Push-Button Building, Testing, & Publishing Your Plugins

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Agenda

- *Intro*
- Configure & Run
- Publish
- Test
Intro

DEMO: What's in a build server?
- Website, X Server, CVS & database
- Access via /etc/hosts on IP __.__.__.__
- http://buildbox/

• DO try this at home!
  - http://wiki.eclipse.org/EMF_Build_Server_Setup
  - http://antix.mepis.com
C:\windows\system32\drivers\etc\hosts
-or-
/etc/hosts
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- Test
Configure & Run

- **Exercise 1**: Check out sources & verify environment

- **Exercise 2**: Set up releng project (from a template)

- **DEMO**: Website configuration / Running a build

- **Exercise 3**: Diagnosing build failures
Help -> Cheat Sheets…
Configure & Run

• Exercise 1: Check out sources & verify environment

• Exercise 2: Set up releng project (from a template)

• **DEMO: Website configuration / Running a build**

• Exercise 3: Diagnosing build failures
Configure UI – Build & Promote Pages

```php
<?php
require_once ('././././includes/buildServer-common.php');
$options = array(
    "BaseBuilderBranch" => "M5_34",
    "BranchAndJDK" => array(
        "buildbox=--------,---------",
        "0.9.0=HEAD,/opt/sun-java2-5.0",
        "0.8.2=RO_8_maintenance,/opt/sun-java2-5.0",
        "0.7.3=RO_7_maintenance,/opt/sun-java2-5.0",
    ),
    "Mapfile_Rule_Default" => 0, // 0: "Use Map, No Tagging=use-false" or 1:
    "EmailDefault" => "nickboldt@gmail.com", // prefill email contact box with:
    "Users" => array("build", "build", NULL) /* build user, eclipse cvs user,
);
?>
```
Configure UI – Download Page (Add an extra zip)
To run a build, please complete the following form and click the Build button. For help, click the [*] links below.

### Build Page

- Select details & type
- Select or add new dependencies
- Set branch for `o.e.releng.basebuilder`
- Build!

### Run A Build

To run a build, please complete the following form and click the Build button. For help, click the [*] links below.

#### Requires at least 2 SDKs: Eclipse, EMF, ...

Prepare your dependency URLs:

<table>
<thead>
<tr>
<th>Public</th>
<th>Mirror</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eclipse</td>
<td>Eclipse</td>
</tr>
<tr>
<td>EMF, MQ, MT, VF</td>
<td>EMF, MQ, MT, VF</td>
</tr>
<tr>
<td>Compare, Ecore Tools, MWE, Net4j</td>
<td>Compare, Ecore Tools, MWE, Net4j</td>
</tr>
<tr>
<td>OCL, UML2, UML2 Tools</td>
<td>OCL, UML2, UML2 Tools</td>
</tr>
</tbody>
</table>

- [Downloads](http://download.eclipse.org/eclipse/downloads/drops3-3.4/MC-20080620T1330/eclipse-SDK-3.4M5-linux-gtk.tar.gz)

#### Basebuilder Branch:

- **M5_34**

#### Build Alias

- **0.9.0M5**

#### Mapfile & Tagging

- Use Map

#### Run Tests

- JUnit Tests

#### Email?

- [ ]
Administer Dependencies

```
[DependenciesURL]
02emf=http://emf.torolab.ibm.com/modeling/emf/emf/downloads/drops/2.4.0/S200802090050/emf-sdo-xsd-SDK-2.4.0M5.zip
05ocl=http://emf.torolab.ibm.com/modeling/mdt/ocl/downloads/drops/1.2.0/S200802121700/mdt-ocl-all-SDK-1.2.0M5.zip
03uml2=http://emf.torolab.ibm.com/modeling/mdt/uml2/downloads/drops/2.2.0/S200802121122/mdt-uml2-SDK-2.2.0M5.zip
```

"/home/www-data/build/requests/dependencies.urls.txt" 11L, 588C written 11,0-1 All
Downloads

Component selection

Component: JET

Latest Builds

→ 0.9.0 / 200803150057 (Sat, 15 Mar 2008 -- 00:57 (-0400))

   → JET
       → SDK (Runtime, Source, Examples) 2.5M (md5)
       → Runtime 825.7K (md5)
       → Editor 128.2K (md5)
       → Examples 25.9K (md5)
       → Automated Tests 304.0K (md5)

   → Build Dependencies
       → sun-java2-5.0 (jdk1.5.0_14)
       → Eclipse-S-3.4M5-200802071530 Build Page
       → EMF 2.4.0M5 S200802090050 Build Page

   → Build Details
       → Changes In This Build
       → Test Results & Compile Logs
       → Config File, Map File, Build Log

→ 0.9.0 / 200803141436 (Fri, 14 Mar 2008 -- 14:36 (-0400))

Success ✓
Configure & Run

• Exercise 1: Check out sources & verify environment

• Exercise 2: Set up releng project (from a template)

• **DEMO: Website configuration / Running a build**

• *Exercise 3: Diagnosing build failures*
Agenda

- Intro
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- *Publish*
- Test
Publish

• Exercise 4: Set up build properties & website config

• DEMO: Promote a build

• Exercise 5: Diagnosing promotion failures

• Exercise 6: Metadata
Publish

• Exercise 4: Set up build properties & website config

• **DEMO: Promote a build**

• Exercise 5: Diagnosing promotion failures

• Exercise 6: Metadata
Promo Page

- Select build
- Set options
- Promote!

Promote A Build

To promote a build, please complete the following form and click the Promote button. Note that by design, you cannot use this form to promote nightly builds, in order to encourage higher quality, more stable releases.

**Build Version, ID & Branch**

- 0.9.0/I200803072358 | HEAD
- 0.9.0/S200802121745 | HEAD
- 0.9.0/I200802052310 | HEAD
- 0.8.2/M200802052255 | R0_8_maintenance
- 0.9.0/I200801222240 | HEAD

**Options**

- Use Properties File From [CVS]
- Contribute to [ganymede]
- Move Resolved Bugs to Verified? [bugsonly]
- Add SDK As Dependency?

**Announce?**

- Announce In Newsgroup?

**Email?**

nickboldt@gmail.com

**Note:** Please ensure the build you intend to promote was done using the latest (or appropriate) driver(s), and that the all tests have passed.

Promote
Publish

• Exercise 4: Set up build properties & website config

• **DEMO: Promote a build**

• **Exercise 5: Diagnosing promotion failures**

• **Exercise 6: Metadata**
  • Tracking CVS commits
  • Commit comment conventions
  • Search CVS & Bugzilla
Agenda

- Intro
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Test

• Exercise 7: Install from update site

• Exercise 8: Install from zip [Optional]

• Exercise 9: Using JET [Optional]
Resources


EMFT, MDT Websites:
- http://www.eclipse.org/modeling/emft/
- http://www.eclipse.org/modeling/mdt/
  - Downloads, Release Notes, Search CVS

Useful Eclipse Wiki Docs:
- http://wiki.eclipse.org/EMF_Bui...Server_Setup
- http://wiki.eclipse.org/Modeling_Project_Releng
- http://wiki.eclipse.org/Search_CVS
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