

GlassFish v3

1er juillet 2009

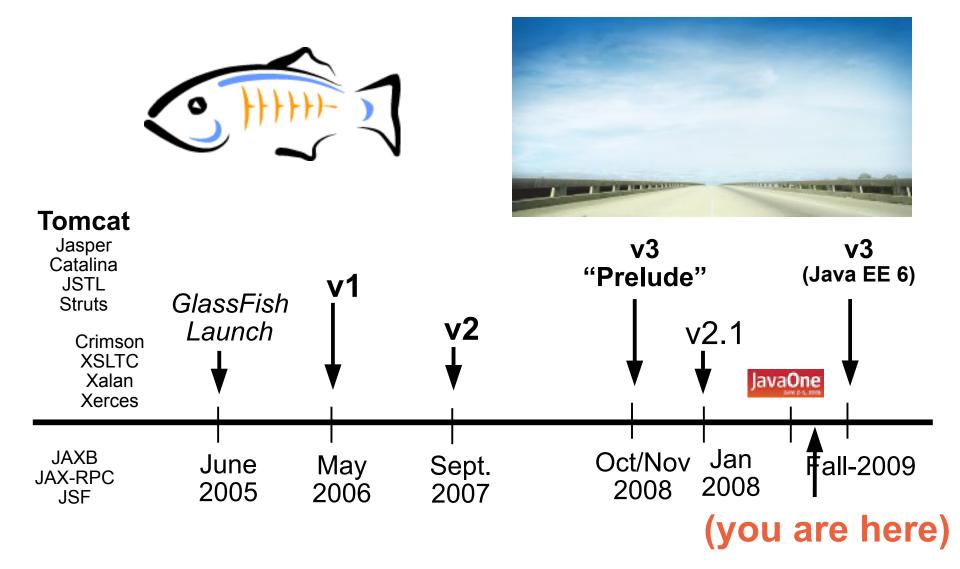
Alexis Moussine-Pouchkine GlassFish Team





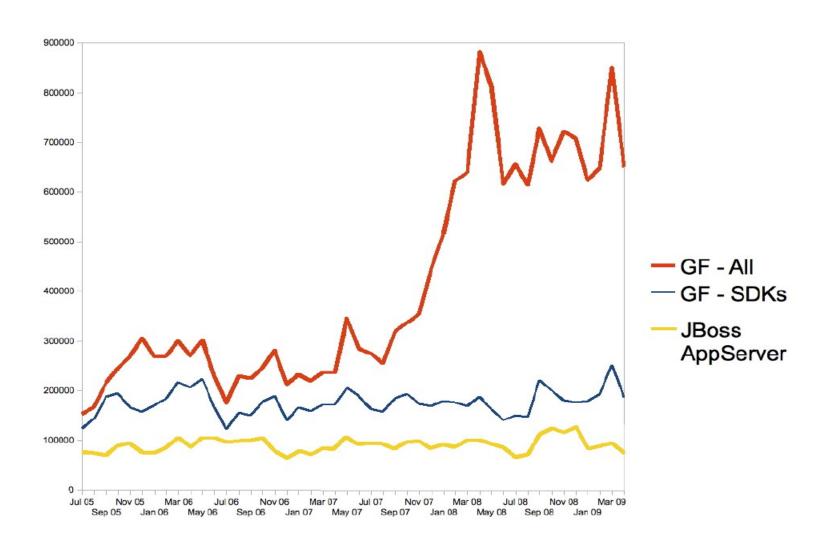


Timeline of Project GlassFish



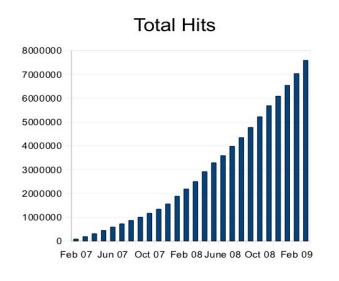


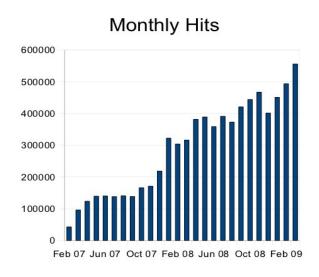
GlassFish Downloads

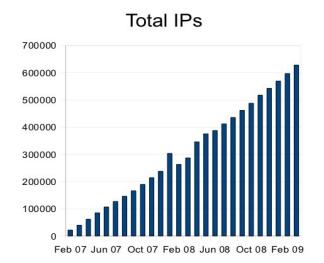




Actual Usage



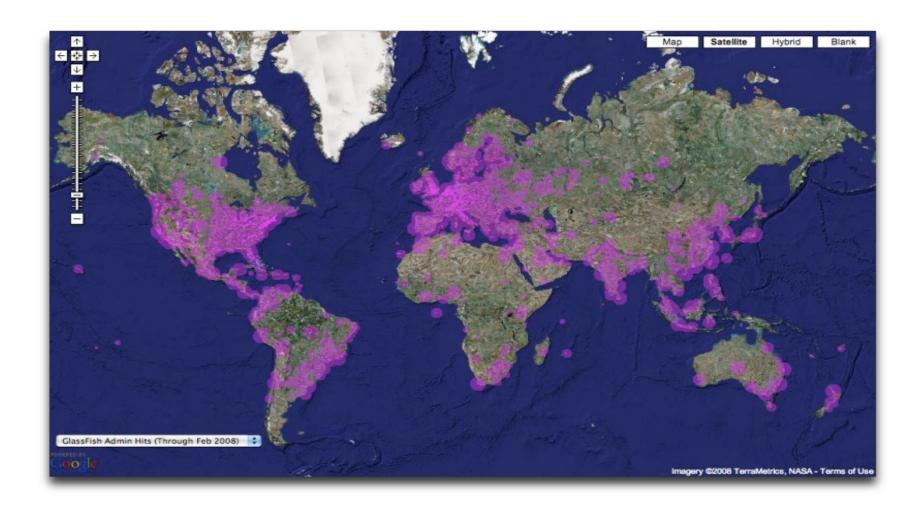






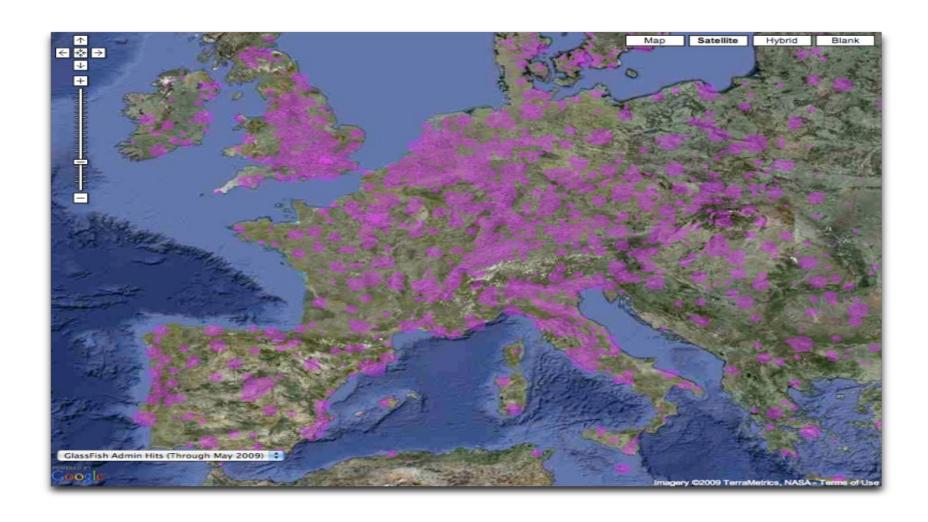


GlassFish around you





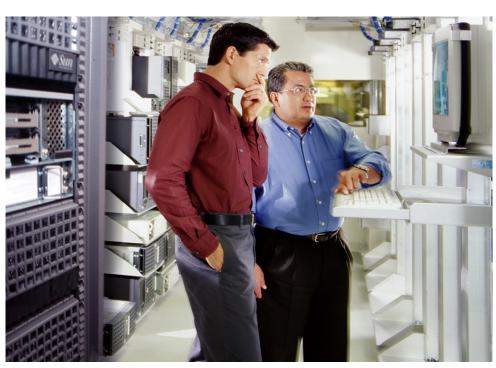
GlassFish around you (really)





If there was only one reason...

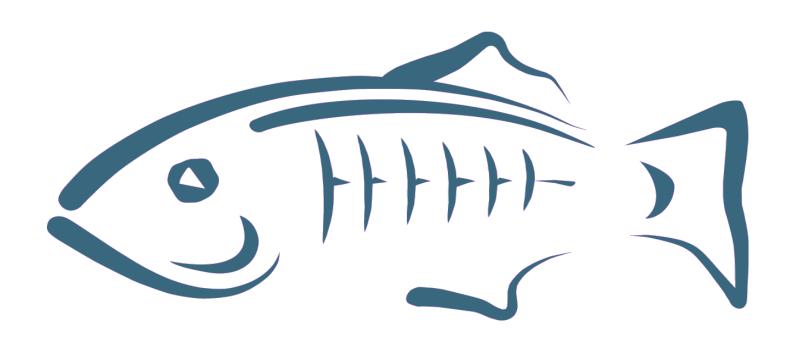




... we care about both



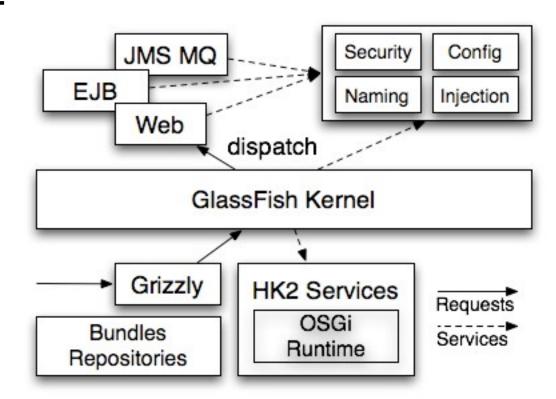
Introducing GlassFish v3





Modular and Dynamic

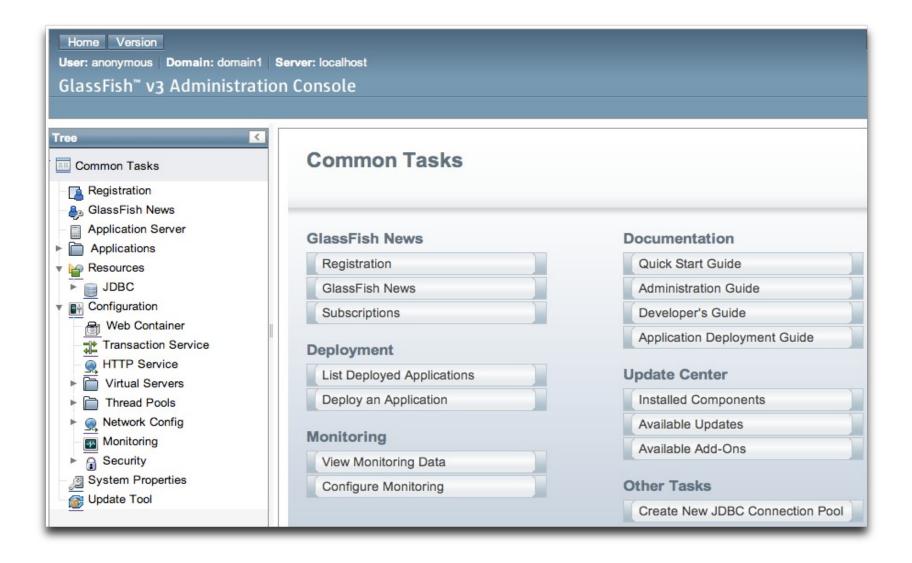
- Modular : Apache Felix (OSGi)
- Extensible : HK2
- Yet very Fast!







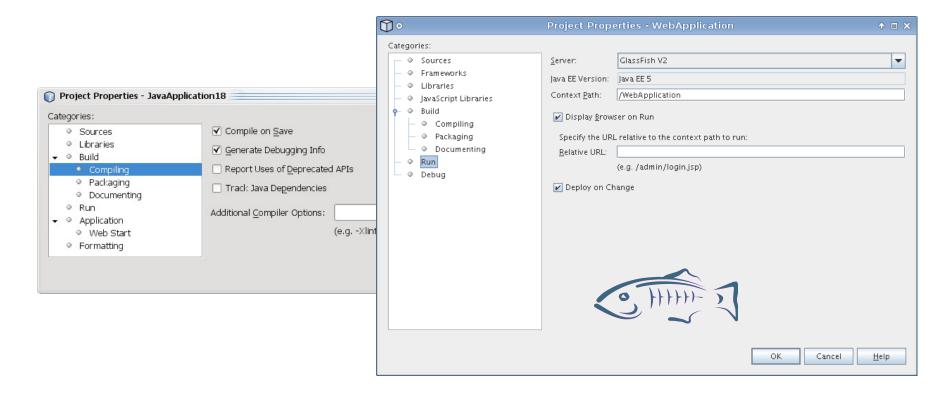
Admin Console





Painless Java EE development!

- Java EE development doesn't have to be painful :)
- Incremental compile of all Java EE artifacts
- Auto-deploy of all Java EE and static artifacts





Session Retention

 Deployment option to maintain stateful sessions across re-deployments

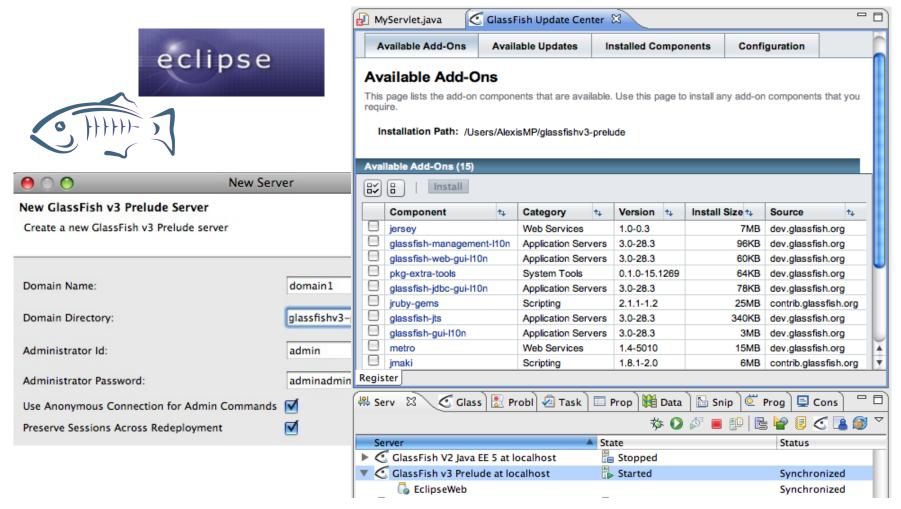
\$ asadmin redeploy --properties
keepSessions=true myapp.war

- Greatly simplifies the development paradigm
- Integrated in NetBeans 6.x :

| Server Name: | GlassFish V3 | |
|---|----------------------|---|
| Server Type: | GlassFish V3 Prelude | |
| Location: | | localhost:8080 |
| Domains fold | er: | sfish-v3-prelude-b28c/glassfish/domains |
| Domain Name: | | domain1 |
| ☐ Enable Comet Support | | |
| ☐ Enable HTTP Monitor NetBeans IDE 6.5 | | |
| Enable JDBC Driver Deployment | | |
| ▼ Preserve Sessions Across Redeployment | | |



Yes, Eclipse too!



GlassFish (v2/v3) + Eclipse 3.4 Tools Bundle: http://download.java.net/glassfish/eclipse/



Java EE 6 (JSR 316)

- EJB 3.1
- JPA 2.0
- Servlet 3.0
- JSF 2.0
- Connector Architecture 1.6
- Bean Validation 1.0
- JSR 299 JCDI 1.0 (née Web Beans)*

- JAXB 2.2
- JAX-WS 2.2
- JSR-109 1.3
- JAX-RS 1.1
- JSP 2.2, EL 2.2
- Authentication SPI 1.1
- Common Annotations 1.1 (JSR 250)



Java EE 6 (JSR 316)

- EJB 3.1, EJB 3.1 lite
- JPA 2.0
- Servlet 3.0
- JSF 2.0
- Connector Architecture 1.6
- Bean Validation 1.0

 JSR 299 JCDI 1.0 (née Web Beans)*

- JAXB 2.2
- JAX-WS 2.2
- JSR-109 1.3
- JAX-RS 1.1

1.0

Bean Validation

- JSP 2.2, EL 2.2
- Authentication SPI 1.1
- Common Annotations 1.1 __(JSR 250)

 EJB 3.1 Lite
 JTA 1.1
 JPA 2.0

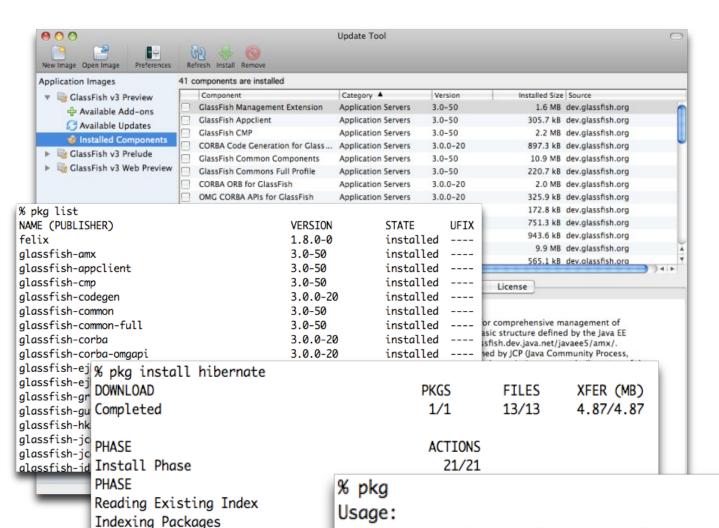
 JSTL 1.2
 JSP 2.2
 EL 2.2

 JSF 2.0

 Servlet 3.0



Update Center





pkg [options] command [cmd_options] [operands]



GlassFish Embedded

```
AppServer glassfish = new AppServer(8080);
glassfish.deployWar(warFile);
```

```
total(1022ms)
```

INFO: GlassFish V3 Prelude startup time : Embedded(430ms) startup services(592ms) total(1022ms)



GlassFish Embedded

```
public class Main {
  public static void main (String[] args) {
    AppServer glassfish = new AppServer(8080);
    glassfish.deployWar(a_useful_app);
  }
}
```



GlassFish Embedded

```
@BeforeClass
public static void setUpClass () {
  AppServer glassfish = new AppServer(8080);
  glassfish.deployWar(myApplication);
@Test
public void pingApplication () {
```



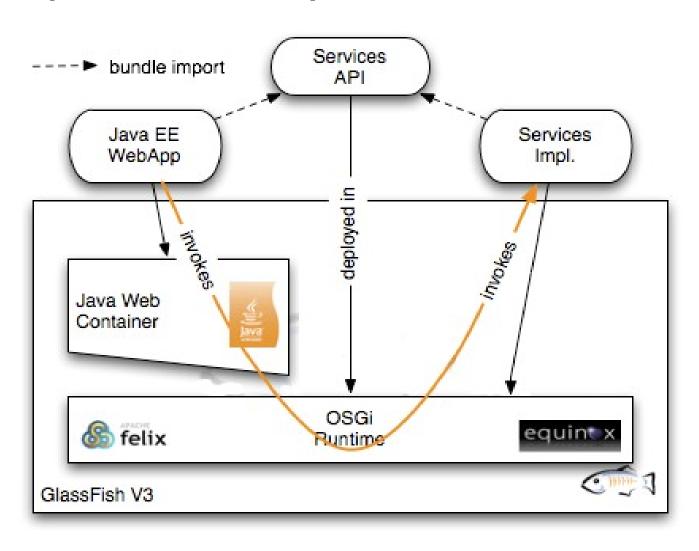
Extending GlassFish v3 An example

- Extend GlassFish with an OSGi declarative service
 - using plain OSGi service with the appropriate Service-Component entry in the JAR Manifest
- Invoke the service from a servlet
 - > using standard @Resource injection
- Never use a GlassFish API!
- No need to chose between OSGi and Java EE



Extending GlassFish v3

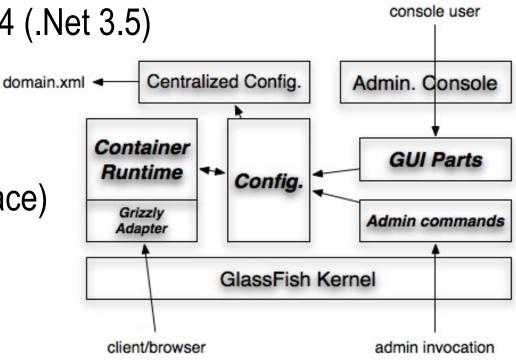
An example, a demo and a picture





A lot more ...

- Dynamic languages : Rails, Grails, Django, ...
- Comet, Cometd/Bayeux
- Embedded API
- Full support for mod_jk, WebDAV, CGI, SSI
- Web Services Metro 1.4 (.Net 3.5)
- OpenMQ
- IPS/pkg(5)
- RESTful admin
- Monitoring (btrace, dtrace)
- Extensible!





GlassFish v3 – Practical

- Get it from http://glassfish.org
 - SlassFish v3 Preview today, Final in September
- Choice !
 - Eclipse or NetBeans (or vi...)
 - > Felix or Equinox
- Download size: starting at 30MB
 - Strain Strain
 - Can move from Web profile to full (and vice-versa) using pkg/updatetool
 - Can always start from the IPS 5MB bootstrap...



Questions?

http://blogs.sun.com/alexismp alexis.mp@sun.com

