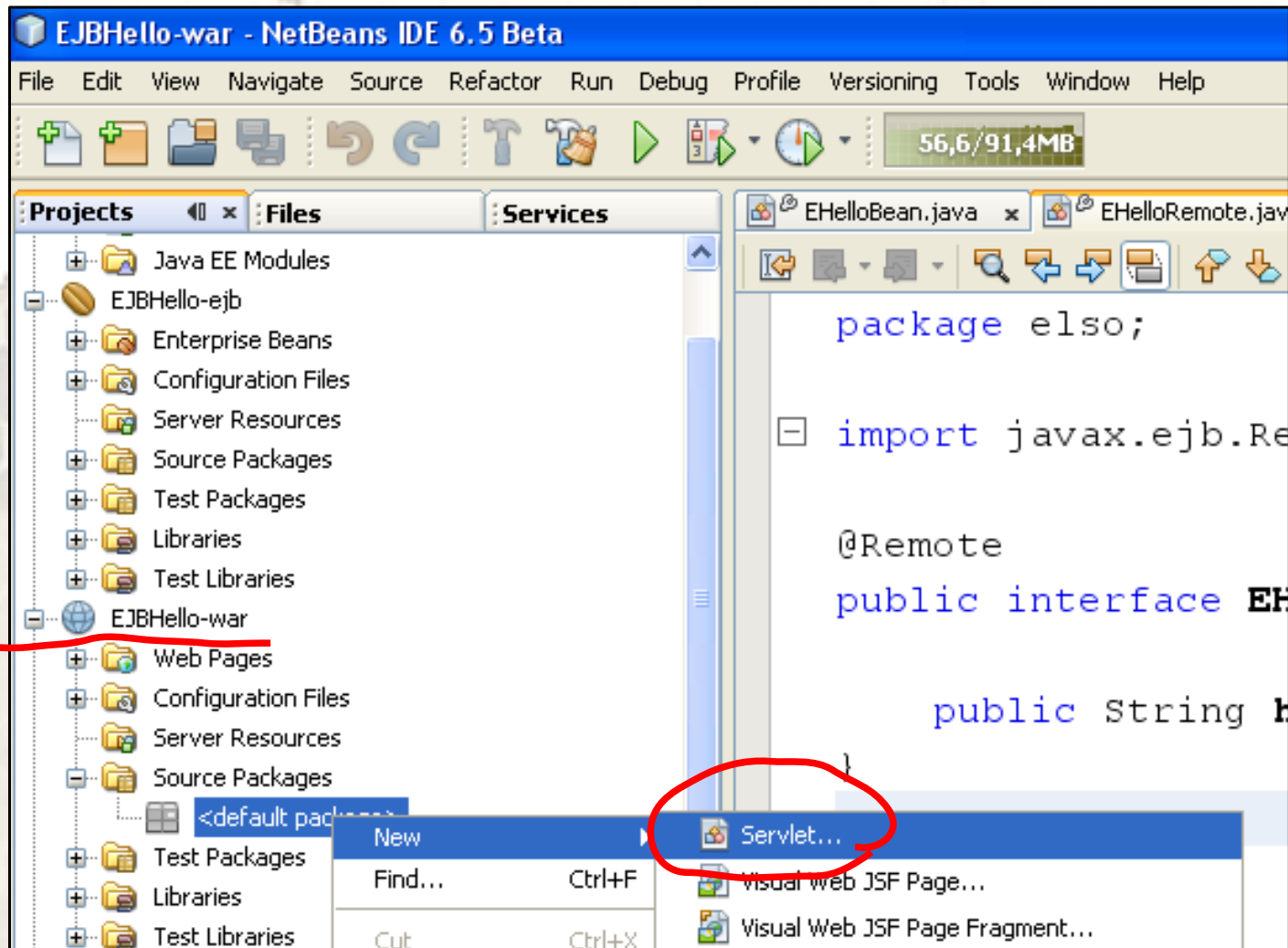
    public String hello();

}
```

Az első EJB alkalmazás

```
package elseo;  
  
import javax.ejb.Stateless;  
  
@Stateless  
public class EHelloBean implements EHelloRemote {  
  
    public String hello() {  
  
        return "Hello!";  
  
    }  
  
}
```

Az első EJB alkalmazás a webes réteg



Az első EJB alkalmazás

New Servlet

Steps

1. Choose File Type
- 2. Name and Location**
3. Configure Servlet Deployment

Name and Location


Class Name:

Project:

Location:

Package:

Created File:

 Warning: It is highly recommended that you do NOT place Java classes in the default package.

Az első EJB alkalmazás

New File

Steps

1. Choose File Type
2. Name and Location
- 3. Configure Servlet Deployment**

Configure Servlet Deployment

Register the Servlet with the application by giving the Servlet an internal name (Servlet Name). Then specify patterns that identify the URLs that invoke the Servlet. Separate multiple patterns with commas.

Add information to deployment descriptor (web.xml)

Class Name:

Servlet Name:

URL Pattern(s):

Initialization Parameters:

Name	Value
------	-------

```
public class EHelloServlet extends javax.servlet.http.HttpServlet {

    else.EHelloRemote ejbHelloBean = null;

    @Override
    public void init() throws javax.servlet.ServletException {
        try {
            javax.naming.InitialContext initialContext =
                new javax.naming.InitialContext();
            ejbHelloBean = (else.EHelloRemote)
                initialContext.lookup(else.EHelloRemote.class.getName());
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    @Override
    protected void doGet(javax.servlet.http.HttpServletRequest request,
        javax.servlet.http.HttpServletResponse response)
        throws javax.servlet.ServletException, java.io.IOException {
        response.setContentType("text/html;charset=UTF-8");
        java.io.PrintWriter out = response.getWriter();

        out.println("Helló a szervletből!");
        out.println(ejbHelloBean.hello());
    }
}
```

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Applications > Enterprise Applications

Deploy Enterprise Applications/Modules

Specify the location of an application to deploy. Applications can be in packaged files such .war, .ear, .jar, and .rar.

Type:

Location: Packaged file to be uploaded to the server
 Tallózás...

c:\Documents and Settings\Bátfai Norbert\
Dokumentumok\NetBeansProjects\EJBHello\dist\EJBHello.ear

Application Name: *

Status: Enabled

Java Web Start: Enabled

Availability: Enabled

Run Verifier: Enabled

Precompile JSPs: Enabled
 Precompile JSPs, deploy only resulting class files

Libraries:
 A comma-separated list of library JAR files. Specify the library JAR files by their relative or absolute paths. Specify relative paths relative to *instance-root/lib/appLibs*. The libraries are made available to the application in the order specified.

Description:
 Makes it easier to find this session later

Az első EJB alkalmazásunk deployolása

Targets

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Ejl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/

Fiókom Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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Applications > Enterprise Applications

Enterprise Applications

An enterprise application is a J2EE application in an EAR (Enterprise Application Archive) file or directory.

Deployed Enterprise Applications (1)

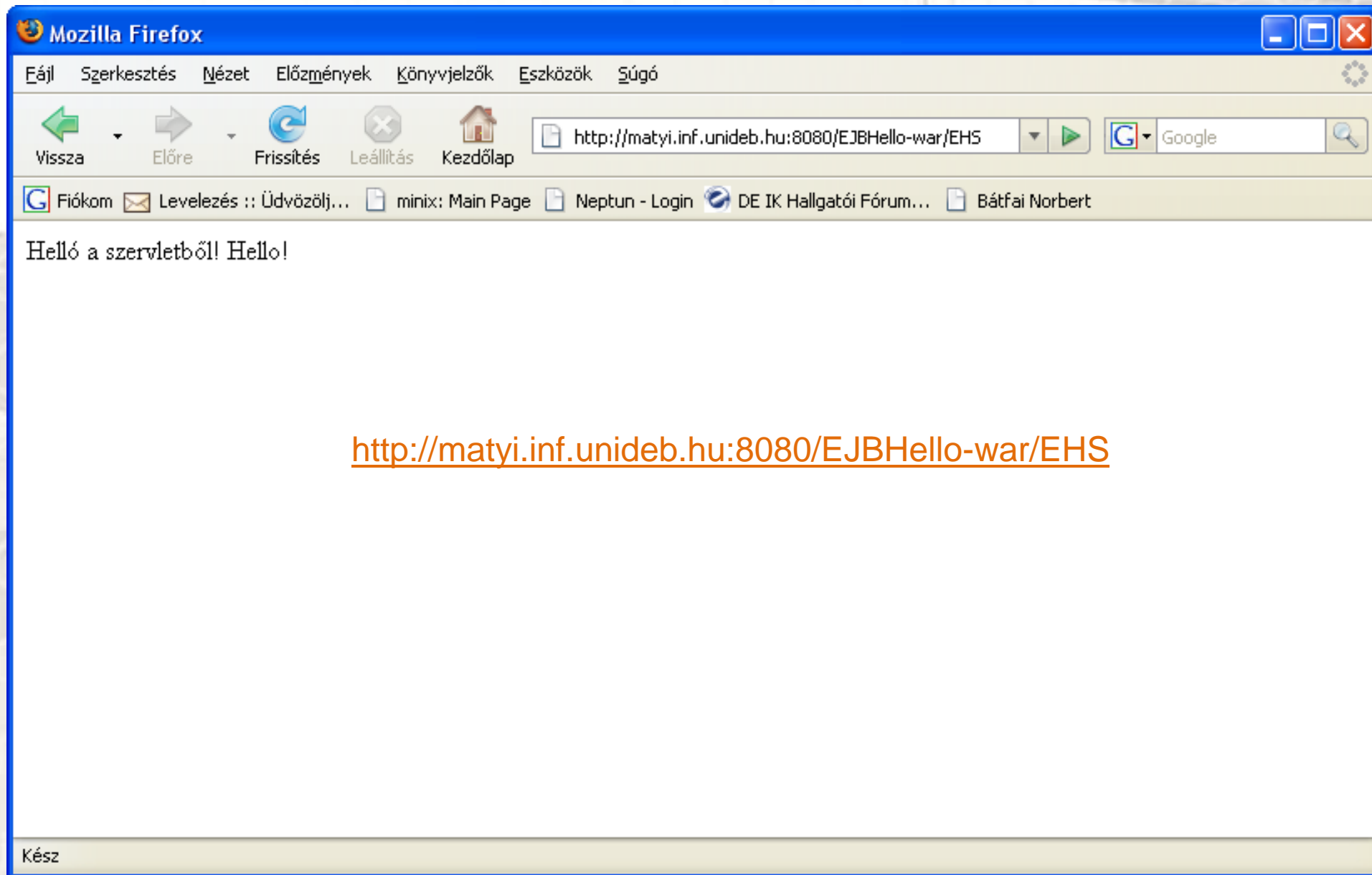
| [Deploy...](#) [Undeploy](#) [Enable](#) [Disable](#) | View: [Summary](#)

Name	Status	Action
<input type="checkbox"/> EJBHello	Enabled on All Targets	Redeploy

Az első EJB alkalmazás fut

Keresés: szál [Következő](#) [Előző](#) [Összes kiemelés](#) Kis- és nagybetűk megkülönböztetése

Az első EJB alkalmazás valóban fut



<http://matyi.inf.unideb.hu:8080/EJBHello-war/EHS>

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/

Google

Fiókomb Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Sun Java System Application Ser... http://gen:38080/EJBHello-war/EHS http://matyi:38080/EJBHello-war/EHS

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

Applications > Enterprise Applications

Deploy Enterprise Applications/Modules

OK Cancel

Specify the location of an application to deploy. Applications can be in packaged files such .war, .ear, .jar, and .rar.

Type: Enterprise Application (.ear)

Location: Packaged file to be uploaded to the server
C:\Documents and Settings\Bátfai Norbert\Dokumentumok\Tallózás...

Local packaged file or directory that is accessible from the Application Server

Browse Files...
Browse Folders...

General

Application Name: * EJBHello

Status: Enabled

Java Web Start: Enabled

Availability: Enabled

Kész

Az első EJB alkalmazás a fürtön

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/

Fiókomb Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Sun Java System Application Ser... http://gen:38080/EJBHello-war/EHS http://matyi:38080/EJBHello-war/EHS

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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 - iam043
 - iam022

Precompile JSPs, deploy only resulting class files

Libraries:

A comma-separated list of library JAR files. Specify the library JAR files by their relative or absolute paths. Specify relative paths relative to *instance-root/lib/applibs*. The libraries are made available to the application in the order specified.

Description:

Makes it easier to find this session later

Targets

Available Targets:

- server

Selected Targets:

- ElsoketGepesFurtom

Add > Add All >> < Remove << Remove All

OK Cancel

Kész

Az első EJB alkalmazás a fürtön

Sun Java System Application Server 9.1_02 Admin Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:4848/

Google

Fiókom Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Sun Java System Application Ser... http://gen:38080/EJBHello-war/EHS http://matyi:38080/EJBHello-war/EHS

Home Version Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

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Applications > Enterprise Applications

Enterprise Applications

An enterprise application is a J2EE application in an EAR (Enterprise Application Archive) file or directory.

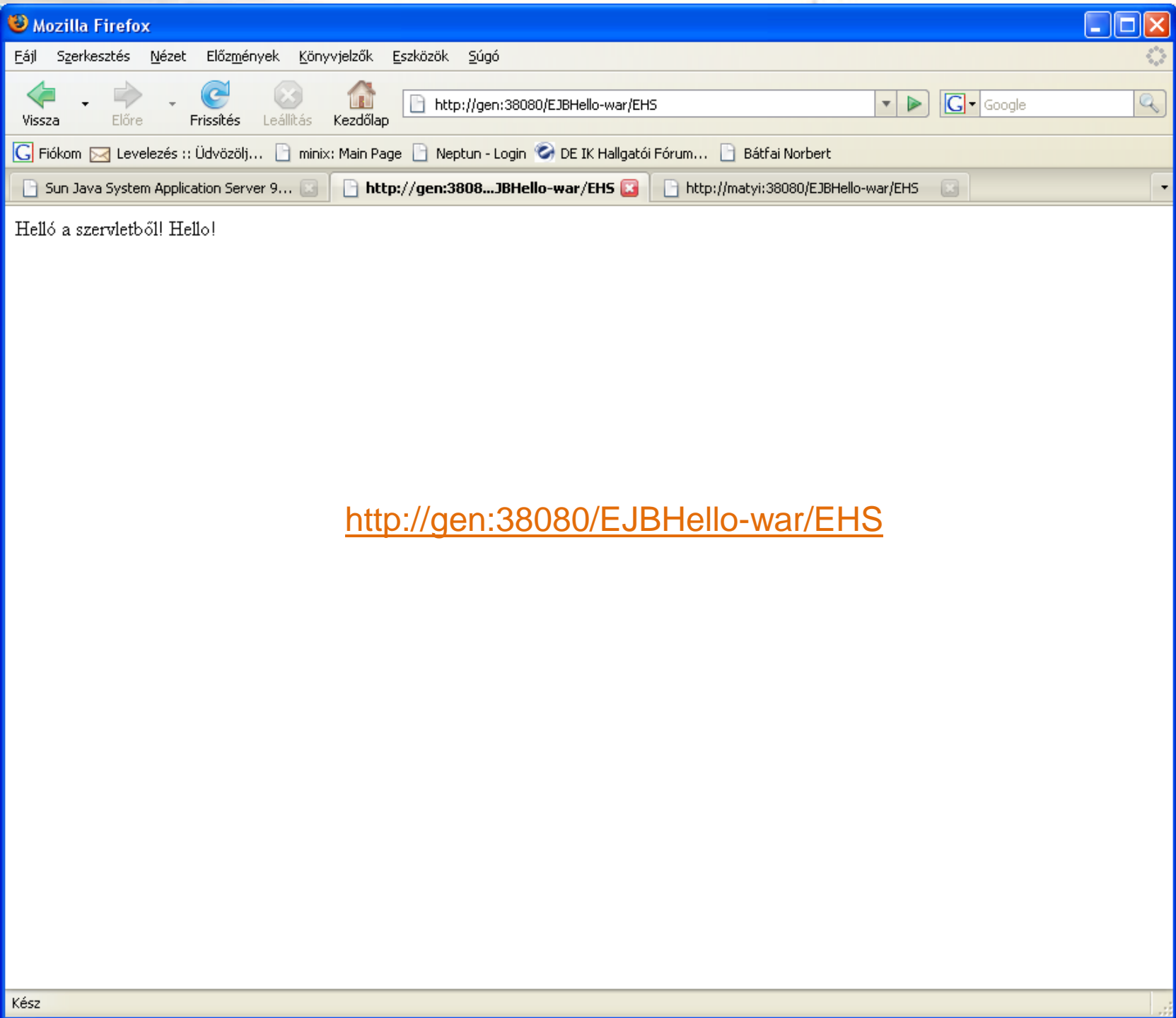
Deployed Enterprise Applications (1)

| | View:

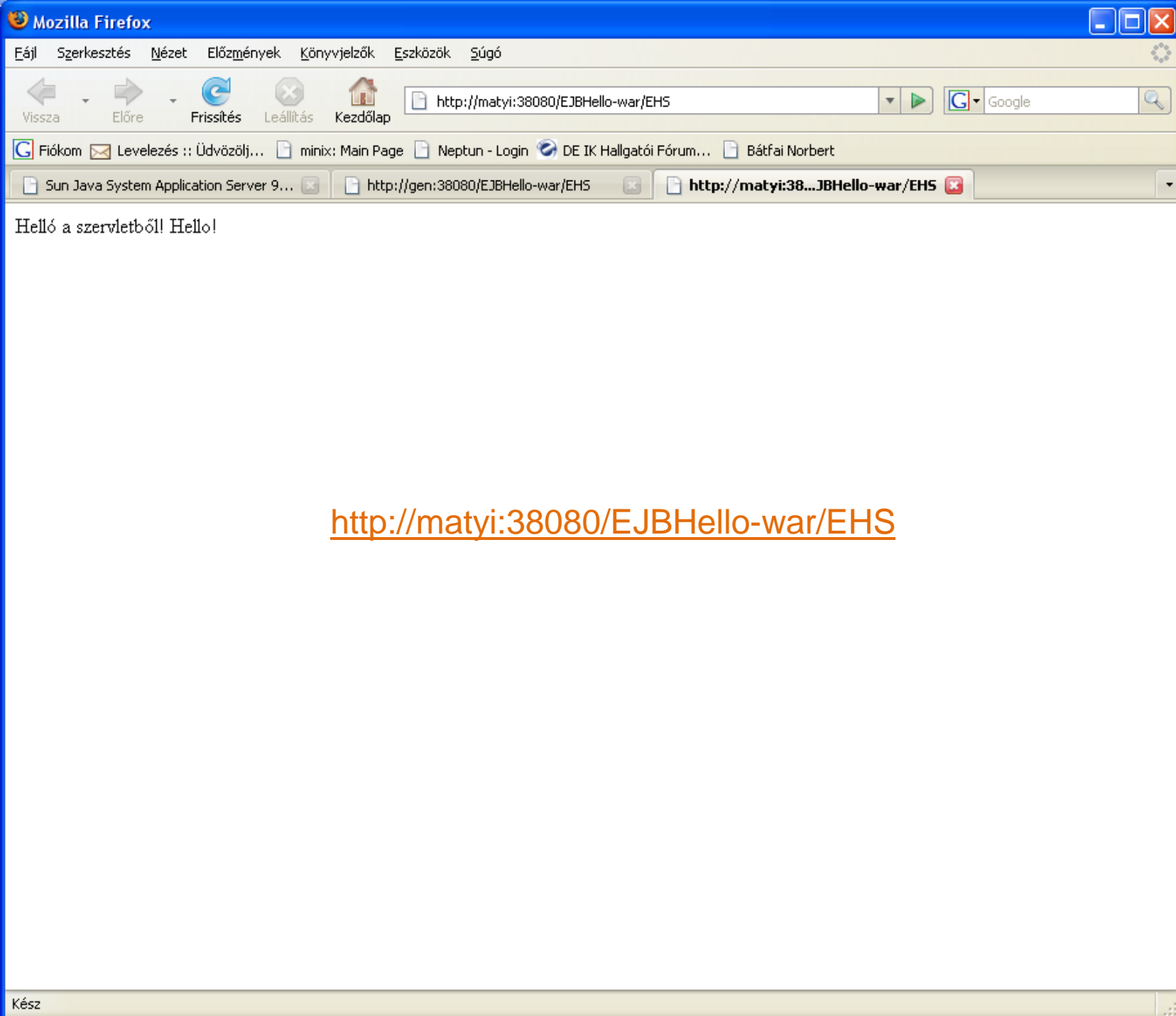
	Name	Status	Target	Action
<input type="checkbox"/>	EJBHello	Enabled on All Targets	<input checked="" type="checkbox"/> ElsoketGepesFurtom	<input type="button" value="Redeploy"/>

Kész

Az első EJB alkalmazás a fürtön



<http://gen:38080/EJBHello-war/EHS>



<http://matyi:38080/EJBHello-war/EHS>

Az első EJB alkalmazás a fürdőn

```
package also;

@javax.ejb.Stateless
public class EHelloBean implements EHelloRemote {

    private static java.util.logging.Logger logger =
        java.util.logging.Logger.getLogger(EHelloBean.class.getName());

    public String hello() {

        logger.info("Helló a logba a beanből");
        return "Hello!";
    }
}
```

Az első EJB alkalmazás a fürdőn

```
@Override
protected void doGet(javax.servlet.http.HttpServletRequest request,
    javax.servlet.http.HttpServletResponse response)
    throws javax.servlet.ServletException, java.io.IOException {
    response.setContentType("text/html;charset=UTF-8");
    java.io.PrintWriter out = response.getWriter();

    out.println("Helló a szervletből!");
    out.println(ejbHelloBean.hello());
    log("Helló a logba");
}
```


Log Viewer

[Search](#) [Close](#)

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Az első EJB alkalmazás a fűrtön

Search Criteria

Instance Name: Log File:

Timestamp
 Most Recent
 Specific Range:

Log Level: Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

[Search](#) [Close](#)[Modify Search](#)

Instance: Az_jam029_es

Log File Directory: C:\glassfish\nodeagents\iam029\Az_jam029_es\logs

Log Viewer Results (40)

[Records before 1548](#) Log File Record Numbers 1548 through 1587 [Records after 1587](#) |

Record Number	Log Level	Message	Logger
1587	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise syste
1586	INFO	Helló a logba a beanből(details)	also.EHelloBean
1585	INFO	previously called = true(details)	javax.enterprise syste
1584	INFO	Enabling ha-based persistence for web module [/EJBHello-war]'s sessions: persistence-type = [replica... (details)	javax.enterprise syste

Log Viewer

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Az első EJB alkalmazás a fűrtön

Search Criteria

Instance Name: Log File:

Timestamp
 Most Recent
 Specific Range:

Log Level: Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

 [Modify Search](#)

Instance: Az_jam043_as

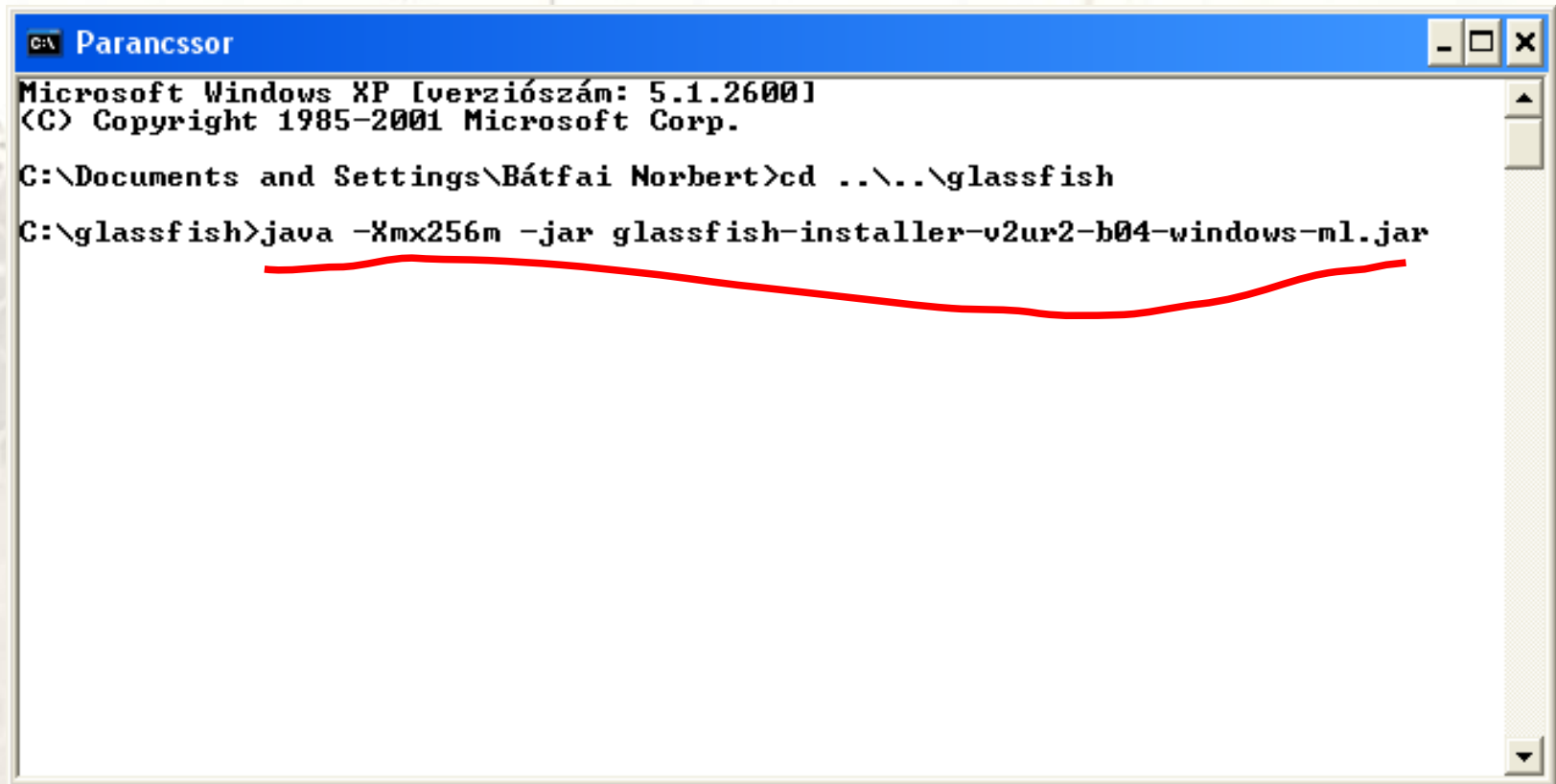
Log File Directory: C:\glassfish\nodeagents\iam043\Az_jam043_as\logs

Log Viewer Results (40)

Records before 1711 | Log File Record Numbers 1711 through 1750 | Records after 1750 |

Record Number	Log Level	Message	Logger
1750	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container
1749	INFO	Helló a logba a beanből(details)	also.EHelloBean
1748	INFO	previously called = true(details)	javax.enterprise.system.stream.o
1747	INFO	Enabling ha-based persistence for web module [/EJBHello-war]'s sessions: persistence-type = [replica... (details)	javax.enterprise.system.container

Fürt egy gépen



```
C:\ Parancssor
Microsoft Windows XP [verziószám: 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Bátfai Norbert>cd ..\..\glassfish
C:\glassfish>java -Xmx256m -jar glassfish-installer-v2ur2-b04-windows-m1.jar
```

https://glassfish.dev.java.net/javaee5/build/GlassFish_LB_Cluster.html

Fürt egy gépen

```
Parancssor
glassfish\updatecenter\lib\jdk\sunos\x86\libjdkic.so
glassfish\updatecenter\lib\jdk\sunos\x86\libmozembed-solaris-gtk2.so
glassfish\updatecenter\lib\jdk\sunos\x86\libtray.so
glassfish\updatecenter\lib\jdk\sunos\x86\mozembed-solaris-gtk2
glassfish\updatecenter\lib\jdk\windows\jdkic_stub.jar
glassfish\updatecenter\lib\jdk\windows\x86\IeEmbed.exe
glassfish\updatecenter\lib\jdk\windows\x86\jdkic.dll
glassfish\updatecenter\lib\jdk\windows\x86\MozEmbed.exe
glassfish\updatecenter\lib\jdk\windows\x86\tray.dll
glassfish\updatecenter\lib\jhall.jar
glassfish\updatecenter\lib\schema2beans.jar
glassfish\updatecenter\lib\schema2beansdev.jar
glassfish\updatecenter\lib\swing-layout-1.0.1.jar
glassfish\updatecenter\lib\updatecenter-gui.jar
glassfish\updatecenter\lib\updatecenter-installer.jar
glassfish\updatecenter\lib\updatecenter-javahelp.jar
glassfish\updatecenter\lib\updatecenter.jar
glassfish\updatecenter\LICENSE.txt
glassfish\updatecenter\README
glassfish\updatecenter\registry\SYSTEM\local.xml
installation complete

C:\glassfish>cd glassfish
C:\glassfish\glassfish>lib\ant\bin\ant -f setup-cluster.xml_
```

Fürt egy gépen

```
Parancssor
[exec] Using port 3700 for IIOP.
[exec] Using port 8181 for HTTP_SSL.
[exec] Using default port 3820 for IIOP_SSL.
[exec] Using default port 3920 for IIOP_MUTUALAUTH.
[exec] Using default port 8686 for JMX_ADMIN.
[exec] Domain being created with profile:cluster, as specified by variable
AS_ADMIN_PROFILE in configuration file.
[exec] The file in given locale [hu_HU] at: [C:\glassfish\glassfish\lib\ins
tall\templates\locales\hu_HU\index.html] could not be found. Using default (en_U
S) index.html instead.
[exec] Security Store uses: JKS
[exec] Domain domain1 created.
[exec] Admin login information for host [localhost] and port [4848] is bein
g overwritten with credentials provided. This is because the --savelogin option
was used during create-domain command.
[exec] Login information relevant to admin user name [admin] for this domai
n [domain1] stored at [C:\Documents and Settings\Bötfai Norbert\.asadminpass] su
ccessfully.
[exec] Make sure that this file remains protected. Information stored in th
is file will be used by asadmin commands to manage this domain.
[delete] Deleting: C:\glassfish\glassfish\passfile

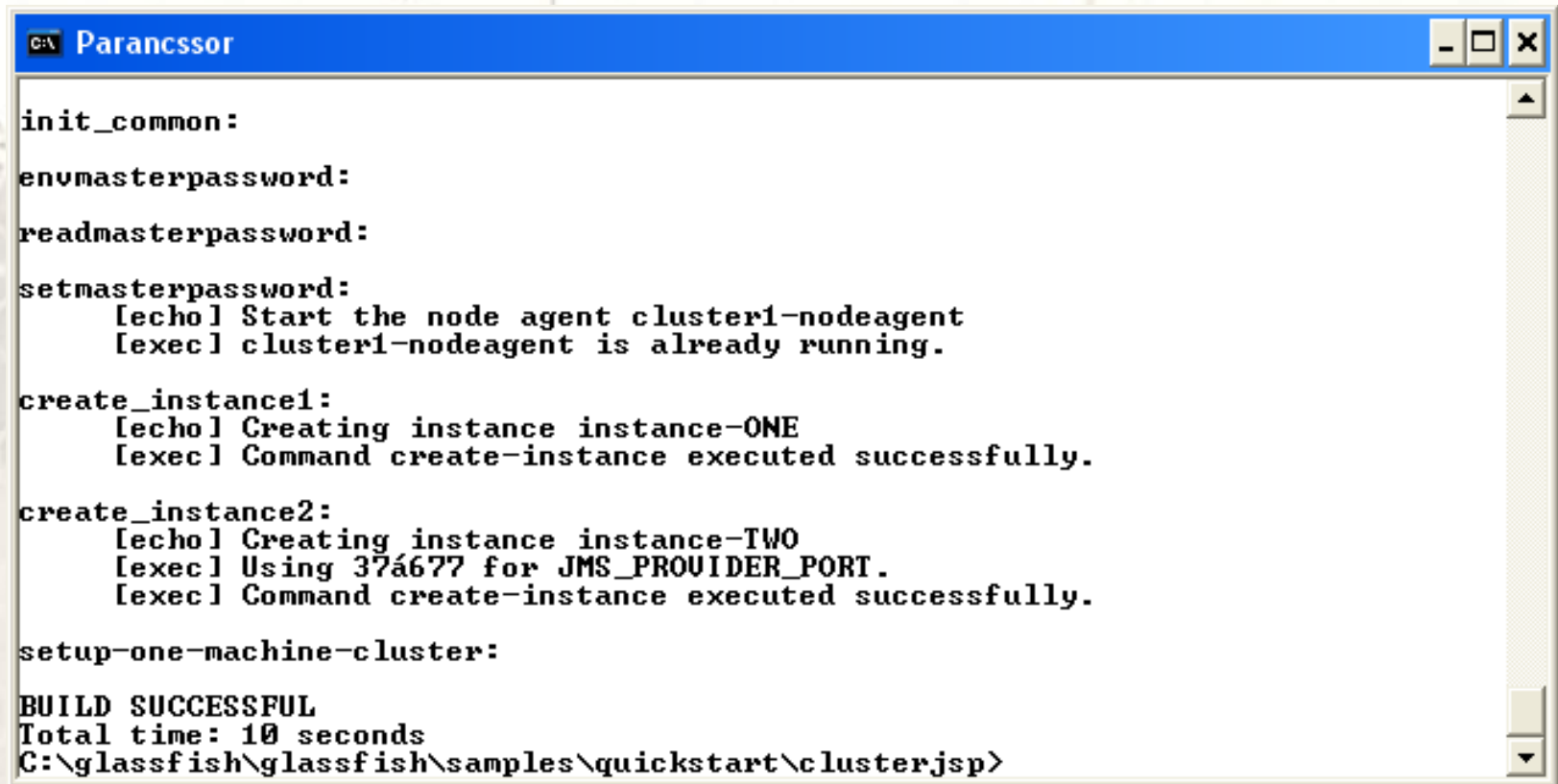
BUILD SUCCESSFUL
Total time: 28 seconds
C:\glassfish\glassfish>asadmin start-domain domain1
```

Fürt egy gépen

```
Parancssor
C:\glassfish\glassfish>asadmin start-domain domain1
Starting Domain domain1, please wait.
Log redirected to C:\glassfish\glassfish\domains\domain1\logs\server.log.
Redirecting output to C:/glassfish/glassfish/domains/domain1/logs/server.log
Domain domain1 started.
Domain [domain1] is running [Sun Java System Application Server 9.1_02 (build b0
4-fcs)] with its configuration and logs at: [C:\glassfish\glassfish\domains].
Admin Console is available at [http://localhost:4848].
Use the same port [4848] for "asadmin" commands.
User web applications are available at these URLs:
[http://localhost:8080 https://localhost:8181 ].
Following web-contexts are available:
[/web1 /__wstx-services ].
Standard JMX Clients (like JConsole) can connect to JMXServiceURL:
[service:jmx:rmi:///jndi/rmi://kalapacs:8686/jmxrmi] for domain management purpo
ses.
Domain listens on at least following ports for connections:
[8080 8181 4848 3700 3820 3920 8686 ].
Domain supports application server clusters and other standalone instances.

C:\glassfish\glassfish>cd samples\quickstart\clusterjsp
C:\glassfish\glassfish\samples\quickstart\clusterjsp>asant setup-one-machine-clu
ster_
```

Fürt egy gépen

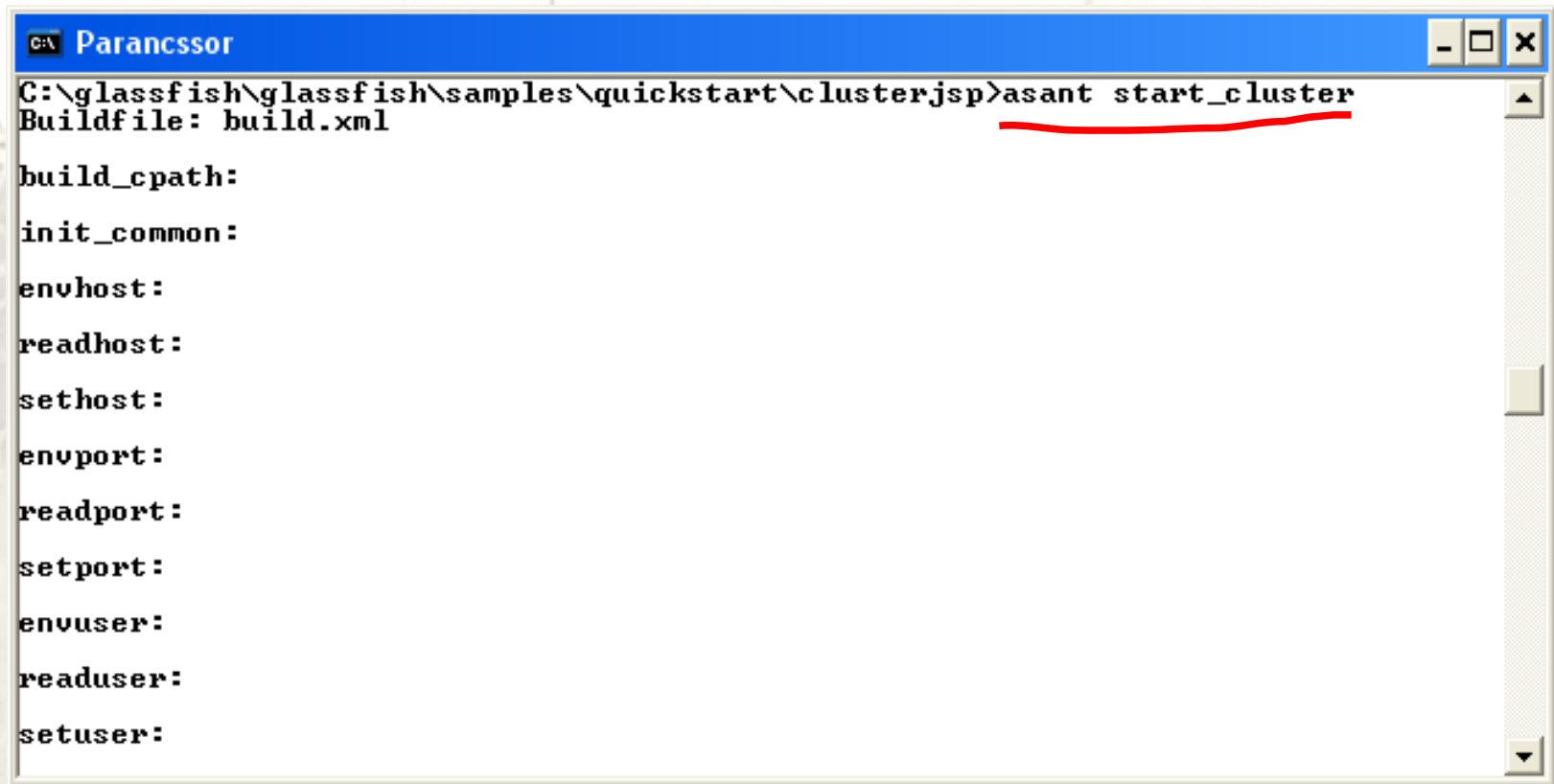


```
C:\ Parancssor

init_common:
enumasterpassword:
readmasterpassword:
setmasterpassword:
    [echo] Start the node agent cluster1-nodeagent
    [exec] cluster1-nodeagent is already running.
create_instance1:
    [echo] Creating instance instance-ONE
    [exec] Command create-instance executed successfully.
create_instance2:
    [echo] Creating instance instance-TWO
    [exec] Using 37á677 for JMS_PROVIDER_PORT.
    [exec] Command create-instance executed successfully.
setup-one-machine-cluster:

BUILD SUCCESSFUL
Total time: 10 seconds
C:\glassfish\glassfish\samples\quickstart\clusterjsp>
```

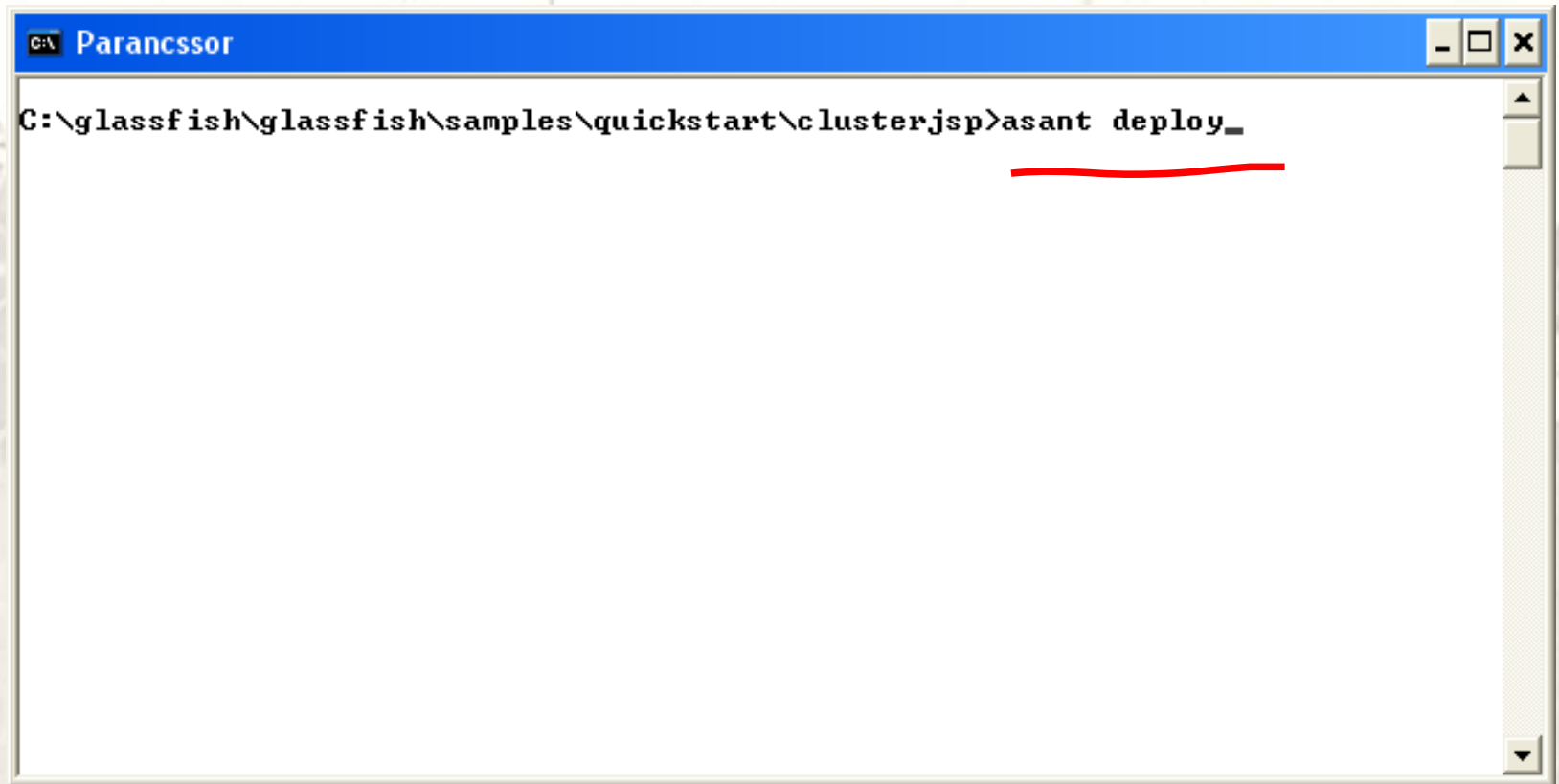
Fürt egy gépen



```
C:\ Parancssor
C:\glassfish\glassfish\samples\quickstart\clusterjsp>asant start_cluster
Buildfile: build.xml

build_cpath:
init_common:
envhost:
readhost:
sethost:
envport:
readport:
setport:
envuser:
readuser:
setuser:
```


Fürt egy gépen



```
C:\ Parancssor  
C:\glassfish\glassfish\samples\quickstart\clusterjsp>asant deploy_
```

The image shows a Windows command prompt window with a blue title bar containing the text "C:\ Parancssor". The main area of the window is white and contains the command "C:\glassfish\glassfish\samples\quickstart\clusterjsp>asant deploy_" followed by a red wavy underline. The window has standard Windows window controls (minimize, maximize, close) in the top right corner and a vertical scrollbar on the right side.

- Common Tasks
- Registration
- Domain
- Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
- Web Services
- JBI
 - Service Assemblies
 - Components
 - Shared Libraries
- Custom MBeans
- Resources
- Clusters
 - cluster1
 - instance-ONE
 - instance-TWO

Applications > Enterprise Applications

Deploy Enterprise Applications/Modules

Specify the location of an application to deploy. Applications can be in packaged files such .war, .ear, .jar, and .rar.

Type: Enterprise Application (.ear)

Location: Packaged file to be uploaded to the server
C:\Documents and Settings\Bátfai Norbert\Dokumentumok\Tallózás...

c:\Documents and Settings\Bátfai Norbert\Dokumentumok\EARs\EJBHello.ear

General

Application Name: * EJBHello

Status: Enabled

Java Web Start: Enabled

Availability: Enabled

Run Verifier: Enabled

Precompile JSPs: Enabled
Precompile JSPs, deploy only resulting class files

- Common Tasks
- Registration
- Domain
- Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
- Web Services
- JBI
 - Service Assemblies
 - Components
 - Shared Libraries
- Custom MBeans
- Resources
- Clusters
 - cluster1
 - instance-ONE
 - instance-TWO

Precompile JSPs: Enabled

Precompile JSPs, deploy only resulting class files

Libraries:

A comma-separated list of library JAR files. Specify the library JAR files by their relative or absolute paths. Specify relative paths relative to *instance-root/lib/applibs*. The libraries are made available to the application in the order specified.

Description:

Makes it easier to find this session later

Targets

Available Targets:

- server

- Add >
- Add All >>
- < Remove
- << Remove All

Selected Targets:

- cluster1

OK Cancel

Home Version

Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

Common Tasks

- Registration
- Domain
- Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
- Web Services
- JBIC
 - Service Assemblies
 - Components
 - Shared Libraries
- Custom MBeans
- Resources
- Clusters
 - cluster1
- Stand-Alone Instances
- HTTP Load Balancers
- Node Agents

Applications > Enterprise Applications

Enterprise Applications

An enterprise application is a J2EE application in an EAR (Enterprise Application Archive) file or directory.

Deployed Enterprise Applications (2)

| [Deploy...](#) [Undeploy](#) [Enable](#) [Disable](#) | View: [Detailed](#)

	Name	Status	Target	Action
<input type="checkbox"/>	EJBHello	Enabled on All Targets	✓ cluster1	Redeploy
<input type="checkbox"/>	clusterjsp	Enabled on All Targets	✓ cluster1	Redeploy

Home Version

Logout Help

User: admin Domain: domain1 Server: localhost

Sun Java™ System Application Server Admin Console

- Common Tasks
 - Registration
 - Domain
 - Applications
 - Enterprise Applications
 - Web Applications
 - EJB Modules
 - Connector Modules
 - Lifecycle Modules
 - Application Client Modules
 - Web Services
 - JBIC
 - Service Assemblies
 - Components
 - Shared Libraries
 - Custom MBeans
 - Resources
 - Clusters
 - cluster1
 - instance-ONE
 - instance-TWO

Node Agents > cluster1-nodeagent

Instance Values of HTTP_LISTENER_PORT

Save Back

Instance Property Values (2)		
Instance Name	Cluster Name	Parameter Value
instance-TWO	cluster1	1111
instance-ONE	cluster1	1110



Cluster - HA JSP Sample

HttpSession Information:

- Served From Server: **localhost**
- Server Port Number: **1110**
- Executed From Server: **kalapacs**
- Served From Server instance: **instance-ONE**
- Executed Server IP Address: **89.134.122.134**
- Session ID: **90a8c89c7ca1f08096a2207764bf**
- Session Created: Sat Nov 01 18:12:22 CET 2008
- Last Accessed: Sat Nov 01 18:12:22 CET 2008
- Session will go inactive in **1800 seconds**

Enter session attribute data:

Name of Session Attribute:

Value of Sesion Attribute:

ADD SESSION DATA

RELOAD PAGE

CLEAR SESSION

Data retrieved from the HttpSession:

INSTRUCTIONS

- Add session data using the form. Upon pressing ADD SESSION DATA, the current session data will be listed.
- Click on RELOAD PAGE to display the current session data without adding new data.
- Click on CLEAR SESSION to invalidate the current session.

Cluster - HA JSP Sample

HttpSession Information:

- Served From Server: **localhost**
- Server Port Number: **1111**
- Executed From Server: **kalapacs**
- Served From Server instance: **instance-TWO**
- Executed Server IP Address: **89.134.122.134**
- Session ID: **90a8c89c7ca1f08096a2207764bf**
- Session Created: Sat Nov 01 18:12:22 CET 2008
- Last Accessed: Sat Nov 01 18:12:22 CET 2008
- Session will go inactive in **1800 seconds**

Enter session attribute data:

Name of Session Attribute: Value of Sesion Attribute:

Data retrieved from the HttpSession:

INSTRUCTIONS

- Add session data using the form. Upon pressing ADD SESSION DATA, the current session data will be listed.
- Click on RELOAD PAGE to display the current session data without adding new data.
- Click on CLEAR SESSION to invalidate the current session.

Cluster - HA JSP Sample

HttpSession Information:

- Served From Server: **localhost**
- Server Port Number: **1110**
- Executed From Server: **192.168.1.100**
- Served From Server instance: **instance-ONE**
- Executed Server IP Address: **89.134.122.134**
- Session ID: **90a8c89c7ca1f08096a2207764bf**
- Session Created: Sat Nov 01 18:12:22 CET 2008
- Last Accessed: Sat Nov 01 18:24:29 CET 2008
- Session will go inactive in **1800 seconds**

Enter session attribute data:

Name of Session Attribute:

Value of Session Attribute:

Data retrieved from the HttpSession:

- alma = korte

INSTRUCTIONS

Cluster - HA JSP Sample

HttpSession Information:

- Served From Server: **localhost**
- Server Port Number: **1111**
- Executed From Server: **localhost**
- Served From Server instance: **instance-TWO**
- Executed Server IP Address: **89.134.122.134**
- Session ID: **90a8c89c7ca1f08096a2207764bf**
- Session Created: Sat Nov 01 18:12:22 CET 2008
- Last Accessed: Sat Nov 01 18:25:09 CET 2008
- Session will go inactive in **1800 seconds**

Enter session attribute data:

Name of Session Attribute:

Value of Session Attribute:

ADD SESSION DATA

RELOAD PAGE

CLEAR SESSION

Data retrieved from the HttpSession:

- alma = korte
- banan = dio

INSTRUCTIONS

Helló a szervletből! Hello!

<http://localhost:1110/EJBHello-war/EHS>

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: Log File:

Timestamp

 Most Recent Specific Range.

Log Level:

 Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

Instance: instance-ONE

Log File Directory: C:\glassfish\glassfish\nodeagents\cluster1-nodeagent\instance-ONE\logs

Log Viewer Results (0)

Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pairs
---------------	-----------	---------	--------	-----------	------------------

No items found.

Log Viewer

[Search](#) [Close](#)

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: Log File: Timestamp
 Most Recent
 Specific Range:Log Level: Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

[Search](#) [Close](#)[Modify Search](#)

Instance: instance-ONE

Log File Directory: C:\glassfish\glassfish\nodeagents\cluster1-nodeagent\instance-ONE\logs

Log Viewer Results (40)

Records before 116 | Log File Record Numbers 116 through 155 | Records after 155 |

Record Number	Log Level	Message	Logger	Timestamp	Name-Value
155	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 1, 2008 18:28:16.046	_ThreadID=24 _ThreadName 1110-0;
154	INFO	Helló a logba a beanbőli(details)	also.EHelloBean	Nov 1, 2008 18:28:16.046	_ThreadID=24 _ThreadName 1110-0;
153	INFO	previously called = true(details)	javax.enterprise.system.stream.out	Nov 1, 2008 18:27:47.250	_ThreadID=25 Connection(79
152	INFO	Enabling ha-based persistence for web module [/EJBHello-war]'s sessions: persistence-type = [replica... (details)	javax.enterprise.system.container.web	Nov 1, 2008 18:27:47.234	_ThreadID=25 Connection(79 war;replicated



GlassFish V3

Progress

- Welcome
- License
- Installation Directory
- Administration Settings
- Update Configuration
- Ready To Install
- Progress**
- Product Registration
- Summary

GlassFish v3 Prelude

Designed for Developer Productivity

- Microkernel architecture based on OSGi
- Fast startup and low memory footprint
- Support for NetBeans and Eclipse
- <http://glassfishplugins.dev.java.net>

https://glassfish.dev.java.net/public/comparing_v2_and_v3.html



Created by Sun Microsystems, Inc with contributions from the GlassFish community

Configuring Update Tool Bootstrap. This may take a few minutes...



Cancel

Back

Next

Apache és GlassFish

- Apache 2.2.10: <http://httpd.apache.org/download.cgi>
- Apache Tomcat Connector JK 1.2.27: <http://tomcat.apache.org/download-connectors.cgi>

workers.properties fájl létrehozása: <http://tomcat.apache.org/connectors-doc/reference/workers.html>

...

```
workers.tomcat_home=c:\glassfish
```

...

```
worker.list=worker1
```

```
worker.worker1.type=ajp13
```

```
worker.worker1.host=localhost
```

```
worker.worker1.port=8009
```

...

- Az Apache conf/httpd.conf szerkesztése: http://tomcat.apache.org/connectors-doc/webserver_howto/apache.html

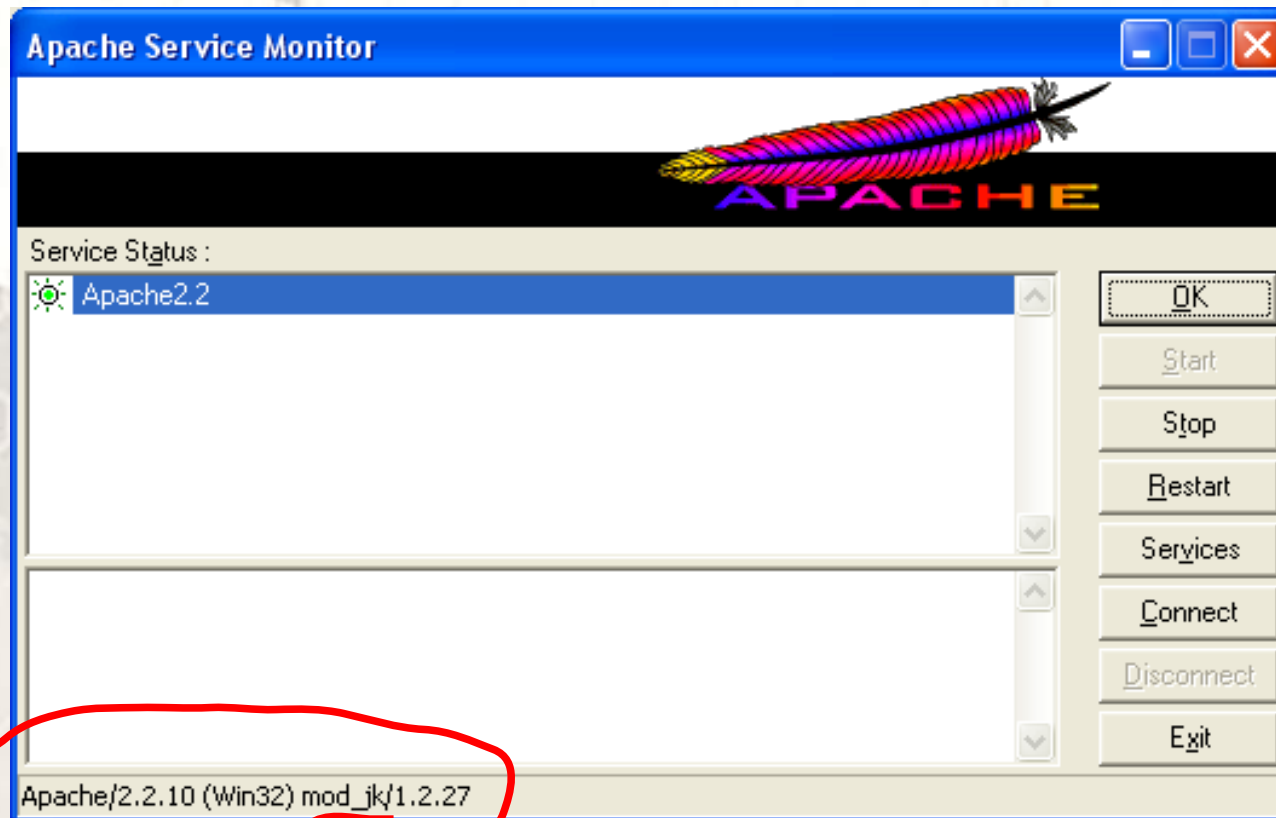
...

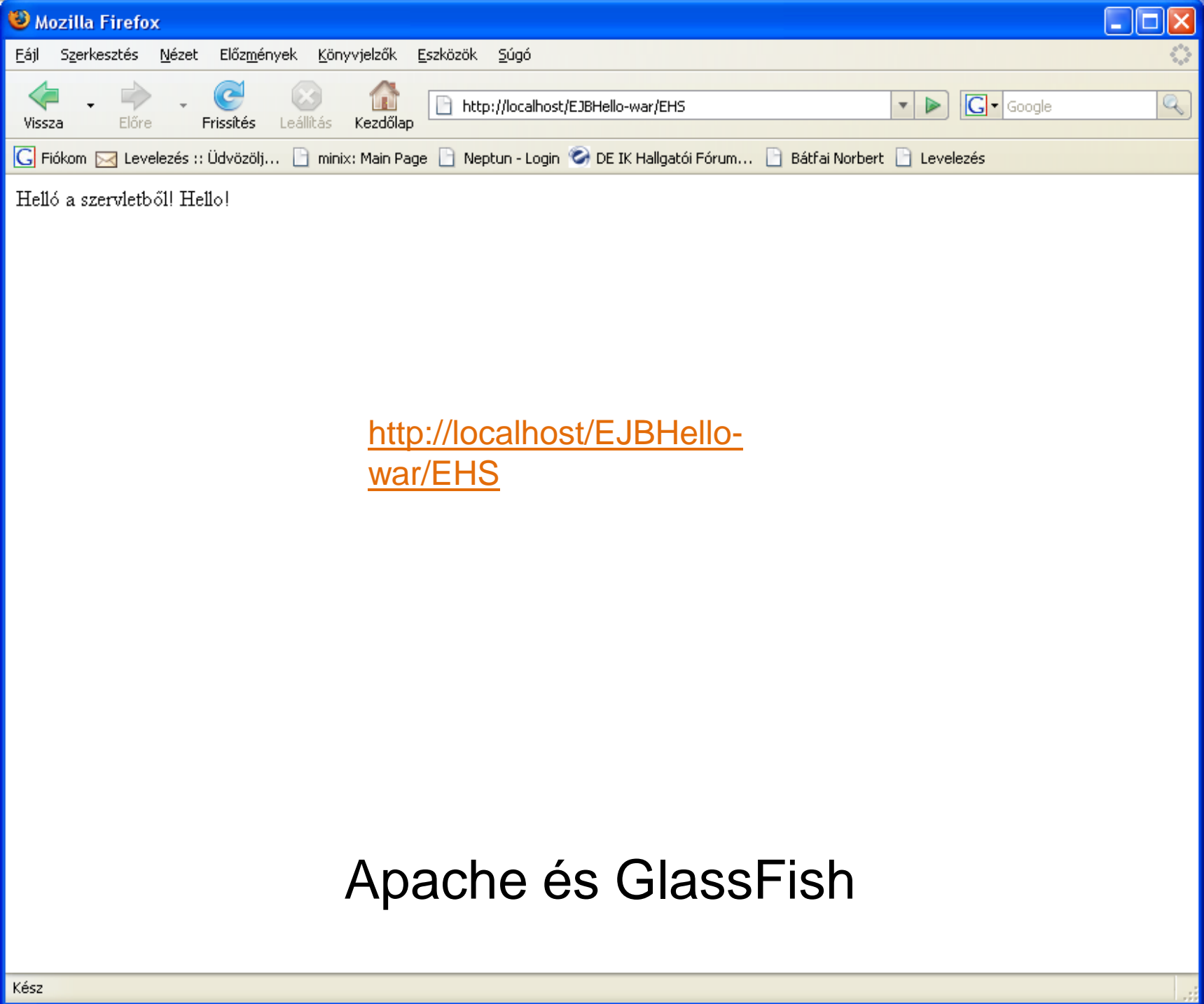
```
JkMount /EJBHello-war/* worker1
```

...

- Tomcat-ből a tomcat-ajp.jar a c:\glassfish\lib-be
- c:\glassfish\domains\domain1\config\domain.xml-be:
`<jvm-options>-Dcom.sun.enterprise.web.connector.enableJK=8009</jvm-`

Apache és GlassFish





<http://localhost/EJBHello-war/EHS>

Apache és GlassFish

Log Viewer - Google Chrome
http://localhost:4848/logViewer/logViewer.jsf#options

Log Viewer

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: **Log File:**

Timestamp
 Most Recent
 Specific Range:

Log Level: **Do not include more severe messages**

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

[Search](#) [Close](#)

[Modify Search](#)

Apache és GlassFish

Instance: server
Log File Directory: C:\glassfish\domains\domain1\logs

Log Viewer Results (40)

Records before 3685 | Log File Record Numbers 3685 through 3724 | Records after 3724 |

Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pair
3724	INFO	WebModule[EJBHello-war] ServletContext.log():EHHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 10:49:10.421	_ThreadID=20;_Thr
3723	INFO	Helló a logba a beanbőí(details)	elso.EHelloBean	Nov 5, 2008 10:49:10.421	_ThreadID=20;_Thr
3722	INFO	JBI framework startup complete. (details)	com.sun.jbi.framework	Nov 5, 2008 10:48:33.734	_ThreadID=22;_Thr
3721	INFO	Successfully processed 0 Service Assemblies during startup. (details)	com.sun.jbi.management.DeploymentService	Nov 5, 2008 10:48:33.734	_ThreadID=22;_Thr
3720	INFO	Initializing Sun's JavaServer Faces implementation (1.2_04-b20-p03) for context "(details)"	javax.enterprise.resource.webcontainer.jsf.config	Nov 5, 2008 10:48:09.984	_ThreadID=21;_Thr

Terhelés elosztás

- workers.properties fájl szerkesztése:

...

```
worker.list=loadbalancer
```

...

```
worker.worker1.host=iam043.inf.unideb.hu a többi ua.
```

...

```
worker.worker2.host=iam029.inf.unideb.hu a többi ua., mint worker1
```

...

```
worker.loadbalancer.type=lb
```

```
worker.loadbalancer.balance_workers=worker1,worker2
```

...

- Az Apache conf/httpd.conf szerkesztése:

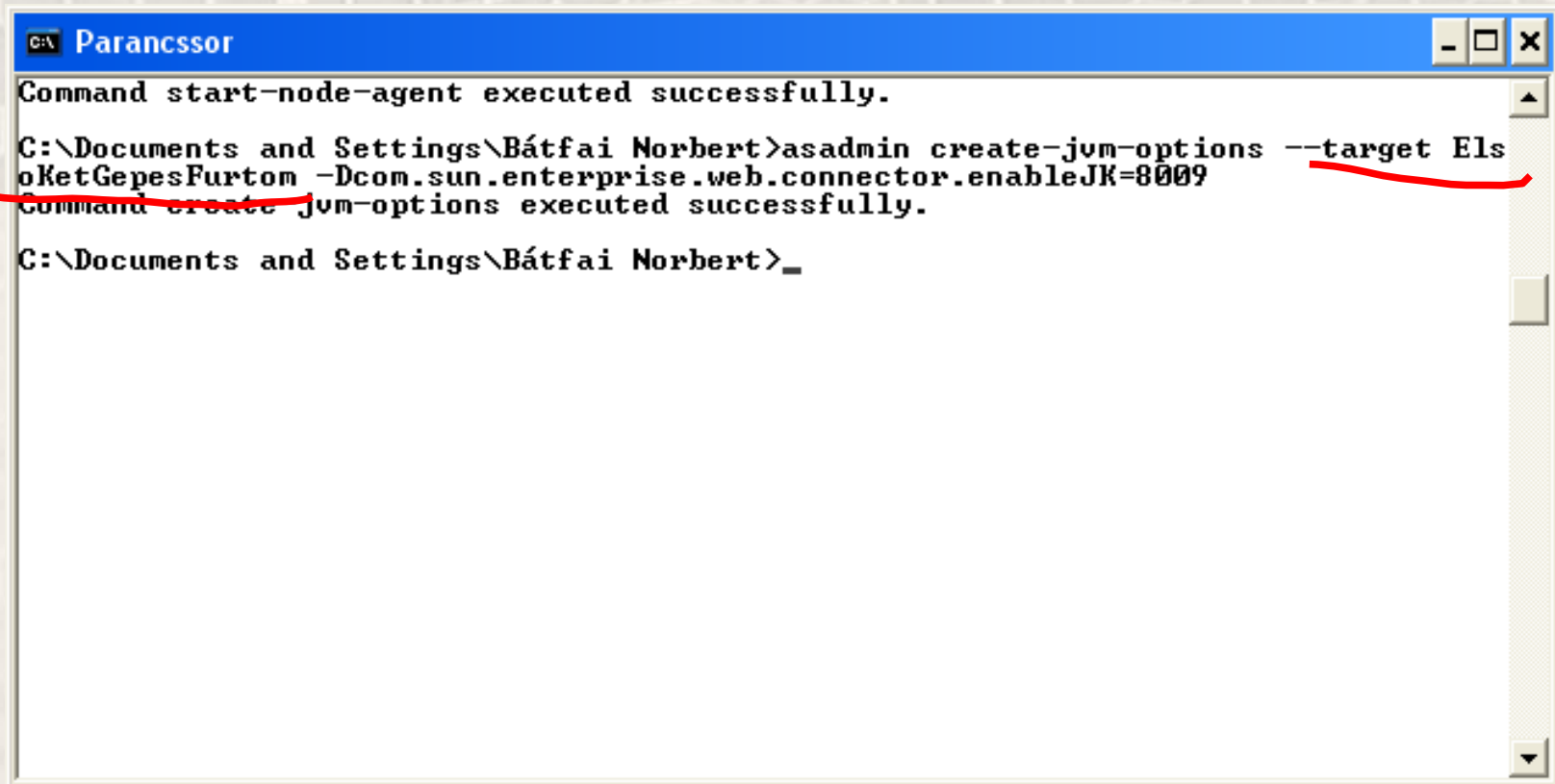
...

```
JkMount /EJBHello-war/* loadbalancer
```

...

Terhelés elosztás

C:\Documents and Settings\Bátfai Norbert> **asadmin create-jvm-options --target Els
oKetGepesFurtom -Dcom.sun.enterprise.web.connector.enableJK=8009**
Command create-jvm-options executed successfully.



```
Parancssor
Command start-node-agent executed successfully.
C:\Documents and Settings\Bátfai Norbert>asadmin create-jvm-options --target Els
oKetGepesFurtom -Dcom.sun.enterprise.web.connector.enableJK=8009
Command create-jvm-options executed successfully.
C:\Documents and Settings\Bátfai Norbert>_
```



Vissza



Előre



Frissítés



Leállítás



Kezdőlap



Google



Helló a szervletből! Hello!

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: Az_jam043_as Log File: server.log

Timestamp
 Most Recent
 Specific Range:

Log Level: DEFAULT [INFO] Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_jam043_as

Log File Directory: C:\glassfish\nodeagents\iam043\Az_jam043_as\logs

Log Viewer Results (40)

Records before 2232

Log File Record Numbers 2232 through 2271

Records after 2271



Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pairs
2271	INFO	WebModule[EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 12:54:54.250	_ThreadId=21;_Threa Processor3;
2270	INFO	Helló a logba a beanbóli(details)	also.EHelloBean	Nov 5, 2008 12:54:54.234	_ThreadId=21;_Threa Processor3;
2269	INFO	WebModule[EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 12:54:53.765	_ThreadId=23;_Threa Processor2;
2268	INFO	Helló a logba a beanbóli(details)	also.EHelloBean	Nov 5, 2008 12:54:53.765	_ThreadId=23;_Threa Processor2;
				Nov 5, 2008	ThreadId=??_Threa

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: Log File:

Timestamp
 Most Recent
 Specific Range:

Log Level: Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_iam029_es

Log File Directory: C:\glassfish\nodeagents\iam029\Az_iam029_es\logs

Log Viewer Results (40)

Records before 2099

Log File Record Numbers 2099 through 2138

Records after 2138



Record Number	Log Level	Message	Logger	
2138	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	N 1:
2137	INFO	Helló a logba a beanbó!l(details)	also.EHelloBean	N 1:
2136	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	N 1:
2135	INFO	Helló a logba a beanbó!l(details)	also.EHelloBean	N 1:
2134	INFO	JBI framework startup complete.(details)	com.sun.jbi.framework	N 1:



Vissza



Előre



Frissítés



Leállítás



Kezdőlap

http://matyi.inf.unideb.hu/EJBHello-war/EHS

Google

Helló a szervletből! Hello!

Egyszer



Vissza



Előre



Frissítés



Leállítás



Kezdőlap

http://matyi.inf.unideb.hu/EJBHello-war/EHS

Google

Helló a szervletből! Hello!

Még egyszer

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: **Az_jam043_as** Log File: server.log

Timestamp
 Most Recent
 Specific Range:

Log Level: **DEFAULT [INFO]** Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_jam043_as

Log File Directory: C:\glassfish\nodeagents\iam043\Az_jam043_as\logs

Log Viewer Results (40)

Records before 2234

Log File Record Numbers 2234 through 2273

Records after 2273



Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pairs
2273	INFO	WebModule[EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 12:57:23.406	_ThreadId=21;_Threa Processor3;
2272	INFO	Helló a logba a beanbó(details)	also.EHelloBean	Nov 5, 2008 12:57:23.406	_ThreadId=21;_Threa Processor3;
2271	INFO	WebModule[EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 12:54:54.250	_ThreadId=21;_Threa Processor3;
2270	INFO	Helló a logba a beanbó(details)	also.EHelloBean	Nov 5, 2008 12:54:54.234	_ThreadId=21;_Threa Processor3;
		WebModule[F.IRHello-war]			

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: Az_jam029_es Log File: server.logTimestamp
 Most Recent
 Specific Range:Log Level: DEFAULT [INFO] Do not include more severe messages

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_jam029_es

Log File Directory: C:\glassfish\nodeagents\jam029\Az_jam029_es\logs

Log Viewer Results (40)

Records before 2101

Log File Record Numbers 2101 through 2140

Records after 2140



Record number	Log Level	Message	Logger	
2140	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	N 1:
2139	INFO	Helló a logba a beanböl(details)	elso.EHelloBean	N 1:
2138	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	N 1:
2137	INFO	Helló a logba a beanböl(details)	elso.EHelloBean	N 1:
2136	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	N 1:

Agresszívebb tesztelés

```
public class LetoltURL {  
    public static void main(String[] args) {  
  
        for (int i = 0; i < 100; ++i) {  
            try {  
                java.net.URL url =  
                    new java.net.URL(  
                        "http://matyi.inf.unideb.hu/EJBHello-war/EHS");  
                java.io.BufferedReader br = new java.io.BufferedReader(  
                    new java.io.InputStreamReader(url.openStream()));  
                System.out.println(br.readLine());  
                System.out.println(br.readLine());  
            } catch (Exception e) {  
                e.printStackTrace();  
            }  
        }  
    }  
}
```

18:6 INS

Output - LetoltURL (run)

```
> HellÅi a szervletbÍl!  
Hello!  
HellÅi a szervletbÍl!  
Hello!  
BUILD SUCCESSFUL (total time: 1 second)
```

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: **Log File:**

Timestamp
 Most Recent
 Specific Range:

Log Level: **Do not include more severe messages**

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_jam043_as

Log File Directory: C:\glassfish\nodeagents\jam043\Az_jam043_as\logs

Log Viewer Results (40)

Records before 4558

Log File Record Numbers 4558 through 4597

Records after 4597



Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pairs
4597	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 13:41:54.250	_ThreadID=21;_ThreadName=TP-Processor3;
4596	INFO	Helló a logba a beanbó!l(details)	elso.EHelloBean	Nov 5, 2008 13:41:54.250	_ThreadID=21;_ThreadName=TP-Processor3;
4595	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 13:41:54.234	_ThreadID=21;_ThreadName=TP-Processor3;
4594	INFO	Helló a logba a beanbó!l(details)	elso.EHelloBean	Nov 5, 2008 13:41:54.234	_ThreadID=21;_ThreadName=TP-Processor3;
4593	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló	javax.enterprise.system.container.web	Nov 5, 2008 13:41:54.234	_ThreadID=21;_ThreadName=TP-Processor3;

Log Viewer

Search

Close

View, search, and filter a server log file using basic and advanced options. Refer to the Log Levels page for information about log levels you can filter here.

[Advanced Search](#)

Search Criteria

Instance Name: **Log File:**

Timestamp
 Most Recent
 Specific Range:

Log Level: **Do not include more severe messages**

Log entries are limited to those stored in the log file. Set appropriate log level in the Log Level page to ensure data is logged.

Search

Close

[Modify Search](#)

Instance: Az_jam029_es

Log File Directory: C:\glassfish\nodeagents\jam029\Az_jam029_es\logs

Log Viewer Results (40)

Records before 4379

Log File Record Numbers 4379 through 4418

Records after 4418



Record Number	Log Level	Message	Logger	Timestamp	Name-Value Pairs
4418	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 13:41:49.375	_ThreadId=22;_ThreadName=TP-Processor3;
4417	INFO	Helló a logba a beanbó!l(details)	elso.EHelloBean	Nov 5, 2008 13:41:49.375	_ThreadId=22;_ThreadName=TP-Processor3;
4416	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló a logba(details)	javax.enterprise.system.container.web	Nov 5, 2008 13:41:49.359	_ThreadId=22;_ThreadName=TP-Processor3;
4415	INFO	Helló a logba a beanbó!l(details)	elso.EHelloBean	Nov 5, 2008 13:41:49.359	_ThreadId=22;_ThreadName=TP-Processor3;
4414	INFO	WebModule[/EJBHello-war] ServletContext.log():EHelloServlet: Helló	javax.enterprise.system.container.web	Nov 5, 2008 13:41:49.345	_ThreadId=22;_ThreadName=TP-Processor3;

További példák

Apache Geronimo

<http://geronimo.apache.org/>

Telepítés/indítás

```
C:\ Parancssor - geronimo run
C:\geronimo-tomcat6-javaee5-2.1.3\bin>geronimo run
Using GERONIMO_BASE: C:\geronimo-tomcat6-javaee5-2.1.3
Using GERONIMO_HOME: C:\geronimo-tomcat6-javaee5-2.1.3
Using GERONIMO_TMPDIR: var\temp
Using JRE_HOME: c:\Program Files\Java\jdk1.6.0_10\jre
Booting Geronimo Kernel (in Java 1.6.0_10)...
Starting Geronimo Application Server v2.1.3
[*****] 25% 3s Loading org.apache.ger...
```

```
C:\ Parancssor
Microsoft Windows XP [verziószám: 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Bátfai Norbert>cd ..

C:\Documents and Settings>cd ..

C:\>cd geronimo-tomcat6-javaee5-2.1.3\bin

C:\geronimo-tomcat6-javaee5-2.1.3\bin>start-server_
```

Telepítés

```
C:\ Parancssor - geronimo run
WAR: org.apache.geronimo.plugins/activemq-console-tomcat/2.1.3/car
WAR: org.apache.geronimo.plugins/debugviews-console-tomcat/2.1.3/car
WAR: org.apache.geronimo.plugins/mconsole-tomcat/2.1.3/car
WAR: org.apache.geronimo.plugins/plancreator-console-tomcat/2.1.3/car
WAR: org.apache.geronimo.plugins/plugin-console-tomcat/2.1.3/car
WAR: org.apache.geronimo.plugins/sysdb-console-tomcat/2.1.3/car

Web Applications:
/
/CAHelper
/activemq
/console
/console-base
/debug-views
/dojo
/dojo/0.4
/juddi
/monitoring
/plan-creator
/plugin
/remote-deploy
/system-database

Geronimo Application Server started
```




Welcome!

Apache Tomcat/6.0.18

If you're seeing this page via a web browser, it means you've setup Apache Geronimo™ successfully. Congratulations!

As you may have guessed by now, this is the default home page for Geronimo. If you're seeing this page, and you think you should be, then either you're a user who has arrived at new installation of Geronimo, or you're an administrator who hasn't got his/her setup quite right. If you need help setting up or administering Geronimo, see the [Geronimo Documentation](#).

If you'd like to get started configuring Geronimo and the applications and services available in Geronimo, you might start with the Geronimo [Admin Console](#) (if you have not yet configured this the admin username is "system" with "manager").

Would you like your application to appear at this URL?

To set the context root for a web application, you can write a Geronimo deployment plan that uses the context-root element to specify the URL prefix used to reach that application. If you specify a context root of "/" then the application will appear at this URL. However, you'll need to stop this small Welcome application first!

Your web deployment plan should look like this, and you can either pack it into the WAR at WEB-INF/geronimo-web.xml or provide it as a separate argument to the deploy tool.

```
<web-app xmlns="http://geronimo.apache.org/xml/ns/j2ee/web-2.0"
  xmlns:dep="http://geronimo.apache.org/xml/ns/deployment-1.2">

  <dep:environment>
    <dep:moduleId>
      <dep:groupId>
        <dep:artifactId>
          <dep:version>
        </dep:moduleId>
    </dep:environment>
    <context-root></context-root>
  </web-app>
```

http://localhost:8080

Then you can stop this application and deploy yours from the [Admin Console](#) or from the command line with a sequence of commands like this:

```
deplov.[bat|sh] stop org.apache.geronimo.configs/welcome-tomcat/{geronimoVersion}/ca
```

Administration
[Console](#)

Documentation
[FAQ](#)
[Wiki](#)
[Geronimo Documentation](#)
[Additional Documentation](#)

Geronimo Online
[The Geronimo Home Page](#)
[Problem Tracking Database](#)
[Users Mailing List Archive](#)
[Developers Mailing List Archive](#)
[Geronimo IRC chat](#)

Geronimo Examples
[Geronimo Sample Applications](#)



Log In

Log in to the Geronimo Console

Username: Password:

manager

Welcome to the Geronimo™ Console

GERONIMO™ is a Java-certified, production-grade platform designed to allow developers to rapidly deploy and manage their applications. The result is an integrated, highly functional application platform that leverages the latest innovations from the open source community and simplifies application deployment and maintenance.

Geronimo™ has integrated the following components:

- Application server (Apache Geronimo)
- Web server and servlet engine (Tomcat)
- Web server and servlet engine (Jetty)
- JSP compiler (Jasper)
- JAX-RPC Web Services engine (Apache Axis)
- JAX-WS Web Services engine (Apache Axis2)
- JAX-WS Web Services engine (Apache CXF)
- Relational database (Apache Derby)
- Messaging (ActiveMQ)
- User management services
- Centralized administration console

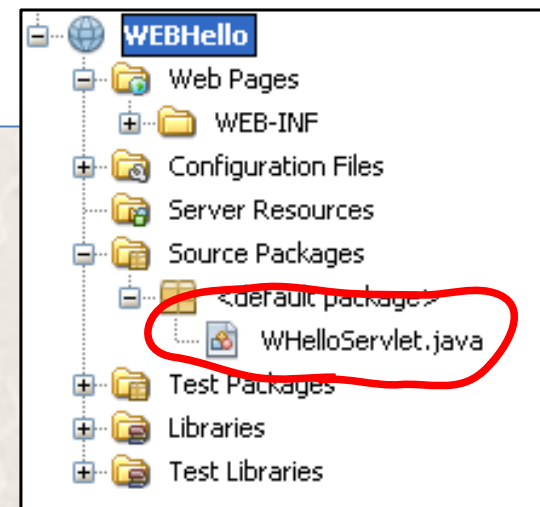
```
public class WHelloServlet extends javax.servlet.http.HttpServlet {

    @Override
    protected void doGet(javax.servlet.http.HttpServletRequest request,
        javax.servlet.http.HttpServletResponse response)
        throws javax.servlet.ServletException, java.io.IOException {

        log("Helló a logba");

        response.setContentType("text/html;charset=UTF-8");
        java.io.PrintWriter out = response.getWriter();
        out.println("Helló a szervletből!");

    }
}
```



Az első Web alkalmazás

(a NetBeans-ben New project.../Java Web/Web apps)

Geronimo Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

http://localhost:8080/console/portal/Applications/Deploy%20New

APACHE GERONIMO

Server Console

Log Out

Console Navigation

- Welcome
- Server
 - Information
 - Java System Info
 - Server Logs
 - Shutdown
 - Web Server
 - Thread Pools
 - Apache HTTP
 - JMS Server
 - Monitoring
- Services
 - Repository
 - Database Pools
 - JMS Resources
- Applications
 - Web App WARs
 - System Modules
 - Application EARs
 - EJB JARs
 - J2EE Connectors
 - App Clients
 - Deploy New**
 - Plugins
 - Plan Creator
- Security

Install New Applications

Archive: C:\Documents and Settings\Tallózás...

Plan: Tallózás...

Start app after install

Redeploy application

Install

c:\Documents and Settings\Bátfai Norbert\
Dokumentumok\NetBeansProjects\
WEBHello\dist\WEBHello.war

Kész

Geronimo Console - Mozilla Firefox

Fájl Szerkesztés Nézet Előzmények Könyvjelzők Eszközök Súgó

Vissza Előre Frissítés Leállítás Kezdőlap

http://localhost:8080/console/portal/Applications/Web%20App%20WARs

Fiókom Levelezés :: Üdvözlőj... minix: Main Page Neptun - Login DE IK Hallgatói Fórum... Bátfai Norbert

Geronimo Console Apache Tomcat/6.0.18 - Error report http://localhost:8080/WEBHello/WHs

APACHE GERONIMO Server Console Log Out

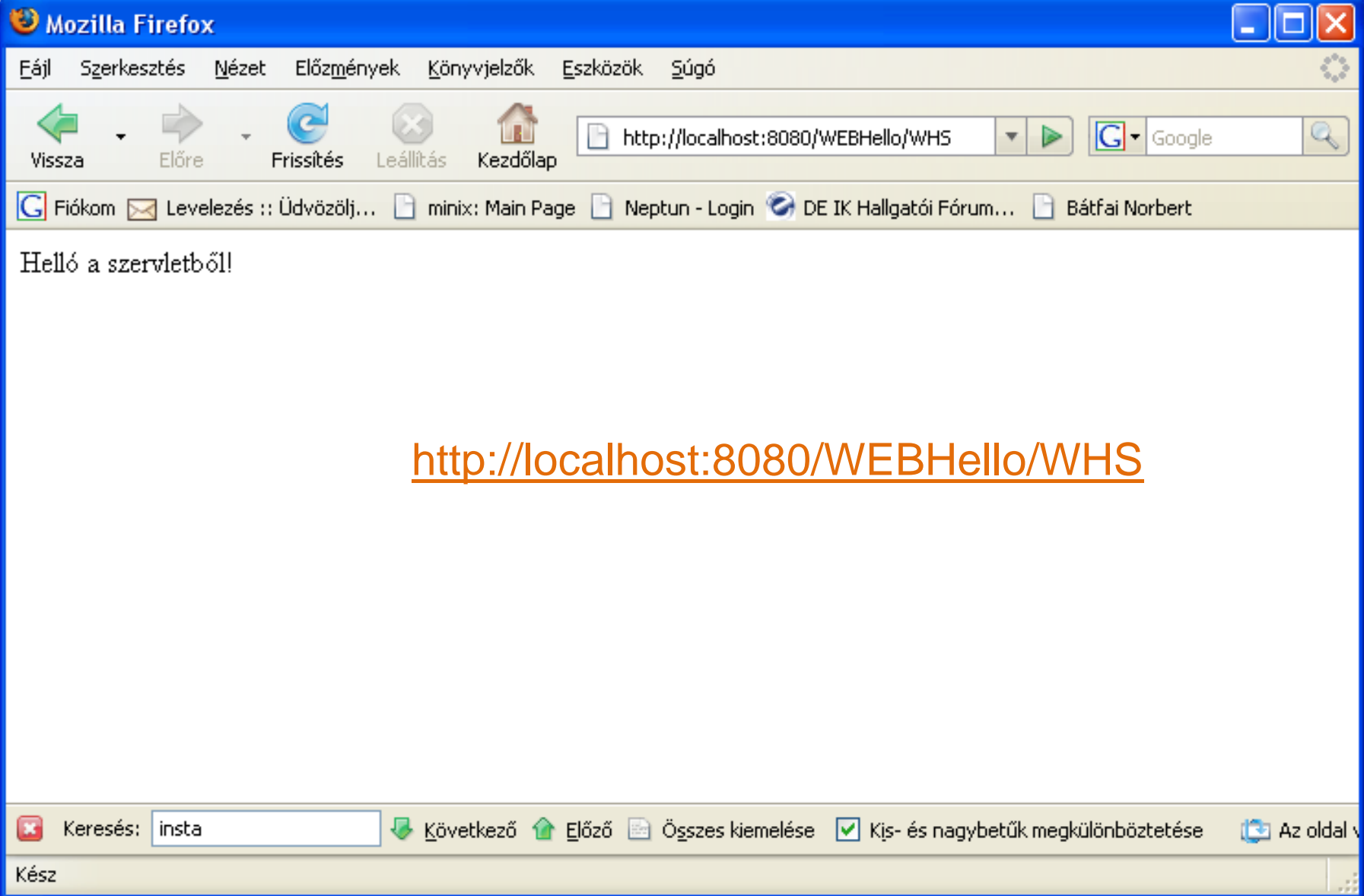
Console Navigation

- Welcome
- Server
 - Information
 - Java System Info
 - Server Logs
 - Shutdown
 - Web Server
 - Thread Pools
 - Apache HTTP
 - JMS Server
 - Monitoring
- Services
 - Repository
 - Database Pools
 - JMS Resources
 - Applications
 - Web App WARs
 - System Modules
 - Application EARs
 - EJB JARs
 - J2EE Connectors
 - App Clients
 - Deploy New
 - Plugins
 - Plan Creator
- Security
 - Users and Groups
 - Keystores
 - Certificate Authority

Installed Web Applications

- Expert User (enable all actions on Geronimo Provided Components)
- Show parent and child components

Component Name	URL	State	Commands		
default/WEBHello/1225458878796/war	/WEBHello	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/ca-helper-tomcat/2.1.3/car	/ca-helper	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/dojo-legacy-tomcat/2.1.3/car	/dojo/0.4	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/dojo-tomcat/2.1.3/car	/dojo	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/remote-deploy-tomcat/2.1.3/car	/remote-deploy	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/uddi-tomcat_uddi-tomcat/2.1.3/car	/juddi	running	Stop	Restart	Uninstall
org.apache.geronimo.configs/welcome-tomcat/2.1.3/car	/	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/activemq-console-tomcat/2.1.3/car	/activemq	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/console-tomcat_portal-driver.war/2.1.3/car	/console	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/console-tomcat_base-portlets.war/2.1.3/car	/console-base	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/debugviews-console-tomcat/2.1.3/car	/debug-views	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/mconsole-tomcat/2.1.3/car	/monitoring	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/plancreator-console-tomcat/2.1.3/car	/plan-creator	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/plugin-console-tomcat/2.1.3/car	/plugin	running	Stop	Restart	Uninstall
org.apache.geronimo.plugins/sysdb-console-tomcat/2.1.3/car	/system-database	running	Stop	Restart	Uninstall



<http://localhost:8080/WEBHello/WHS>

További példák

JBoss.org: Community

<http://www.jboss.org/>

„Te kit választanál?”

Java EE

[e

Product	Vendor	Edition	Release Date	Java EE Compatibility	Servlet Spec	JSP Spec	License
GlassFish AS	GlassFish Community	3.1	2011-02-28	6	3.0	2.2	Common Development and Distribution License/GPL
JBoss AS	Red Hat	7.0.2.Final	2011-09-22	see ³	3.0	2.2	LGPL
Siwpas	MechSoft	2.0.0	2011-07-29	see ²	3.0	2.2	Proprietary
Sun JSAS	Sun Microsystems	9.1	2007-09-17	5	2.5	2.1	Free of charge, no changes allowed
Geronimo	ASF	2.2.1	2010-12-11	5	2.5	2.1	Apache License
WebSphere Application Server	IBM	8.0.0.0	2011-06-17	6	3.0	2.2	Proprietary

http://en.wikipedia.org/wiki/Comparison_of_application_servers

Mindig aktuális kérdés

2006-ból

JBoss, Geronimo, or Tomcat?

Three open source Java application servers compared

<http://www.javaworld.com/javaworld/jw-12-2007/jw-12-appservers.html>

2010-ből

Comparing Oracle GlassFish Server and JBoss: Which Application Server Is Right for You?

<http://www.oracle.com/us/products/middleware/application-server/oracle-glassfish-server/comparing-glassfish-jboss-wp-117118.pdf>

Labor – JUnit tesztelés

<http://www.inf.unideb.hu/~nbatfai/mircsource/GoldenTeamFC-0.0.3-project.zip>

```
Command Prompt
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Norbi>cd GoldenTeamFC-0.0.3
C:\Users\Norbi\GoldenTeamFC-0.0.3>mvn test

Command Prompt
Downloaded: http://repo1.maven.org/maven2/org/apache/maven/surefire/surefire-junit4/2.5/surefire-junit4-2.5.jar (12 KB at 15.6 KB/sec)
Downloaded: http://repo1.maven.org/maven2/junit/junit/4.0/junit-4.0.jar (104 KB at 104.8 KB/sec)
[INFO] Surefire report directory: C:\Users\Norbi\GoldenTeamFC-0.0.3\target\surefire-reports

-----
T E S T S
-----
Running hu.fersml.magyarfc.VilagmodellTest
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.103 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 4.803s
[INFO] Finished at: Sun Nov 27 12:47:30 CET 2011
[INFO] Final Memory: 9M/23M
[INFO] -----
C:\Users\Norbi\GoldenTeamFC-0.0.3>_
```

Labor – JUnit tesztelés

```
[GoldenTeamFC-0.0.3]
[src]
package hu.fersml.magyarfc;

/**
 * Világmodell gps teszt. Megnézi, hogy nem rontottuk-e el a számolgotást.
 *
 * @author Bاتفai Norbert
 * @version 0.0.1, 11/09/11
 * @since Golden Team FC 0.0.3
 */
public class VilagmodellTest {

    Vilagmodell vm = new Vilagmodell();

    @org.junit.Test
    public void testGps() {

        vm.setBecsultX(0.0);
        vm.setBecsultY(0.0);

        vm.gps(-52.44, -33.97, 24.96, -52.42, -6.95, 23.2);

        org.junit.Assert.assertEquals(-34.79708790936931, vm.getBecsultX(), 0.0001);
        org.junit.Assert.assertEquals(-18.904554339075222, vm.getBecsultY(), 0.0001);

    }
}
```

Labor – JUnit tesztelés

```
@org.junit.Test
public void testGps() {
    ...
    vm.setBeccultX(0.0);
    vm.setBeccultY(0.0);

    vm.gps(-52.44, -33.97, 24.96, -52.42, -6.95, 23.2);

    org.junit.Assert.assertEquals(-34.79708790936931, vm.getBeccultX(), 0.0001);
    org.junit.Assert.assertEquals(-18.904554339075222, vm.getBeccultY(), 0.0001);
}
```

static void	<u>assertEquals</u> (double expected, double actual) Deprecated. Use <code>assertEquals(double expected, double actual, double epsilon)</code> instead.
static void	<u>assertEquals</u> (double expected, double actual, double delta) Asserts that two doubles or floats are equal to within a positive delta.
static void	<u>assertEquals</u> (long expected, long actual) Asserts that two longs are equal.
static void	<u>assertEquals</u> (java.lang.Object[] expecteds, java.lang.Object[] actuals) Deprecated. use <code>assertArrayEquals</code>
static void	<u>assertEquals</u> (java.lang.Object expected, java.lang.Object actual) Asserts that two objects are equal.
static void	<u>assertEquals</u> (java.lang.String message, double expected, double actual) Deprecated. Use <code>assertEquals(String message, double expected, double actual, double delta)</code>
static void	<u>assertEquals</u> (java.lang.String message, double expected, double actual, double delta) Asserts that two doubles or floats are equal to within a positive delta.
static void	<u>assertEquals</u> (java.lang.String message, long expected, long actual) Asserts that two longs are equal.

Labor / Otthon / Servlet 3.0

```
/**
 * Osztály ... szervlet web.xml nélkül
 * Tomcat 7 vagy GlassFish 3-tól (aki
 * tudja a Servlet 3.0-t)
 *
 * @author Norbi
 */
@WebServlet (
    name = "PeldaServlet",
    displayName="Pelda Szervlet",
    urlPatterns = {"/PeldaSzervletURLPattern"},
    loadOnStartup=1
)
public class PeldaSzervlet extends javax.servlet.http.HttpServlet {

    protected void processRequest(javax.servlet.http.HttpServletRequest request,
        javax.servlet.http.HttpServletResponse response)
        throws javax.servlet.ServletException, java.io.IOException {
        response.setContentType("text/html");
        java.io.PrintWriter browser = response.getWriter();
        try {
            browser.println("<html>");
            browser.println("<head>");
            browser.println("<title>Servlet PeldaSzervlet</title>");
            browser.println("</head>");
            browser.println("<body>");
            browser.println("<h1>Hello, Vilag!</h1>");
            browser.println("</body>");
            browser.println("</html>");
        }
    }
}
```

Labor / Otthon

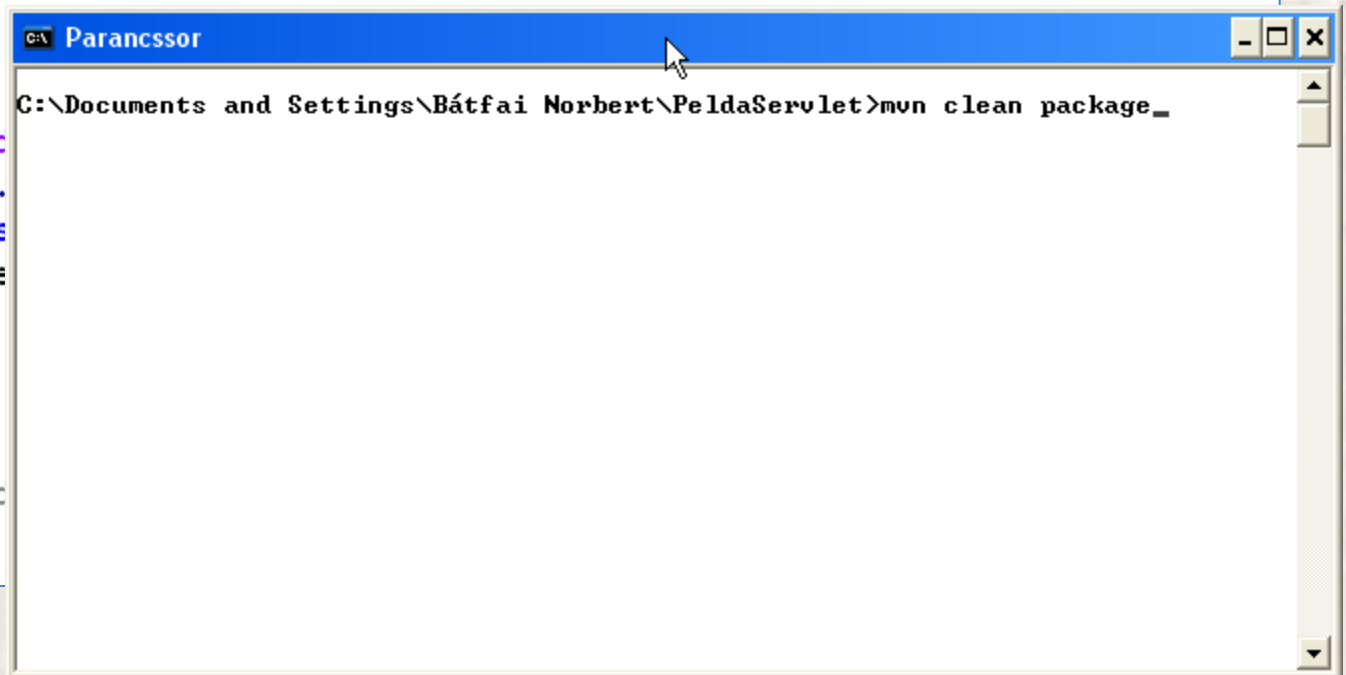
```
        browser.println("</html>");

    } finally {
        browser.close();
    }
}

@Override
protected void doGet(javax.servlet.http.HttpServletRequest request,
    javax.servlet.http.HttpServletResponse response)
    throws javax.servlet.ServletException, java.io.IOException {
    processRequest(request, response);
}

@Override
protected void
    javax.
    throws
    processReque
}

@Override
public String
    return "Pelc
}
```



The screenshot shows a terminal window with a blue title bar containing the text 'Parancssor'. The terminal content shows a command prompt at 'C:\Documents and Settings\Bátfai Norbert\PeldaServlet>' followed by the command 'mvn clean package_'. A mouse cursor is visible over the terminal window.

Labor / Otthon

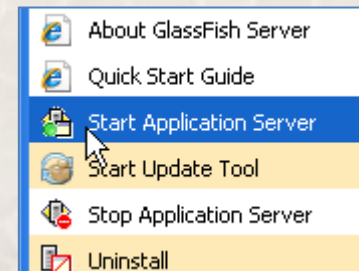
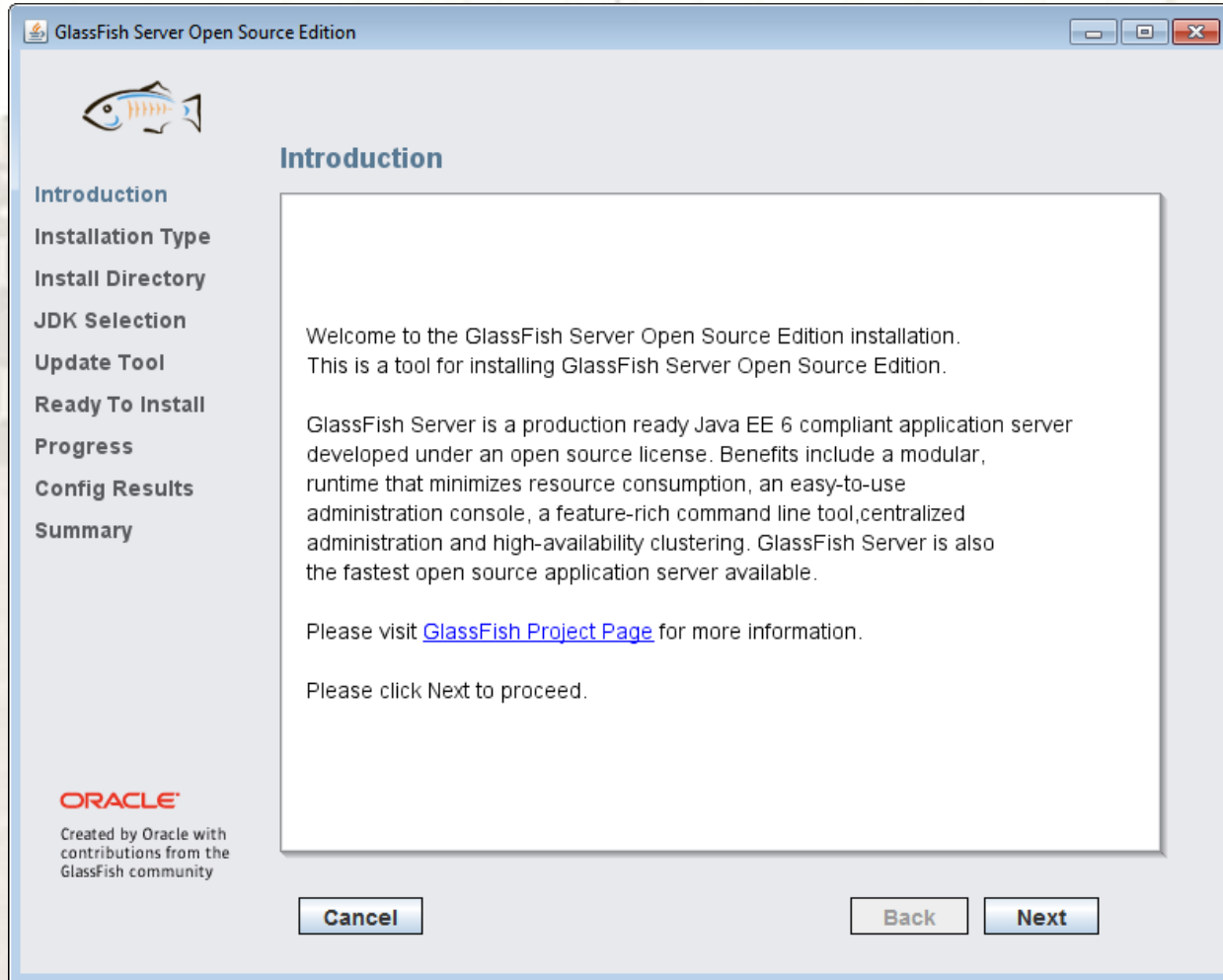
```
<?xml version="1.0" encoding="UTF-8"?>
<!--
pom.xml

A Prog2 hallgatóknak Servletes Maven projekt.

-->
<project xmlns="http://maven.apache.org/POM/4.0.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://ma
  <modelVersion>4.0.0</modelVersion>
  <groupId>hu.deikmi.prog2</groupId>
  <artifactId>PeldaServlet</artifactId>
  <packaging>war</pa
  <version>0.0.1</ve
  <name>Példa szervl
  <url>http://...</u
  <description>...</
  <organization>
    <name>Batfai Nor
    <url>http://www.
  </organization>
  <licenses>
    <license>
      <name>GNU GPL v3</nam
  </license>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-war-plugin</artifactId>
    <version>2.1.1</version>
    <configuration>
      <failOnMissingWebXml>>false</failOnMissingWebXml>
    </configuration>
  </plugin>
  <groupId>javax</groupId>
  <artifactId>javaee-web-api</artifactId>
  <version>6.0</version>
  <scope>provided</scope>
  </dependency>
</dependencies>
```

Labor / Otthon / GlassFish 3

<http://glassfish.java.net/downloads/3.1.1-final.html>



Labor / Otthon

```
Command Prompt
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Norbi>cd ..
C:\Users>cd ..
C:\>cd glassfish3
C:\glassfish3>cd bin
C:\glassfish3\bin>asac
```

Home About...

User: admin | Domain: domain1 | Server: localhost

GlassFish™ Server Open Source Edition

Common Tasks

- Domain
- server (Admin Server)
- Clusters
- Standalone Instance
- Nodes
- Applications**
- Lifecycle Modules
- Resources
 - JDBC

Deploy Applications or Modules

Specify the location of the application or module to deploy. An application can be in a packaged file

Location: **Packaged File to Be Uploaded to the Server**

Local Packaged File or Directory That Is Accessible from GlassFish Server

Type: *

Context Root:
Path relative to server's base URL.

Application Name: *

Virtual Servers:

Labor / Otthon

User: admin | Domain: domain1 | Server: localhost

GlassFish™ Server Open Source Edition



Common Tasks

- Domain
- server (Admin Server)
- Clusters
- Standalone Instances
- Nodes
- Applications**
- Lifecycle Modules
- Resources
 - JDBC

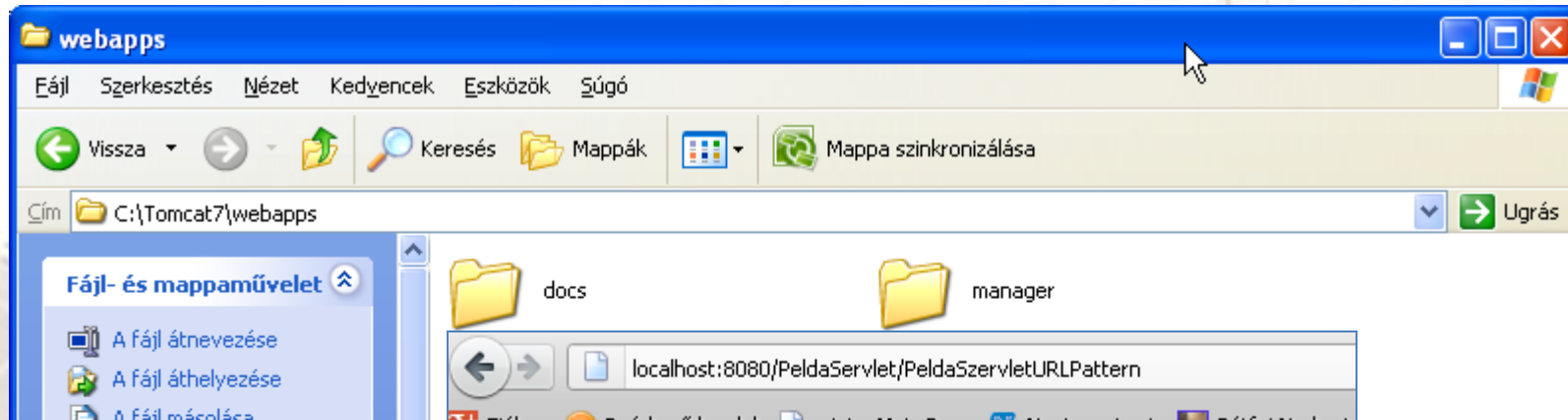
Applications

Applications can be enterprise or web applications, or various kinds of modules. Restart an application that the application or module is enabled on.

Deployed Applications (1)

<input checked="" type="checkbox"/>	<input type="checkbox"/>	Deploy...	Undeploy	Enable	Disable	Filter: <input type="text"/>
	Name	Enabled	Engines			
<input type="checkbox"/>	PeldaServlet-0.0.1	<input checked="" type="checkbox"/>	web			

Labor / Otthon / Tomcat 7



Fiókom Beérkező levelek minix: Main Page Neptun - Login Bátfai Norbert

Hello, Vilag!

Applications

Path	Version	Context	WAR	AutoDeploy	Commands
/	None specified			Q	Start Stop Reload Expire sessions with
/PeldaServlet	None specified		true	Q	Start Stop Reload Expire sessions with
/docs	None specified	Tomcat Documentation	true	Q	Start Stop Reload Expire sessions with
/manager					Start Stop Reload Un

WAR file to deploy

PeldaServlet.
WAR fájl
Módosítva: 201
27., 21:06

Select WAR file to upload

Tallózás...

Deploy

Laborkártyák



Otthoni opcionális feladat

Saját Atan alapú RCSS csapat fejlesztése: tesztek írása, a projekt gondozása, azaz ripirtok generálása és azok tanulmányozása.

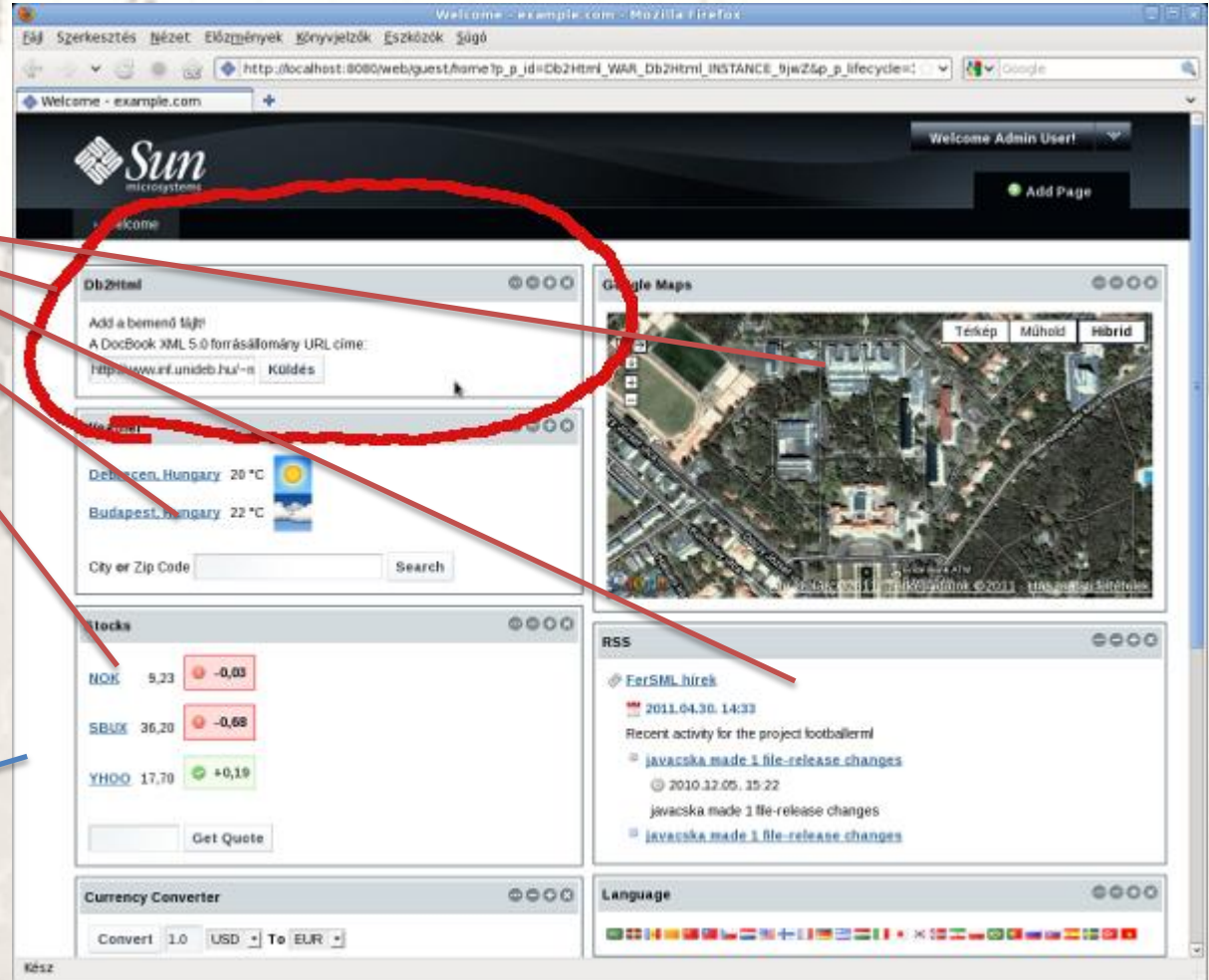
Otthoni opcionális feladat

http://progpater.blog.hu/2011/04/29/drupalosoknak_joomlasoknak_erre_csorogtjak_a_nyalukat

Saját Portlet fejlesztése: a DocBook6-ot (ami DocBook XML validált és XSLT-vel transzformált HTML-be) építsük be egy portletbe!

Portálok, portletek

Portletek



Portál lap

Portálok, portletek

The image displays two overlapping browser windows. The left window shows an application catalog with a sidebar on the left containing categories like Collaboration, Community, Content Management, Entertainment, Finance, Google, News, Sample, Shopping, Social, and World of Web Sites. Under the 'User Portlets' section, 'Db2Html' is highlighted with a red circle. The right window shows a web portal with a Sun Microsystems logo and a 'Welcome Admin User!' message. A red circle highlights a 'Db2Html' portlet. Below it are other portlets: 'Weather' (showing Debrecen, Hungary 20 °C and Budapest, Hungary 22 °C), 'Stocks' (listing NOK, SBUX, and YHOO), 'Google Maps', 'RSS' (Feeds RSS), and 'Currency Converter'.

Application Catalog (Left Window):

- Collaboration
- Community
- Content Management
- Entertainment
- Finance
- Google
- News
- Sample
- Shopping
- Social
- World of Web Sites
- User Portlets
 - Db2Html (highlighted)

Web Portal (Right Window):

- Header: Sun Microsystems, Welcome Admin User!, Add Page
- Db2Html Portlet:
 - Add a bookmark!
 - A DocBook XML 5.0 forrásfomany URL címe: <http://www.url.unideb.hu/> Küldés
- Weather Portlet:
 - Debrecen, Hungary 20 °C
 - Budapest, Hungary 22 °C
 - City or Zip Code: Search
- Stocks Portlet:
 - NOK 9,23 -0,03
 - SBUX 36,20 -0,68
 - YHOO 17,70 +0,19
 - Get Quote
- Google Maps Portlet:
 - Map view: Térkép, Műhold, Hibrid
- RSS Portlet:
 - Feeds RSS
 - 2011.04.30. 14:33
 - Recent activity for the project looballerr!
 - javacska made 1 file-release changes
 - 2010.12.05. 15:22
 - javacska made 1 file-release changes
 - javacska made 1 file-release changes
- Currency Converter Portlet:
 - Convert 1.0 USD To EUR
 - Table:

Currency	British Pound (GBP)	Chinese Yuan (CNY)
GBP	1	0.0922
CNY	10.846	1
- Language Portlet:
 - Language selection icons

Portálok, portletek

Portlet API

Saját
GMaps
Időjárás
Tőzsdei
Hírolvasó
stb...

Portletek

Portlet
konténer

Portál szerver

Web 2.0

Projekt WebSynergy

Liferay Portal Server

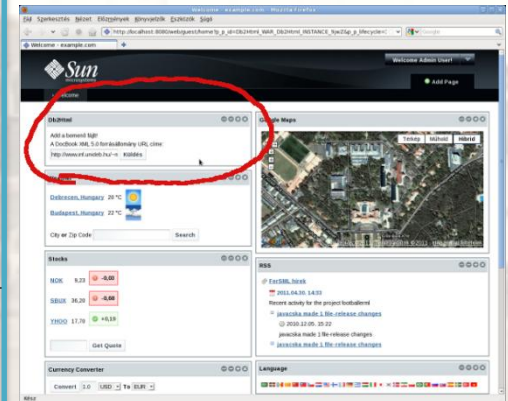
Alkalmazás-
szerver
és adatbázis

Java EE / GlassFish v2 vagy v3

MySQL

OS

GNU/Linux, Solaris, Windows - tetszőleges



Vékony kliens

Portletek

JSR 168 (Portlet speci 1.0) 286 (2.0)

Életciklus

- 1) extends `javax.portlet.GenericPortlet`
- 2) `doView`, `doHelp`, `doEdit`
- 3) `processAction`

Portlet életciklus

Életciklus

1) **doView**, doHelp, doEdit

2) processAction

```
75 public void doView(javax.portlet.RenderRequest request, javax.portlet.RenderResponse response)
76     throws javax.portlet.PortletException, java.io.IOException {
77     response.setContentType("text/html");
78     javax.portlet.PortletRequestDispatcher dispatcher =
79         getPortletContext().getRequestDispatcher("/WEB-INF/jsp/Db2Html_view.jsp");
80     dispatcher.include(request, response);
81 }
```

http://progpater.blog.hu/2011/04/29/drupalosoknak_joomlasoknak_erre_csorogtjak_a_nyalukat

A konkrét példában

The screenshot shows the NetBeans IDE 6.5 interface. The title bar reads "ElsoPortlet - NetBeans IDE 6.5". The menu bar includes File, Edit, View, Navigate, Source, Refactor, Run, Debug, Profile, Versioning, Tools, Window, and Help. The toolbar contains various icons for file operations and development actions.

The left sidebar shows the "Projects" and "Files" views. The "Files" view displays the project structure for "ElsoPortlet", including "Web Pages", "WEB-INF", and "jsp" folders. The "jsp" folder contains "ElsoPortlet_edit.jsp", "ElsoPortlet_help.jsp", and "ElsoPortlet_view.jsp", along with "liferay-display.xml", "liferay-plugin-package.properties", and "liferay-portlet.xml".

The main editor window shows the "ElsoPortlet_view.jsp" file with the following code:

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

<!-- Uncomment below lines to add portlet taglibs to jsp
<%@ page import="javax.portlet.*"%>
<%@ taglib uri="http://java.sun.com/portlet_2_0" prefix="portlet"%>

<portlet:defineObjects />
<%PortletPreferences prefs = renderRequest.getPreferences();%>
-->

<b>
    ElsoPortlet - VIEW MODE
</b>
```

The "ElsoPortlet_view.jsp - Navigator" pane at the bottom left shows a tree view with a single node "b" highlighted, which corresponds to the bolded text in the main editor.

- Add Application**
- Search content (searches as you type).
E
- Admin
- CMS
- Collaboration
- Community
- Entertainment
- Finance
- News
- Sample
- Sun
- Tools
- Undefined
- User Portlets**
- ElsoPortlet **Add**
- World of Project WebSynergy
- Friends **Add**
- Friends' Activities **Add**
- JIRA **Add**
- Map **Add**
- Meetups **Add**
- Members **Add**
- SVN **Add**

Welcome Admin User!

Add Page

Welcome to DDN DDN projects DDN members 2008 Yearbook of DDN

Polls

Add Question

Showing 1 result.

Question	# of Votes	Last Vote Date	Expiration Date	Actions
Ezzel a remek szoftverrel csináljuk a DDn lapjait?	0	Never	Never	

DDN csoportok

Search

Search User Groups

Add User Group

DDN tagok

Search Users

Add User

DDN projektek

- Add Application**
- Search content (searches as you type).
E
- Admin
 - CMS
 - Collaboration
 - Community
 - Entertainment
 - Finance
 - News
 - Sample
 - Sun
 - Tools
 - Undefined
 - User_Portlets
 - ElsoPortlet **Add**
 - World of Project WebSynergy
 - Friends **Add**
 - Friends' Activities **Add**
 - JIRA **Add**
 - Map **Add**
 - Meetups **Add**
 - Members **Add**
 - SVN **Add**

Welcome Admin User!

Add Page

Welcome to DDN DDN projects DDN members 2008 Yearbook of DDN

ElsoPortlet

ElsoPortlet - VIEW MODE

Polls

Add Question

Showing 1 result.

Question	# of Votes	Last Vote Date	Expiration Date
Ezzel a remek szoftverrel csináljuk a DDn lapjait?	0	Never	Never

Actions

DDN csoportok

Search

DDN tagok

Search Users

Advanced >

Welcome Admin User!

+ Add Page

Welcome to DDN DDN projects DDN members 2008 Yearbook of DDN

ElsoPortlet

Return to Full Page

ElsoPortlet - EDIT MODE

Polls

Add Question

Showing 1 result.

Question	# of Votes	Last Vote Date	Expiration Date
----------	------------	----------------	-----------------

Ezzel a remek szoftverrel csináljuk a DDn lapjait?	0	Never	Never
--	---	-------	-------

Actions

DDN csoportok

Search

Search User Groups

Add User Group

DDN tagok

Search Users

Advanced »

Add User

Chat (0)

Welcome!

Welcome to DDN DDN projects DDN members 2008 Yearbook of DDN

ElsőPortlet

ElsőPortlet - VIEW MODE

Polls

Showing 1 result.

Question	# of Votes	Last Vote Date	Expiration Date
Ezzel a remek szoftverrel csináljuk a DDn lapjait?	0	Never	Never

DDN csoportok

Search

Search User Groups

DDN tagok

Search Users

[Advanced >](#)

Nyelvváltás

DDN projektek

Search

Search Communities

Portlet életciklus

Életciklus

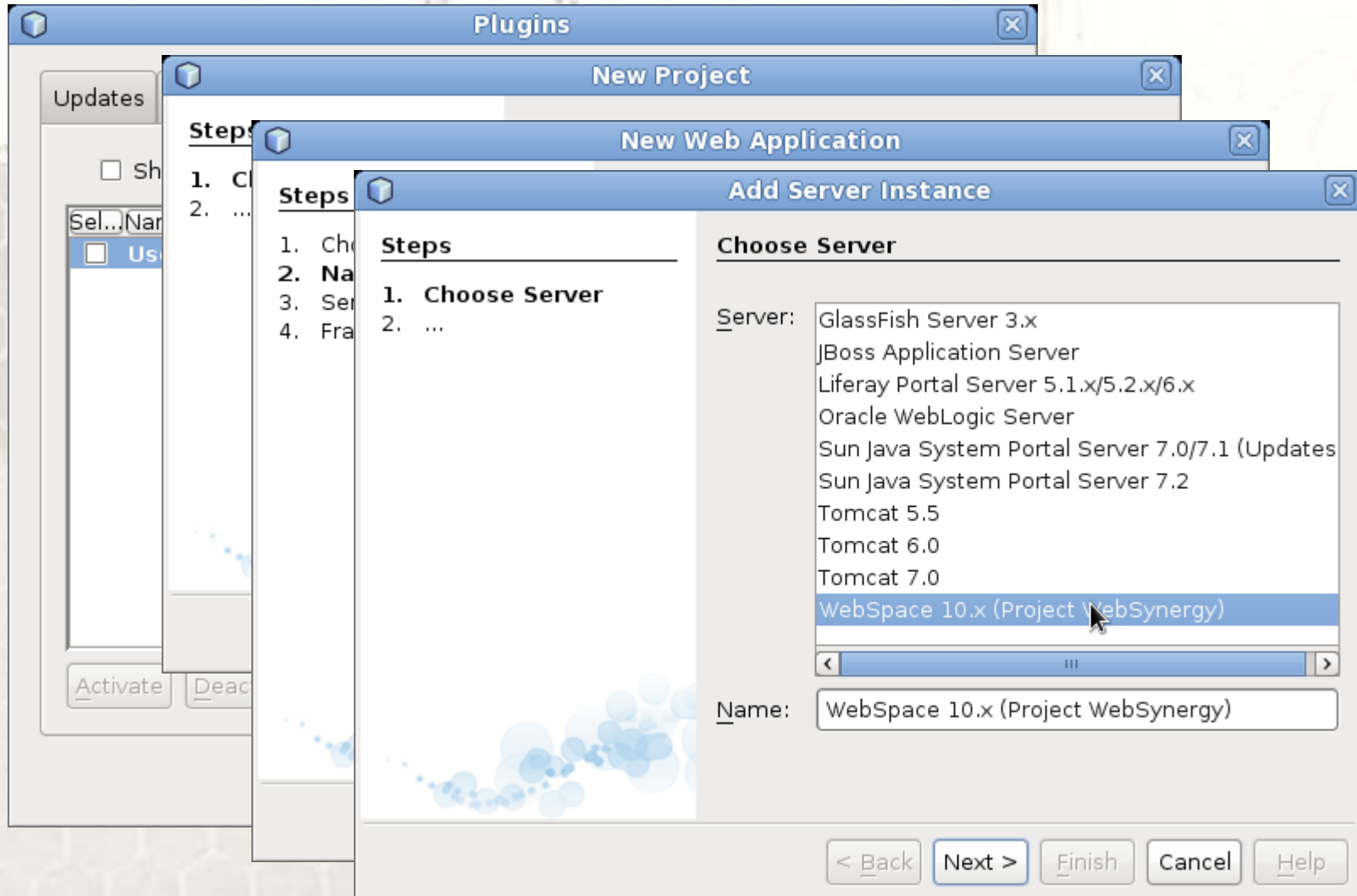
1) doView, doHelp, doEdit

2) **processAction**

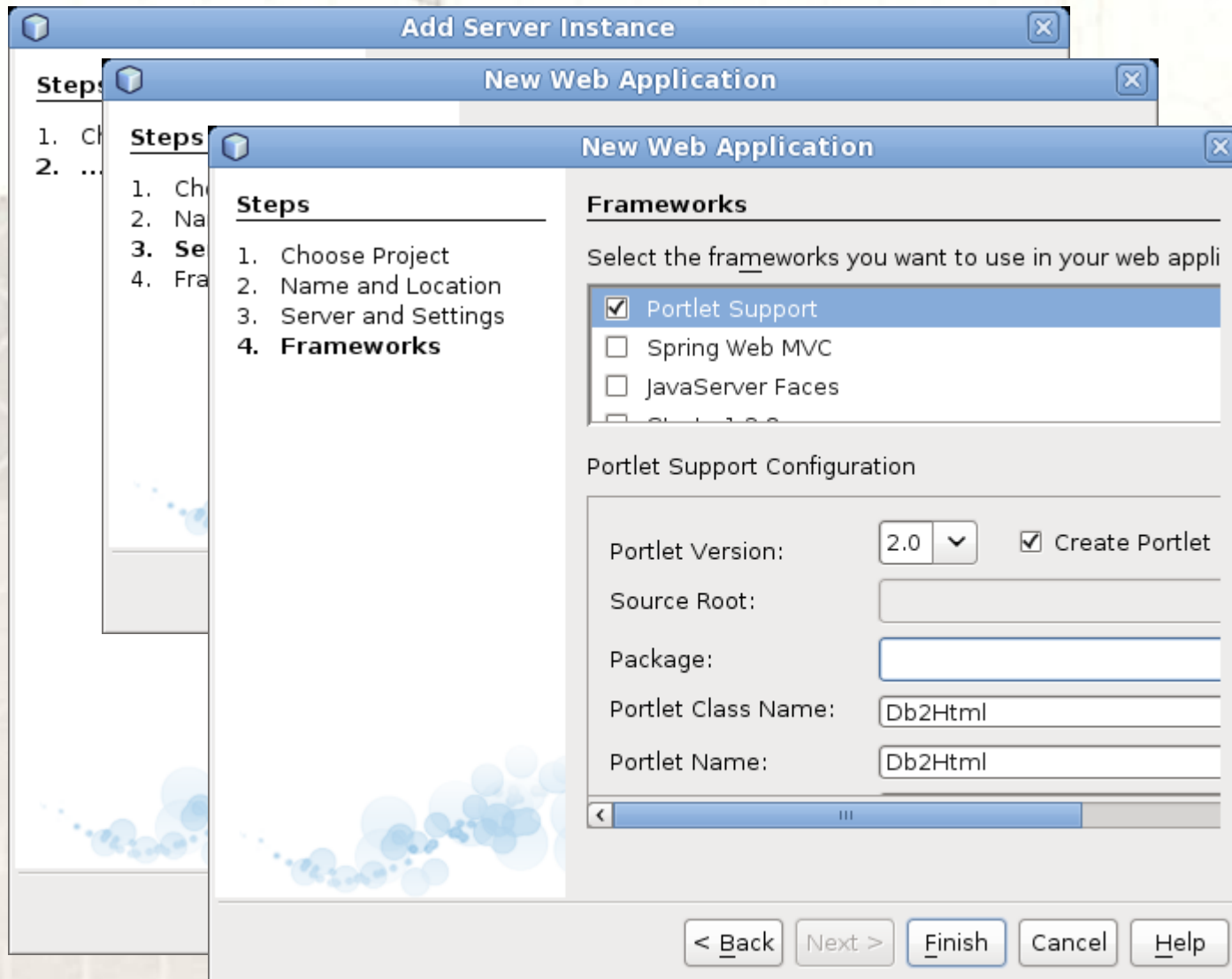
```
1 public class Db2Html extends javax.portlet.GenericPortlet {
2
3     public void processAction(javax.portlet.ActionRequest request, javax.portlet.ActionResponse response) throws
4         javax.portlet.PortletPreferences prefs = request.getPreferences();
5
6         String docbookFileURL = request.getParameter("docbookFileURL");
7         System.out.println(docbookFileURL);
8
9         /* A Validation API-val dolgozunk. Melyik sémanyelvet akarjuk
10        használni, most a W3C XML sémát, de ez lehetne például a RELAX NG
11        is. */
12        javax.xml.validation.SchemaFactory schemaFactory =
13            javax.xml.validation.SchemaFactory.newInstance(
14                javax.xml.XMLConstants.W3C_XML_SCHEMA_NS_URI);
15        javax.xml.validation.Schema schema = null;
```

Portal Pack plugin

<http://contrib.netbeans.org/portalpack/download.html>



Portal Pack plugin



Kötelező olvasmány

NYJ

NYJ

NYJ

NYJ