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http://mfdawn.wiki.sourceforge.net/getting_started_with_dawn

1 Getting started with Dawn

1.1 Preconditions

If you do not have any Eclipse instance, download it. I decided to use the Modelling IDE, because it holds all needed. http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/ga

nymede/SR2/eclipse-modeling-ganymede-SR2-incubation-win32.zip

As always, just download and extract it to a folder of your choice.

1.1.1 Server Management

In previous versions Dawn used the Sysdeo Plugin to start the server. This has now changed. Now the server comes as "Dynamic Web Project" so you can run Dawn in any Servlet Container.

Note: in further version there will be a complete separation between the actual server and the web components to allow running the server without web functionality.

To manage the server you need some Web Tools Plugins. Open the Update Manager "Help->Software Updates..." and install the Plugins shown in the next figure.

🖨 Software Updates and Add-ons						
Installed Software Available Software						
type filter text		~	_			
Name	Version	^	Install			
🗄 🥅 💷 Other Tools						
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V Ab Java EE Developer Tools	3.0.4.v200011211341-// 2CM/CWG/10W/9A10 3.0.4.v200811190840-7U1959LJIHM6oqLbhvbr		Refresh			
Ava Persistence API Tools	2.0.103.v2009C1160200-793DyCYQCD5F/HqC					
Ava Persistence API Tools - EclipseLink Support (Optic		-				
A save of the second of t	1.0.4.v200812112112-6-E758cMAAvDJGFFpNN					
Web Developer Tools	3.0.4.v200811190840-7A-88Qqcz0HyVqiXUE-i					
Web Page Editor (Optional)	2.1.0.v20090128-3219oA55U5D7N2532					
🕀 🥅 📢 GME Lindate Site		~				
Show only the latest versions of available software						
Include items that have already been installed						
Copen the 'Automatic Updates' preference page to set up an automatic upda						
Open the <u>Automatic Opdates</u> preference page to set up an automatic upda	its striedule.					
?			Close			
\cup			Close			

1.1.2 Servlet container

The tutorial will use tomcat 6.0 as servlet container. Your are free to use any other Servlet container (e.g. Jetty). Version 6.0 of the tomcat can be downloaded from here: <u>http://tomcat.apache.org/download-60.cgi</u>

1.1.3 Database

You will need a database to store the data of the server. This tutorial will use a mysql database, but again you are free to use your own setting. In Your database server create a new databse called "dawn"

1.2 Install the Dawn Plugins

Before we can istall the Plugins we need to install the needed dependencies.

For installing the runtome and the examples you do not need any other plugin. If you want to you the codegen feature you need to install openArchitectureWare 4.3.1. This can be done using the oAW update site

http://www.openarchitectureware.org/updatesite/milestone/

Installing the plug-ins is quite easy. Open The Update Manager (Help->Software Updates...).

Add the Dawn update page (<u>http://mfdawn.sourceforge.net/update/site.xml</u>) as a new site.

stalled Software Available Software		
pe filter text		▼ Install
Name	Version	
 A Ganymede Update Site A thtp://download.eclipse.org/mc 	ideling/m2m/undates/	Add Site Manage Sites Refresh
Show only the latest versions of available Include items that have already been ins an the ' <u>Automatic Updates'</u> preference pa		

From the newly created update site install all features.

1.3 Install the server

1.3.1 Import the server project

To install the server download it from the following location. Currently the server is just a simple web project. In later steps this will change allowing you to install it also as plug-in.

http://mfdawn.sourceforge.net/DawnServer.zip

After downloading the archive, just extract is to a temporarily location. To import the server to your workspace select File->Import...

In the following wizard choose "Existing Project into workspace".

🖨 Import	
Select	
Create new projects from an archive file or directory.	
Select an import source:	
ex	
General Existing Projects into Workspace	
? < Back Next > Finish	Cancel

Select the folder which holds the extracted server and check the project. Do not forget to check the "Copy Project into workspace" button. The click "Finish"

Now you have a "Dynamic Web Project" imported.

Currently the project shows error. To solve this create a new server where the project can be deployed in. Open the servers view (Window->Show View->others->server->Servers).

Right click the newly created view and select "New->Server"

Select which type of Servlet-container/application Server you want to use. We will use Tomcat 6.0.

New Server				- 🗆 🛛
Define a New Server Choose the type of server to	create			
Server's host name: localhos Select the server type: type filter text Apache Tomcat v3.2 Ser Tomcat v4.0 Ser Tomcat v4.1 Ser Tomcat v5.0 Ser Tomcat v5.0 Ser Tomcat v6.0 Ser Basic Publishes and runs J2EE and 3 server. Server name:	ver ver ver ver ver ver	ts and server conf	load additional ser	
0	< Back	Next >	Finish	Cancel
U		Next >	Pinish	Cancer

Select the folder where your Tomcat installation is stored.

New Server	
Tomcat Server Specify the installation directory	
Name:	
Apache Tomcat v6.0	
Tomcat installation directory:	
D:\Programme\Apache Software Foundation\Tomcat 6.0	Browse
	Download and Install
JRE:	
Workbench default JRE	Installed JREs
O < Back Next > F	inish Cancel

Now add the dawn server to the configured projects.

New Server			
Add and Remove Projects Modify the projects that are config	ured on the server		
Move projects to the right to config Available projects:	Add > Add All >> Add All >>	Configured projects:	
0	< Back Next >	Finish	Cancel

The "important" error will disappear. Ignore the complaints about the HTML tag from the external library.

1.3.2 Initialize the database

To initialize the database, move to the "src" directory and open the "hibernate-cfg.xml". Set the entries for your database.

If you have not used mysql you need to change the db dialect.

```
<property
name="dialect">org.hibernate.dialect.MySQLInnoDBDialect</property>
```

To initialize the Database with the test default settings simply run org.mftech.dawn.server.persistence.DBCreator. This will initialize the database with some testing data.

1.3.3 Start the server

Make sure that your database server is started. Now right-click the server in your Servers View and start it.

Now the server starts. After the starting procedure open your browser an go to

http://localhost:8080/DawnServer/

The following start page should appear:

🕲 Mozilla Firefox		
Datei Bearbeiten Ansicht ⊆hronik Lesezeichen Extras Hilfe		1.1
🕜 💽 🗸 🏠 🗋 http://localhost:8080/DawnServer/	☆ ・ Google Books	P
间 Meistbesuchte Seiten 🔃 TVToday 🍝 Wetter.com 😹 http://killinchen:8081/ 🚼 Google Books		
DawnServer 0.1	-	
Please log in		
user name:		
Martin password:		
Absenden		
register		
register		
Fertig	S	. 💫

1.3.4 Starting the client

To start the client, create a new run configuration (Run->Run Configuration). Name it "Instance 1" and set also the location to "instance1"

Run Configurations		
Create, manage, and run configurati Create a configuration to launch an Eclipse app		
Image: Second	Name: Instance 1 Main (A)= Arguments) ♥ Plug-ins) □ Configuration □ Tracing Workspace Data Location: \${workspace_loc}}/instance1 □ Clear: ● workspace _ log only ✓ Ask for confirmation before clearing Program to Run ● Run a product: org.eclipse.platform.ide ○ Run an application: org.eclipse.ui.ide.workbench Java Runtime Environment Java § @ Runtime JRE: jre1.6.0_05 © Execution Environment: CDC-1.0/Foundation-1.0 (jre1.6.0_05) Bootstrap Entries: □	Environment Common Workspace File System Variables Variables Installed JREs Environments
Filter matched 19 of 19 items		Apply Revert
0		Run Close

Create a new Java Project called "Dawn". Now create a remote diagram. New->other...->Examples->Create Remote Class Diagram

e New	
Select a wizard description body text	
Wizards: type filter text	
 Examples Classdiagram Diagram Create Remote Classdiagram Diagram Join Remote Classdiagram Diagram Eclipse Modeling Framework EMF Model Query Plug-ins EMF Model Transaction Plug-ins EMF Validation Framework Plug-ins EMF Validation Framework Plug-ins GEF (Graphical Editing Framework) Plug-ins GMF (Graphical Modeling Framework) Plug-ins OCL (Object Constraint Language) Plug-ins Operational QVT Transformation ML XML Schema Definition 	
O < Back Next > Finish	Cancel

Name the project "test.classdiagram_diagram" and click "Finish"

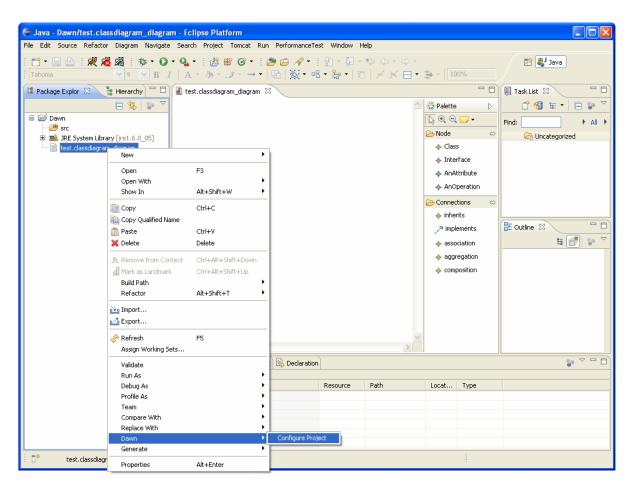
🖨 New Classdiagram Diagram	
Create Classdiagram Diagram Select file that will contain diagram and domain models.	
Enter or select the parent folder:	
Dawn	
 Image: Image: Antiparties of the second s	
File name: dawn.classdiagram_diagram	
Advanced >>	
(?) < Back Next > Finish	Cancel

Now you must login. The account for the sample user is

User: Martin PW: 123

By now we have created to diagram for one user. But to work collaborative we will need a second one. This second user has to be assigned to the current diagram. To achiev this we will

use the WebConfig GUI. But it would be very annoying to switch to a browser, log into the server, navigate to the project and edit the settings. That's why you can access the web interface directly from Eclipse. Right-click the currently created diagram file. You will find a new menu (Dawn->Configure Project)



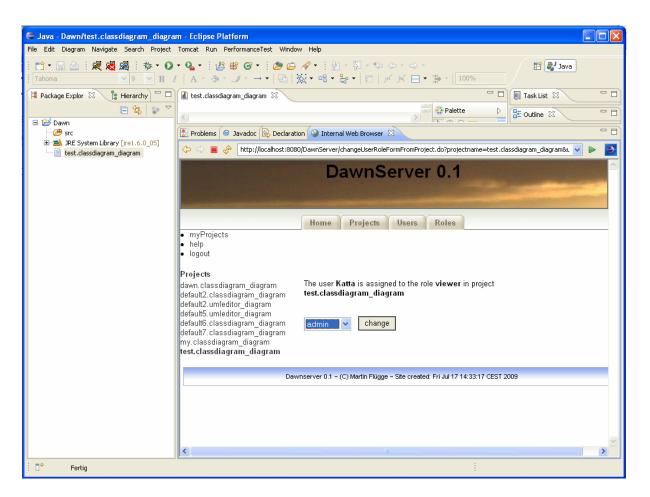
In Eclipse a browser window will open which automatically navigates to the correct project. To invite other user just click "Invite others"

🖹 Problems 🛛 @ Javadoc 🛛 😟 Declaratio	n 🧐 Internal Web	Browser 🛿	3								
🔶 🗅 🔳 🦑 http://localhost:8080	/DawnServer/configu	reProject.d	o?proje	tname	=test.cla	ssdiagram	n_diagram		*	Þ	Ð
	Daw	'nSe	erv	er	0.1		-	-	-		
helplogout	Home Pro	jects	User	6	Roles	myF	Projects				-
Projects	basic informati	on									
dawn.classdiagram_diagram default2.classdiagram_diagram default2.umleditor_diagram	ProjectName test.classdiagram_diagram										
default5.umleditor_diagram	Creator Martin										
default6.classdiagram_diagram default7.classdiagram_diagram my.classdiagram_diagram	Users										
test.classdiagram_diagram	username rol	e i	u	d							
	Martin (1) adı	nin true	true	true	configu	ire role					
	invite others o enlarged	onfigure	Roles	WO	rk onlir	ie work	online				
Dawi	nserver 0.1 – (C) Mar	tin Flügge -	Site cr	eated: F	Fri Jul 17	14:31:48	CEST 2009				
<										>	

Assign the user "Katta" to the project.

🖶 Java - Dawn/test.classdiagram_diagra	m - Eclipse Platform 📃 🗖 🛽							
File Edit Diagram Navigate Search Project Tomcat Run PerformanceTest Window Help								
i 📬 • 🔜 🗁 i 🐙 趨 🖓 i 🏇 • Ο	・ Q_・ : 22 冊 @・ : 29 臼 ペ・ : 20 - 20 - 20							
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	Cost classified an alogram with a second secon							
🗏 🔛 Dawn								
	Problems @ Javadoc 😥 Declaration 🎱 Internal Web Browser 🕴 🗖							
test.classdiagram_diagram	🗢 🗢 🔳 🚸 http://localhost:8080/DawnServer/inviteOthers.do 🛛 💌 🕨 🎦							
	DawnServer 0.1							
	Home Projects Users Roles							
	 help logout 							
	Projects Invite Others							
	default2.classdiagram_diagram default2.umleditor_diagramtest.classdiagram_diagramtest.classdiagramtest.classdiagramtest							
	default5.umleditor_diagram default6.classdiagram_diagram							
	default7.classdiagram_diagramAddKatta							
	test.classdiagram_diagram Add All >>							
	Remove All <<							
	Invite							
. □ [◆] Fertig								

Next we will change the user rights of the new user. Simply click the configure Role link in the users row. Change the role "form" viewer to "admin".



Now that we have a second user assigned to the project we can open a second Eclipse instance. Just create a second launch configuration, name it "instance 2". The best way to do this is to copy the first one.

Again create a Java Project called "Dawn" in the new workspace.

To join a remote diagram open New->Other->Examples->Join remote ClassDiagram Diagram

e New	
Select a wizard description body text	
Wizards:	
type filter text	
 Examples Classdiagram Diagram Create Remote Classdiagram Diagram Join Remote Classdiagram Diagram Con Remote Classdiagram Diagram Edipse Modeling Framework EMF Model Query Plug-ins EMF Model Transaction Plug-ins EMF Validation Framework Plug-ins EMF Validation Framework Plug-ins GEF (Graphical Editing Framework) Plug-ins GMF (Graphical Modeling Framework) Plug-ins OCL (Object Constraint Language) Plug-ins Operational QVT Transformation XML XML Schema Definition 	
(?) < Back Next > Finish	Cancel

Again you will be asked for a password. This time the second user will log in.

User: Katta PW: 123

You will get a list of all available project for the user. Select the "test.classdiagram_diagram" and finish the wizard.

🖨 New Classdiagram Diagram	
Bla	
Select a Project Name:	
dawn.classdiagram_diagram my.classdiagram_diagram default7.classdiagram_diagram test.classdiagram_diagram	
O < Back Next > Finish	Cancel

Now the diagram will be created in the other client. Just play a bit around and create some Interfaces or Classes in the example editor. But please keep in mind that this is only version 0.1;)

🖨 Java - Dawn/test.classd				_ 🗆 🔀		lassdiagram_diagram - Eclips				
Pile Edit Diagram Havigate	Search Prosect	Tonicat Run PerformanceTest Window F	leb		File Edit Diagram Navig	pate Search Project Torncat P	lun PerformanceTest Window	+ Help		
1	- - - - - - - - - - - - - - - - - - -	$\ \mathbf{x} \cdot \mathbf{y} \cdot \ _{\mathcal{X}} \to \mathbf{e} \ \mathbf{y} \ _{\mathcal{X}}$	8 8 6 · 18 6 4 ·	E St Java	□ • • • • • • • • • • • • • • • • • • •	 За с с с с с с с с с с с с с с с с с с с	5×.x×→•(@)]3		E 413	ma)
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	4			Server Online		C				Server Online
		Javadoc 😥 Declaration 🎯 Internal Web D	rowser Properties 🖾	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		🖹 Problems 🕅 🥥 Javadoc	Declaration			\$ [™] ⊓ □
	Class Diag	ram				0 kems				
	Core	Property	Value	<u>^</u>		Description A	Resource	Path Loca	t Type	
	Rulers & Grid	Title	12							
	Appearance									
5 5				× ×	< > >					
1 D *	1	e		5 ±	i 0°			l.		

To work with the web-Viewer switch to your browser and open the webfronend in it (<u>http://localhost:8080/DawnServer</u>). Log in with the given login and navigate to the "myProjects" tab. There you will find the currently created project "test.classdiagram_diagram". Click the configure link.

	Home Projects Users	Roles	m					
Projects	Projects:10							
bla.classdiagram_diagram dawn.classdiagram_diagram default2.classdiagram_diagram default2.umleditor_diagram default3.classdiagram_diagram default6.classdiagram_diagram default7.classdiagram_diagram my.classdiagram_diagram test.classdiagram_diagram	Project Name							
	bla.classdiagram_diagram	configure	delete					
	dawn.classdiagram_diagram	configure	delete					
	default2.classdiagram_diagram	configure	delete					
	default2.umleditor_diagram	configure	delete					
	default3.classdiagram_diagram	configure	delete					
	default5.umleditor_diagram	configure	delete					
	default6.classdiagram_diagram	configure	delete					
	default7.classdiagram_diagram	configure	delete					
	my.classdiagram_diagram	configure	delete					
	test.classdiagram_diagram	configure	delete					

You are now on the configuration page for the project. Click the "work online" or the "work online enlarged" link to see your diagram in the browser.

	Home	Proje	cts	User	s	Roles	myProjects	help	logout	
Projects bla.classdiagram_diagram dawn.classdiagram_diagram default2.classdiagram_diagram default2.umleditor_diagram default3.classdiagram_diagram default5.umleditor_diagram default6.classdiagram_diagram	basic information									
	ProjectNa	me te	est.clas	sdiagi	ram_d	iagram				
	Creator	N	lartin							
	Users									
my.classdiagram_diagram	username	role	i	u	d					
test.classdiagram_diagram	Martin (1)	admir	n true	true	true	configur	e role			
	Katta (2)	admir	n true	true	true	configur	e role			

Play a bit around. Change a Node in your GMF-Editor and check what happens in the web. Or just move a node in your web browser (!) and examine the beginning of the web editor ;)

😻 WebViewer - A	Aozilla F	irefox				
<u>D</u> atei <u>B</u> earbeiten	<u>A</u> nsicht	⊆hronik	<u>L</u> esezeichen	E <u>x</u> tras	<u>H</u> ilfe	
C>- C	×	☆ [http://local	host:8080,	/DawnServer/workonlin	e.do?projectName=te
🔎 Meistbesuchte Se	iten 🔟 T	/Today 🎽	Wetter.com	💌 http:/	//killinchen:8081/ 🔧	Google Books
🐉 CoolMiniOrNot	🦲 Eclip	ose Corner	IEM Pluggir	ng in a l	Development	👌 eclipse commit
AnInterfac		*Anot	nerClass			

2 Troubleshooting

2.1 OutOfMemeory...

If you experience OutOfMemeoryExceptions in your client instance increase the memory in your RunConfiguration.

-Xmx1024M