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# Amazon EC2 & Eclipse



**PACIFIC**  
HI - TECH

Using Amazon EC2 tools in  
Eclipse

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- What is AWS & EC2?
- What is an AMI?
  - IBM provides EC2 AMIs
- Amazon EC2 Console
  - AMI (Amazon Machine Image)
- Eclipse with EC2 Plugin
  - AWS Toolkit
  - Eclipse.org g-eclipse

## What is AWS & EC2?

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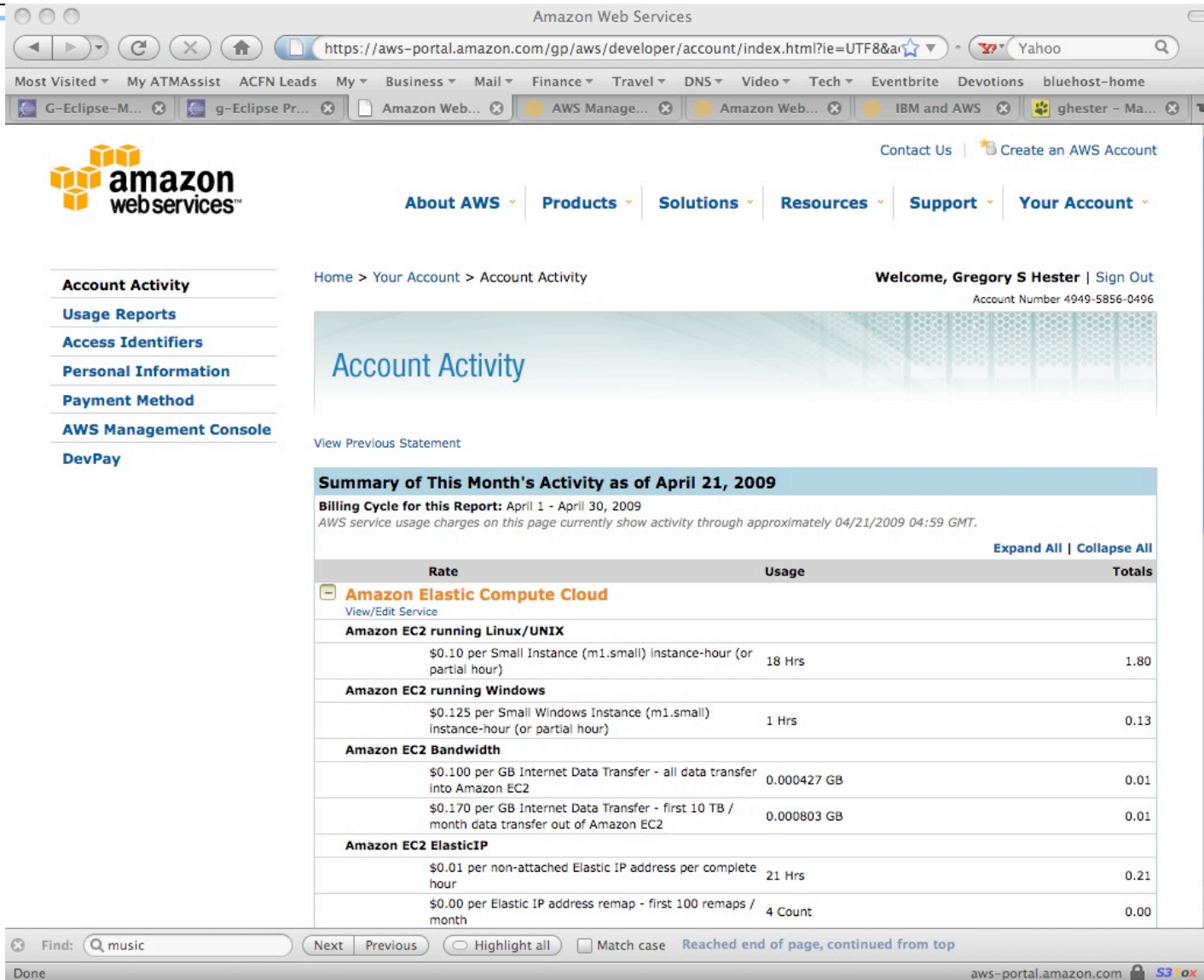
- Using Amazon Web Services, an e-commerce web site can weather unforeseen demand with ease; a pharmaceutical company can “rent” computing power to execute large-scale simulations; a media company can serve unlimited videos, music, and more; and an enterprise can deploy bandwidth-consuming services and training to its mobile workforce.
- Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale computing easier for developers.

# What is an AMI?

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- An Amazon Machine Image (AMI) is a copy of a server instance that you can use to launch identical copies of the instance at any time. For example, an AMI might contain Linux, Apache, and your web site content; it might contain Linux, Hadoop, and a custom application; or it might contain Windows, Internet Information Server (IIS), SQL, and your web store data.
- To use EC2 first sign up at:
  - <http://aws.amazon.com/ec2>
- IBM provides AMI's with IBM Tools installed (Dev AMI's are Free)
  - <http://aws.amazon.com/solutions/featured-partners/ibm/>

# EC2 Account Activity



Amazon Web Services

https://aws-portal.amazon.com/gp/aws/developer/account/index.html?ie=UTF8&ar... Yahoo

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Home > Your Account > Account Activity

Welcome, Gregory S Hester | Sign Out  
Account Number 4949-5856-0496

## Account Activity

View Previous Statement

**Summary of This Month's Activity as of April 21, 2009**

Billing Cycle for this Report: April 1 - April 30, 2009  
AWS service usage charges on this page currently show activity through approximately 04/21/2009 04:59 GMT.

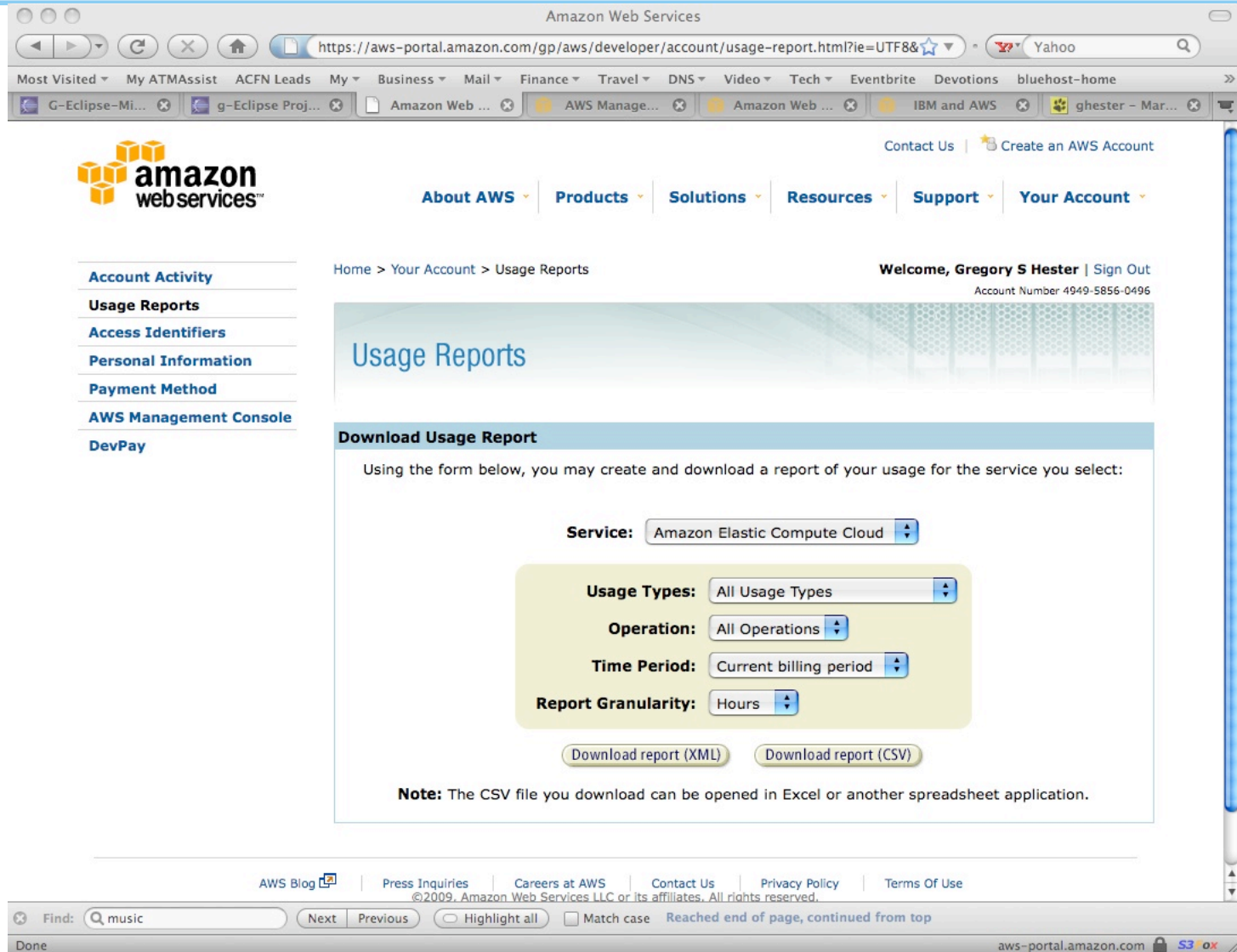
[Expand All](#) | [Collapse All](#)

Rate	Usage	Totals
<b>Amazon Elastic Compute Cloud</b> <a href="#">View/Edit Service</a>		
<b>Amazon EC2 running Linux/UNIX</b>		
\$0.10 per Small Instance (m1.small) Instance-hour (or partial hour)	18 Hrs	1.80
<b>Amazon EC2 running Windows</b>		
\$0.125 per Small Windows Instance (m1.small) Instance-hour (or partial hour)	1 Hrs	0.13
<b>Amazon EC2 Bandwidth</b>		
\$0.100 per GB Internet Data Transfer - all data transfer into Amazon EC2	0.000427 GB	0.01
\$0.170 per GB Internet Data Transfer - first 10 TB / month data transfer out of Amazon EC2	0.000803 GB	0.01
<b>Amazon EC2 ElasticIP</b>		
\$0.01 per non-attached Elastic IP address per complete hour	21 Hrs	0.21
\$0.00 per Elastic IP address remap - first 100 remaps / month	4 Count	0.00

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# EC2 Usage Report



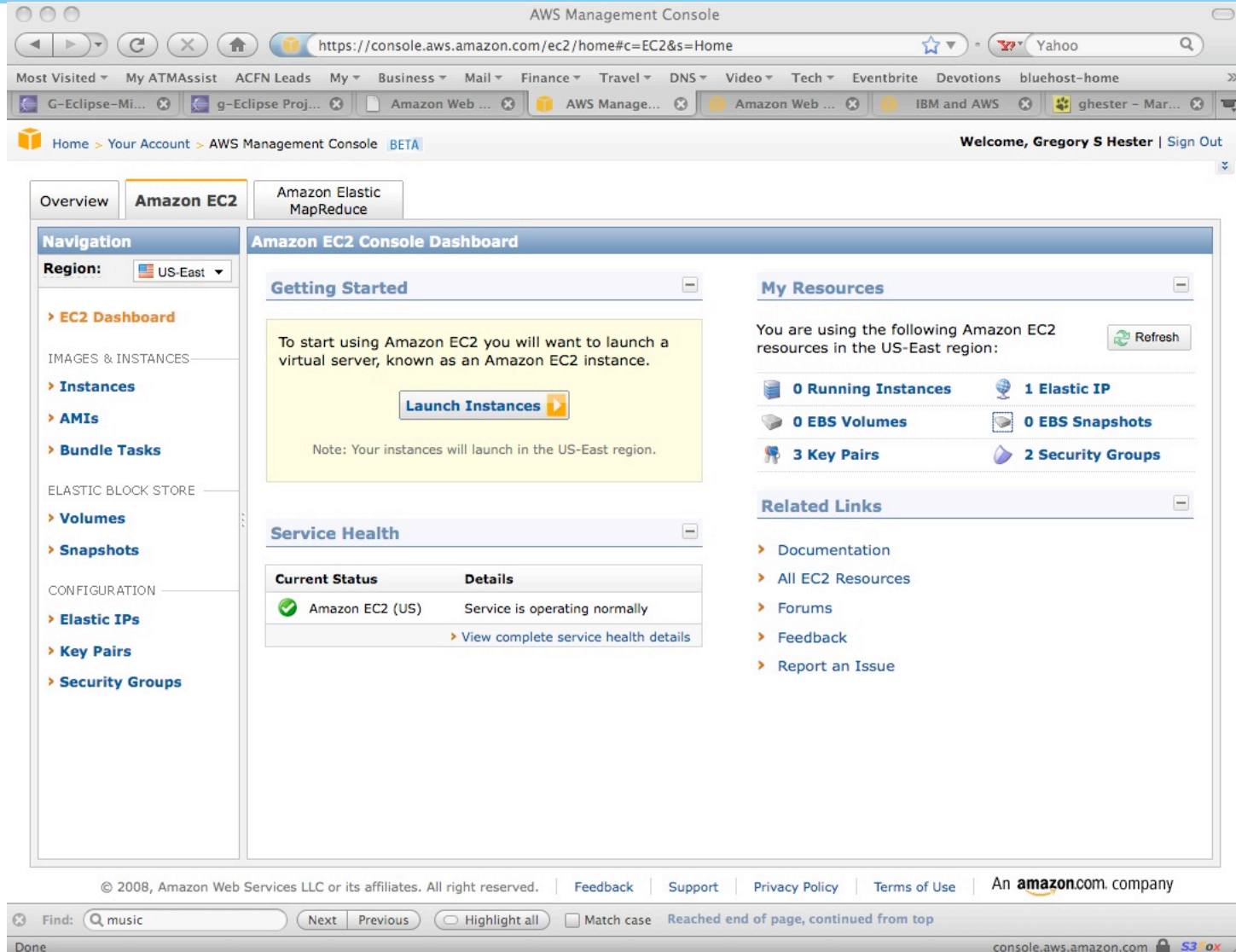
The screenshot shows the AWS Management Console interface for a user named Gregory S Hester. The page is titled "Usage Reports" and is part of the "Your Account" section. The main content area is titled "Download Usage Report" and contains a form for generating a report. The form has the following fields:

- Service:** Amazon Elastic Compute Cloud
- Usage Types:** All Usage Types
- Operation:** All Operations
- Time Period:** Current billing period
- Report Granularity:** Hours

Below the form are two buttons: "Download report (XML)" and "Download report (CSV)". A note states: "Note: The CSV file you download can be opened in Excel or another spreadsheet application."

The footer of the page includes links for "AWS Blog", "Press Inquiries", "Careers at AWS", "Contact Us", "Privacy Policy", and "Terms Of Use". The copyright notice is "©2009 Amazon Web Services LLC or its affiliates. All rights reserved."

# EC2 Dashboard



The screenshot shows the AWS Management Console for the Amazon EC2 service. The browser address bar displays the URL `https://console.aws.amazon.com/ec2/home#c=EC2&s=Home`. The page title is "AWS Management Console". The user is logged in as "Gregory S Hester".

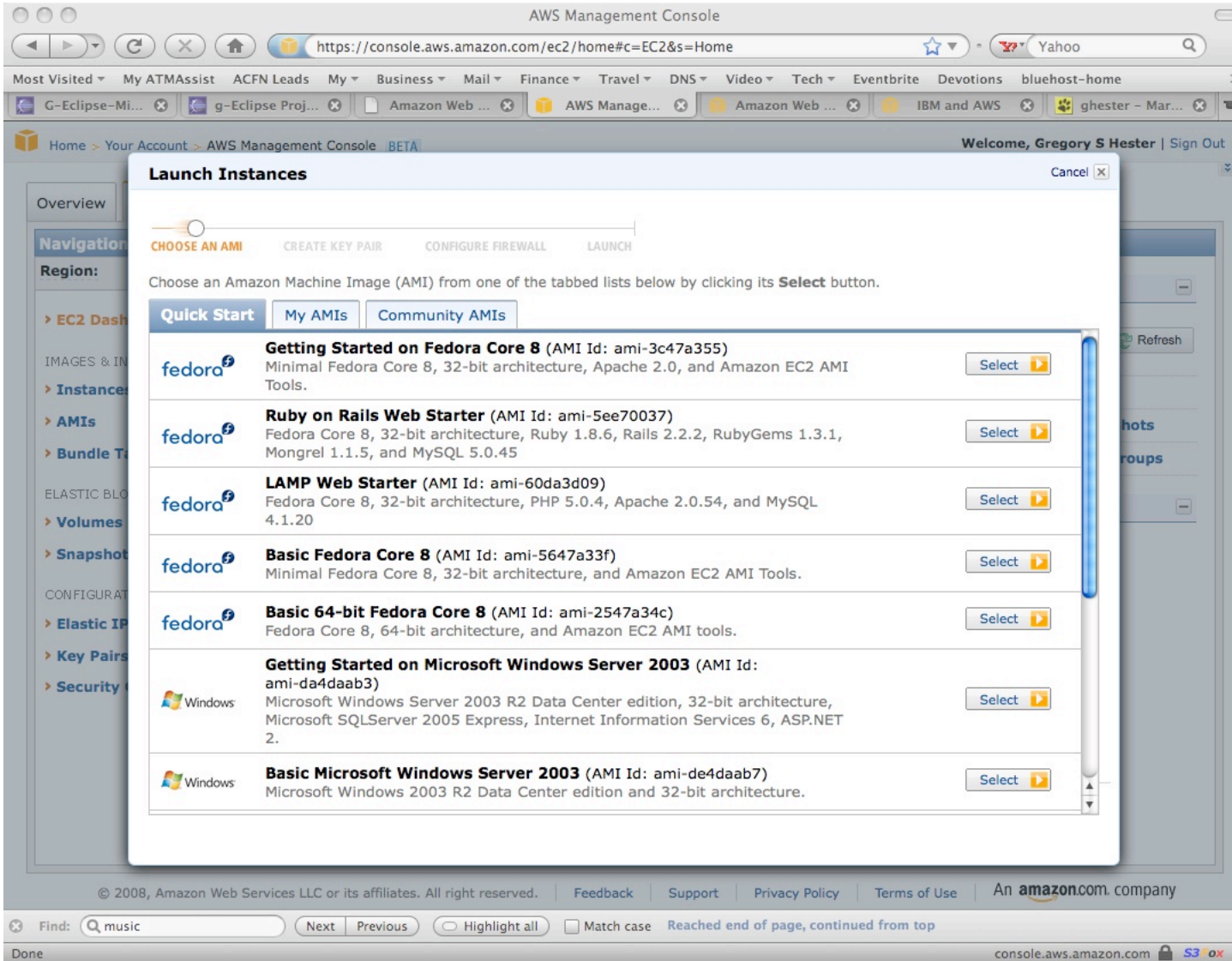
The dashboard is divided into several sections:

- Navigation:** Includes a region selector set to "US-East" and a list of navigation links such as "EC2 Dashboard", "Instances", "AMIs", "Bundle Tasks", "Volumes", "Snapshots", "Elastic IPs", "Key Pairs", and "Security Groups".
- Getting Started:** A yellow box with the text "To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance." and a "Launch Instances" button. A note below states "Note: Your instances will launch in the US-East region."
- My Resources:** A summary of resources in the US-East region:
  - 0 Running Instances
  - 1 Elastic IP
  - 0 EBS Volumes
  - 0 EBS Snapshots
  - 3 Key Pairs
  - 2 Security Groups
- Service Health:** A table showing the current status of the service:
 

Current Status	Details
✓ Amazon EC2 (US)	Service is operating normally <a href="#">View complete service health details</a>
- Related Links:** A list of links including "Documentation", "All EC2 Resources", "Forums", "Feedback", and "Report an Issue".

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# EC2 Instance - Launch



AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=Home

Welcome, Gregory S Hester | Sign Out

### Launch Instances

CHOOSE AN AMI CREATE KEY PAIR CONFIGURE FIREWALL LAUNCH

Choose an Amazon Machine Image (AMI) from one of the tabbed lists below by clicking its **Select** button.

Quick Start My AMIs Community AMIs

- Getting Started on Fedora Core 8** (AMI Id: ami-3c47a355)  
Minimal Fedora Core 8, 32-bit architecture, Apache 2.0, and Amazon EC2 AMI Tools. [Select](#)
- Ruby on Rails Web Starter** (AMI Id: ami-5ee70037)  
Fedora Core 8, 32-bit architecture, Ruby 1.8.6, Rails 2.2.2, RubyGems 1.3.1, Mongrel 1.1.5, and MySQL 5.0.45. [Select](#)
- LAMP Web Starter** (AMI Id: ami-60da3d09)  
Fedora Core 8, 32-bit architecture, PHP 5.0.4, Apache 2.0.54, and MySQL 4.1.20. [Select](#)
- Basic Fedora Core 8** (AMI Id: ami-5647a33f)  
Minimal Fedora Core 8, 32-bit architecture, and Amazon EC2 AMI Tools. [Select](#)
- Basic 64-bit Fedora Core 8** (AMI Id: ami-2547a34c)  
Fedora Core 8, 64-bit architecture, and Amazon EC2 AMI tools. [Select](#)
- Getting Started on Microsoft Windows Server 2003** (AMI Id: ami-da4daab3)  
Microsoft Windows Server 2003 R2 Data Center edition, 32-bit architecture, Microsoft SQLServer 2005 Express, Internet Information Services 6, ASP.NET 2. [Select](#)
- Basic Microsoft Windows Server 2003** (AMI Id: ami-de4daab7)  
Microsoft Windows 2003 R2 Data Center edition and 32-bit architecture. [Select](#)

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# EC2 Instances

AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=Instances

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Home > Your Account > AWS Management Console **BETA** Welcome, Gregory S Hester | Sign Out

Overview **Amazon EC2** Amazon Elastic MapReduce

**Navigation**

Region: US-East

**EC2 Dashboard**

IMAGES & INSTANCES

- Instances**
- AMIs
- Bundle Tasks

ELASTIC BLOCK STORE

- Volumes
- Snapshots

CONFIGURATION

- Elastic IPs
- Key Pairs
- Security Groups

**My Instances**

Launch Instance Reboot Terminate Connect Output More Actions Show/Hide Refresh Help

Viewing: All Instances 1 to 4 of 4 Instances

Instance	AMI ID	Security Groups	Type	Status	Public DNS	Key Pair Name
<input type="checkbox"/> i-e531598c	ami-11ca2d78	WebServer	m1.small	terminated		tomcat
<input type="checkbox"/> i-e431598d	ami-11ca2d78	WebServer	m1.small	terminated		tomcat
<input type="checkbox"/> i-e731598e	ami-11ca2d78	WebServer	m1.small	terminated		tomcat
<input type="checkbox"/> i-db3159b2	ami-d1ca2db8	WebServer	m1.small	terminated		tomcat

**0 EC2 Instances selected**

Select an instance above to view information about it here

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# EC2 AMIs

AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=Images

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Overview **Amazon EC2** Amazon Elastic MapReduce

**Navigation**

Region: US-East

- > EC2 Dashboard
- IMAGES & INSTANCES
  - > Instances
  - > **AMIs**
  - > Bundle Tasks
- ELASTIC BLOCK STORE
  - > Volumes
  - > Snapshots
- CONFIGURATION
  - > Elastic IPs
  - > Key Pairs
  - > Security Groups

**Amazon Machine Images**

Launch Register New AMI De-register Permissions Show/Hide Refresh Help

Viewing: All Images All Platforms 1 to 50 of 1925 AMIs

AMI ID	Manifest	Visibility	Platform
<input type="checkbox"/> ami-0022c769	level22-ec2-images/ubuntu-7.04-feisty-base-20071225a.manifest.xml	Public	Ubuntu
<input type="checkbox"/> ami-0029ce69	ec2-public-windows-images/SqlSvrExp2003r2-x86_64-WinAuth-v1.05.n	Public	Windows
<input type="checkbox"/> ami-005db969	alestic-64/ubuntu-8.04-hardy-base-64-20081222.manifest.xml	Public	Ubuntu
<input type="checkbox"/> ami-005eba69	kaavo-ntier-db/imod-ntier-32bit-FC-DB.manifest.xml	Public	Other Linux
<input type="checkbox"/> ami-0129cc68	cer-64-centos5_10-1/i/image.manifest.xml	Public	Cent OS
<input type="checkbox"/> ami-0129ce68	ec2-public-windows-images/SqlSvrStd2003r2-x86_64-Win-v1.05.manife	Public	Windows
<input type="checkbox"/> ami-0146a168	zementis.adapa-2.14.ec2.public.small/i/image.manifest.xml	Public	Other Linux
<input type="checkbox"/> ami-014da868	ami.alurium.com/image_bundles/Fedora6_Jetty_OpenBD/image.manife	Public	Fedora
<input type="checkbox"/> ami-015db968	alestic-64/ubuntu-8.04-hardy-rightsacle-64-20081222.manifest.xml	Public	Ubuntu
<input type="checkbox"/> ami-01648368	rbuilder-online/dj-flatpress-1-x86_64_19855.img.manifest.xml	Public	Other Linux

0 Amazon Machine Images selected

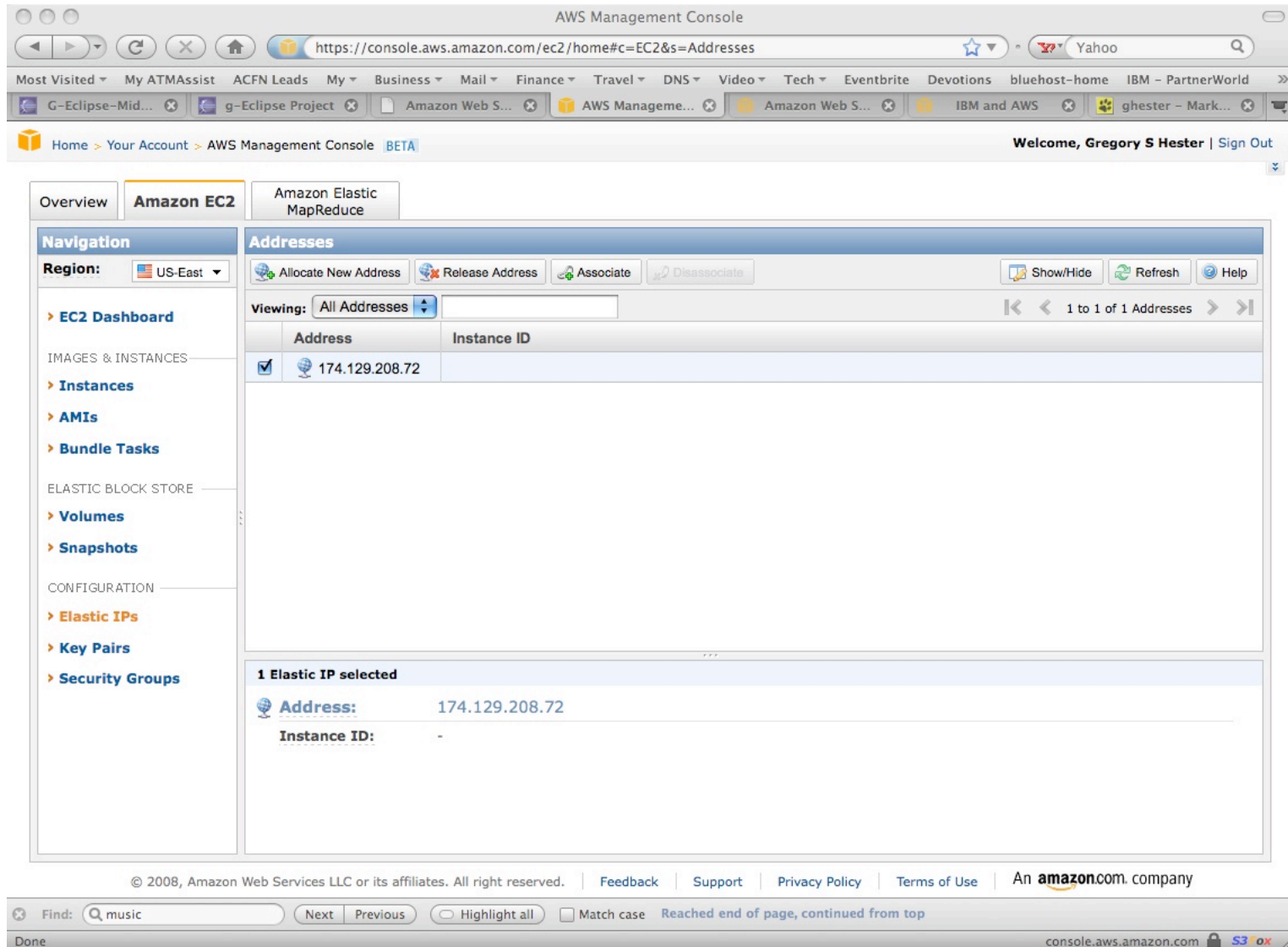
Select an AMI above to view information about it here

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# EC2 Elastic IPs



AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=Addresses

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Overview **Amazon EC2** Amazon Elastic MapReduce

Navigation  
Region: US-East

- EC2 Dashboard
- IMAGES & INSTANCES
  - Instances
  - AMIs
  - Bundle Tasks
- ELASTIC BLOCK STORE
  - Volumes
  - Snapshots
- CONFIGURATION
  - Elastic IPs**
  - Key Pairs
  - Security Groups

Addresses

Allocate New Address Release Address Associate Disassociate Show/Hide Refresh Help

Viewing: All Addresses 1 to 1 of 1 Addresses

Address	Instance ID
<input checked="" type="checkbox"/> 174.129.208.72	

1 Elastic IP selected

Address: 174.129.208.72  
Instance ID: -

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# EC2 Key Pairs

AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=KeyPairs

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Home > Your Account > AWS Management Console **BETA** Welcome, Gregory S Hester | Sign Out

Overview **Amazon EC2** Amazon Elastic MapReduce

**Navigation**

Region: US-East

- EC2 Dashboard
- IMAGES & INSTANCES
  - Instances
  - AMIs
  - Bundle Tasks
- ELASTIC BLOCK STORE
  - Volumes
  - Snapshots
- CONFIGURATION
  - Elastic IPs
  - Key Pairs**
  - Security Groups

**Key Pairs**

Create Key Pair Delete Show/Hide Refresh Help

Viewing: All Key Pairs 1 to 3 of 3 Key Pairs

	Key Pair Name	Fingerprint
<input checked="" type="checkbox"/>	tomcat	12:84:52:e7:2f:85:59:14:33:e6:ce:91:12:44:8a:2d:a1:3d:89:be
<input type="checkbox"/>	gsg-keypair	68:10:08:07:46:5a:26:af:bf:b7:61:b9:88:6a:61:7f:25:bf:c8:f6
<input type="checkbox"/>	id_rsa-gsg-keypair	6c:89:a8:00:57:14:27:1c:2c:c1:27:e7:70:5b:73:50:8a:7c:2d:dd

1 Key Pair selected

**Key Pair Name:** tomcat

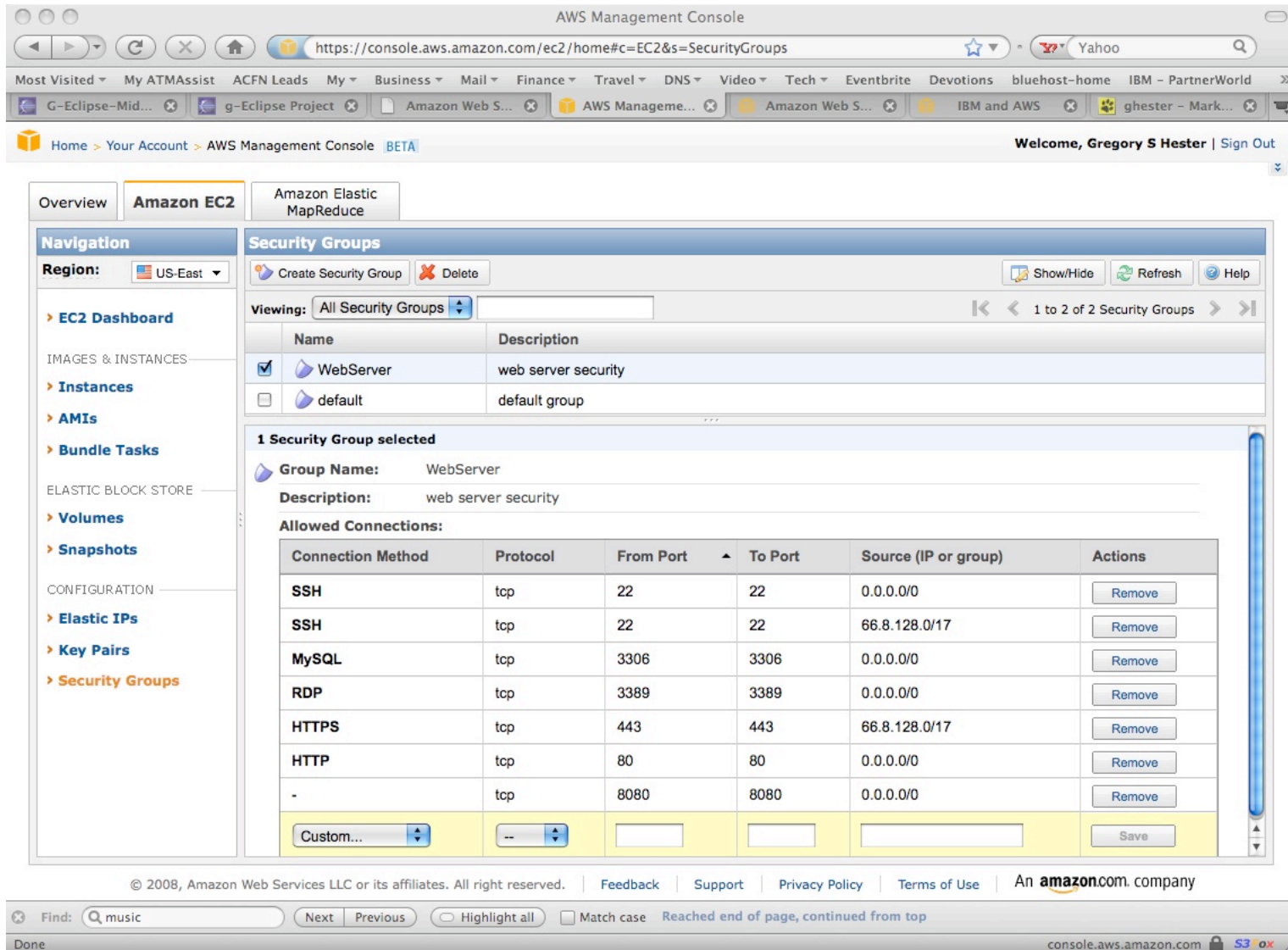
**Fingerprint:** 12:84:52:e7:2f:85:59:14:33:e6:ce:91:12:44:8a:2d:a1:3d:89:be

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# EC2 Security Groups



AWS Management Console

https://console.aws.amazon.com/ec2/home#c=EC2&s=SecurityGroups

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Home > Your Account > AWS Management Console **BETA** Welcome, Gregory S Hester | Sign Out

Overview **Amazon EC2** Amazon Elastic MapReduce

**Navigation**

Region: US-East

> **EC2 Dashboard**

IMAGES & INSTANCES

> Instances

> AMIs

> Bundle Tasks

ELASTIC BLOCK STORE

> Volumes

> Snapshots

CONFIGURATION

> Elastic IPs

> Key Pairs

> **Security Groups**

**Security Groups**

Create Security Group Delete Show/Hide Refresh Help

Viewing: All Security Groups 1 to 2 of 2 Security Groups

Name	Description
<input checked="" type="checkbox"/> WebServer	web server security
<input type="checkbox"/> default	default group

**1 Security Group selected**

Group Name: WebServer

Description: web server security

**Allowed Connections:**

Connection Method	Protocol	From Port	To Port	Source (IP or group)	Actions
SSH	tcp	22	22	0.0.0.0/0	Remove
SSH	tcp	22	22	66.8.128.0/17	Remove
MySQL	tcp	3306	3306	0.0.0.0/0	Remove
RDP	tcp	3389	3389	0.0.0.0/0	Remove
HTTPS	tcp	443	443	66.8.128.0/17	Remove
HTTP	tcp	80	80	0.0.0.0/0	Remove
-	tcp	8080	8080	0.0.0.0/0	Remove
Custom...	--				Save

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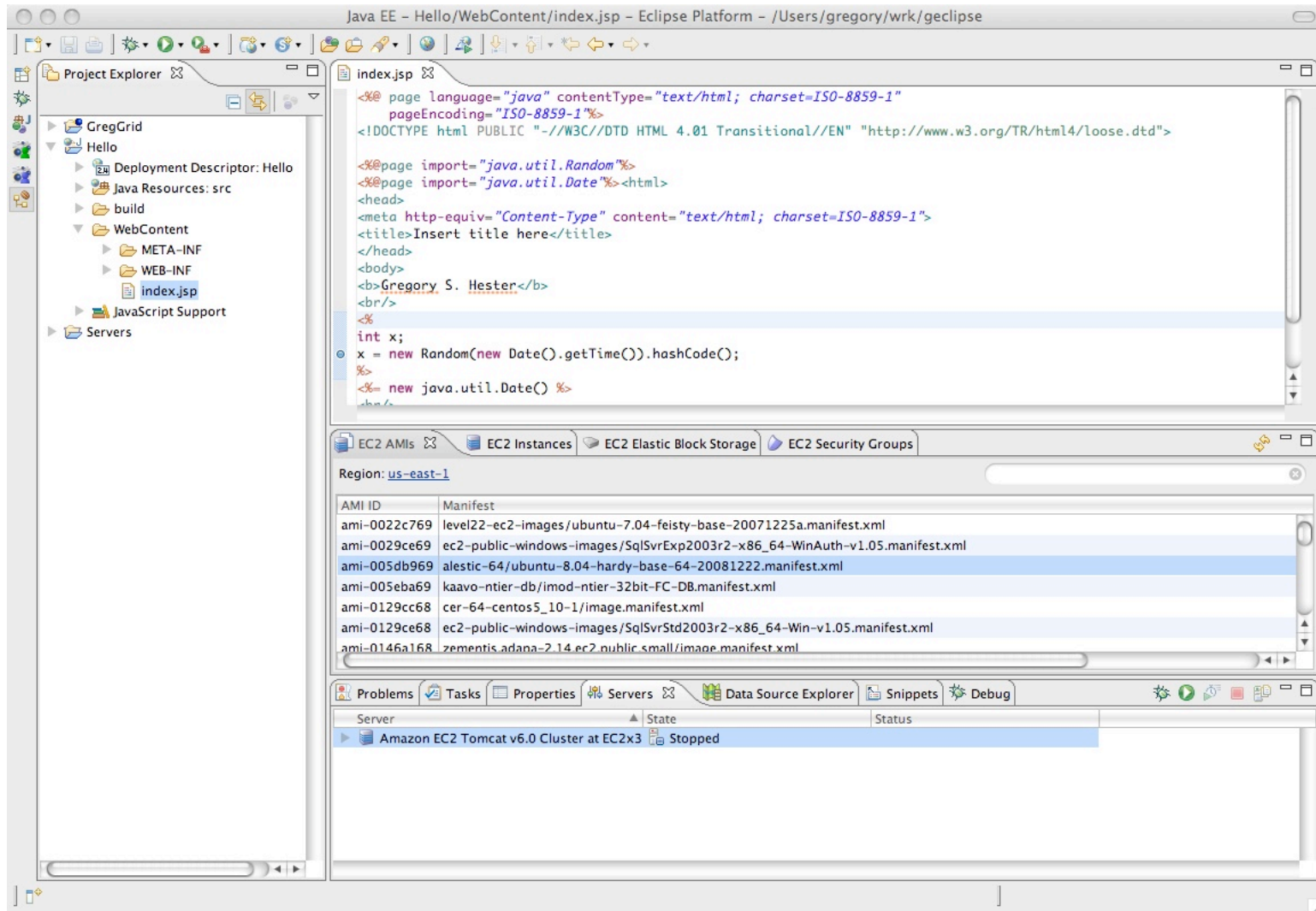
## From Amazon

- AWS Toolkit for Eclipse
  - <http://aws.amazon.com/eclipse/>
- Developing Java Web Applications with Apache Tomcat and AWS
  - <http://developer.amazonwebservices.com/connect/entry.jspa?externalID=2241>

## From Eclipse

- g-Eclipse Project (Tools for Grid & Cloud Computing)
  - <http://www.eclipse.org/geclipse/>
- g-Eclipse and AWS
  - <http://www.eclipse.org/geclipse/gettingstarted.php>

# Eclipse EC2 AMIs



The screenshot shows the Eclipse IDE interface. The top editor displays the content of `index.jsp`:

```
<%@ page language="java" contentType="text/html; charset=ISO-8859-1"
    pageEncoding="ISO-8859-1"%>
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">

<%@page import="java.util.Random"%>
<%@page import="java.util.Date"%><html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<b>Gregory S. Hester</b>
<br/>
<%
int x;
x = new Random(new Date().getTime()).hashCode();
%>
<%= new java.util.Date() %>
</body>
</html>
```

Below the editor, the **EC2 AMIs** view is open, showing a list of AMIs in the `us-east-1` region:

AMI ID	Manifest
ami-0022c769	level22-ec2-images/ubuntu-7.04-feisty-base-20071225a.manifest.xml
ami-0029ce69	ec2-public-windows-images/SqlSvrExp2003r2-x86_64-WinAuth-v1.05.manifest.xml
ami-005db969	alestic-64/ubuntu-8.04-hardy-base-64-20081222.manifest.xml
ami-005eba69	kaavo-ntier-db/imod-ntier-32bit-FC-DB.manifest.xml
ami-0129cc68	cer-64-centos5_10-1/image.manifest.xml
ami-0129ce68	ec2-public-windows-images/SqlSvrStd2003r2-x86_64-Win-v1.05.manifest.xml
ami-0146a168	zementis.adana-2.14.ec2-public-small/image.manifest.xml

At the bottom, the **Servers** view shows a single server: `Amazon EC2 Tomcat v6.0 Cluster at EC2x3`, which is currently `Stopped`.

# Eclipse EC2 Instances

Java EE - Hello/WebContent/index.jsp - Eclipse Platform - /Users/gregory/wrk/geclipse

Project Explorer: GregGrid, Hello, Deployment Descriptor: Hello, Java Resources: src, build, WebContent (META-INF, WEB-INF, index.jsp), JavaScript Support, Servers

```

<?xml version="1.0" encoding="UTF-8" ?>
<!-- @page language="java" contentType="text/html; charset=ISO-8859-1"
pageEncoding="ISO-8859-1" -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<?xml-stylesheet type="text/css" href="resources/css/default.css" ?>
<?page import="java.util.Random"%>
<?page import="java.util.Date"%><html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
<b>Gregory S. Hester</b>
<br/>
<?
int x;
x = new Random(new Date().getTime()).hashCode();
%>
<?=> new java.util.Date() %>
</body>
</html>

```

EC2 AMIs | EC2 Instances | EC2 Elastic Block Storage | EC2 Security Groups

Region: us-east-1

Instance ID	Public DNS Name	State	Type	Availability Zone	Image ID	Key Pair	Launch Time
i-e531598c		terminated	m1.small		ami-11ca2d78	tomcat	Apr 20, 2009
i-e431598d		terminated	m1.small		ami-11ca2d78	tomcat	Apr 20, 2009
i-e731598e		terminated	m1.small		ami-11ca2d78	tomcat	Apr 20, 2009
i-db3159b2		terminated	m1.small		ami-d1ca2db8	tomcat	Apr 20, 2009
i-5b365e32		pending	m1.small	us-east-1b	ami-11ca2d78	tomcat	Apr 20, 2009
i-5a365e33	ec2-67-202-12-231.compute-1.amazonaws.com	running	m1.small	us-east-1b	ami-11ca2d78	tomcat	Apr 20, 2009
i-5d365e34	ec2-174-129-182-175.compute-1.amazonaws.com	running	m1.small	us-east-1b	ami-11ca2d78	tomcat	Apr 20, 2009

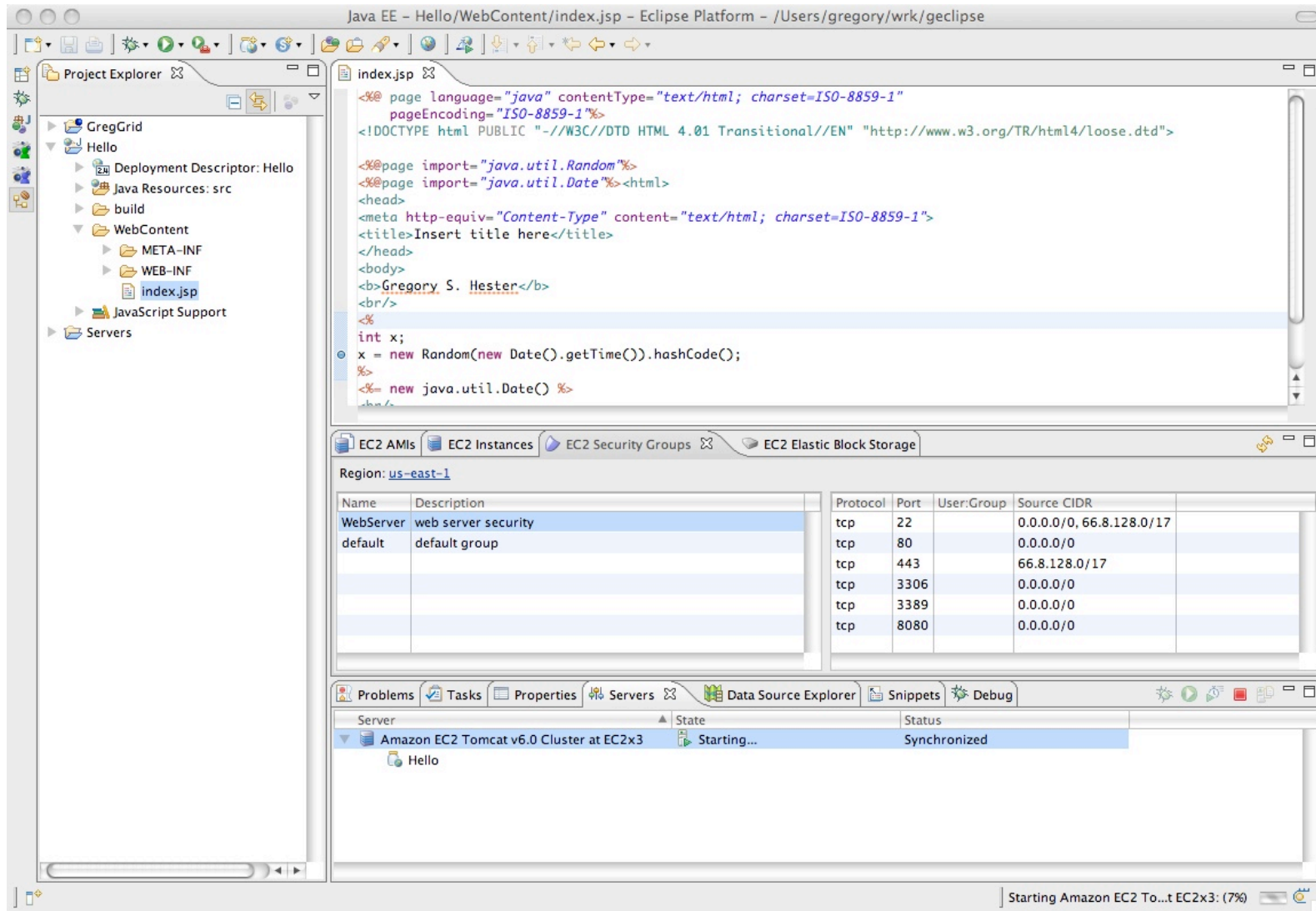
Problems | Tasks | Properties | Servers | Data Source Explorer | Snippets | Debug

Server: Amazon EC2 Tomcat v6.0 Cluster at EC2x3 (Starting..) | Status: Synchronized

Starting Amazon EC2 To...t EC2x3: (7%)



# Eclipse EC2 Security Groups



The screenshot shows the Eclipse IDE interface. The top editor displays the code for `index.jsp`, which includes HTML headers and a Java snippet for generating a random number and date. The left-hand Project Explorer shows the project structure for `GregGrid`, including `Hello`, `WebContent`, and `index.jsp`.

The bottom-right pane shows the `EC2 Security Groups` configuration for the `us-east-1` region. It displays a table of security groups:

Name	Description	Protocol	Port	User:Group	Source CIDR
WebServer	web server security	tcp	22		0.0.0.0/0, 66.8.128.0/17
default	default group	tcp	80		0.0.0.0/0
		tcp	443		66.8.128.0/17
		tcp	3306		0.0.0.0/0
		tcp	3389		0.0.0.0/0
		tcp	8080		0.0.0.0/0

The bottom status bar shows the server `Amazon EC2 Tomcat v6.0 Cluster at EC2x3` is in a `Starting...` state, and the `Hello` application is `Synchronized`.

# Eclipse EC2 Tomcat Server

New Server

**Define a New Server**  
Choose the type of server to create

Server's host name: EC2x5 [Download additional server adapters](#)

Select the server type:

type filter text

- Apache
  - Amazon EC2 Tomcat v6.0 Cluster
- Basic

A cluster of Tomcat v6.0 hosts running in Amazon's EC2 infrastructure.

Server name: Amazon EC2 Tomcat v6.0 Cluster at EC2x5

Server runtime environment: Apache Tomcat v6.0 [Add...](#)  
[Configure runtime environments...](#)

< Back Next > Cancel Finish

New Server

**Configure Cluster Settings**  
Configure your Amazon EC2 Tomcat cluster

Cluster Settings:

EC2 Region: us-east-1

Cluster Size: 5

Instance Type: Small

Key Pair:

Name
gsg-keypair
id_rsa-gsg-keypair
tomcat

Security Group:

Name	Description
WebServer	web server security
default	default group

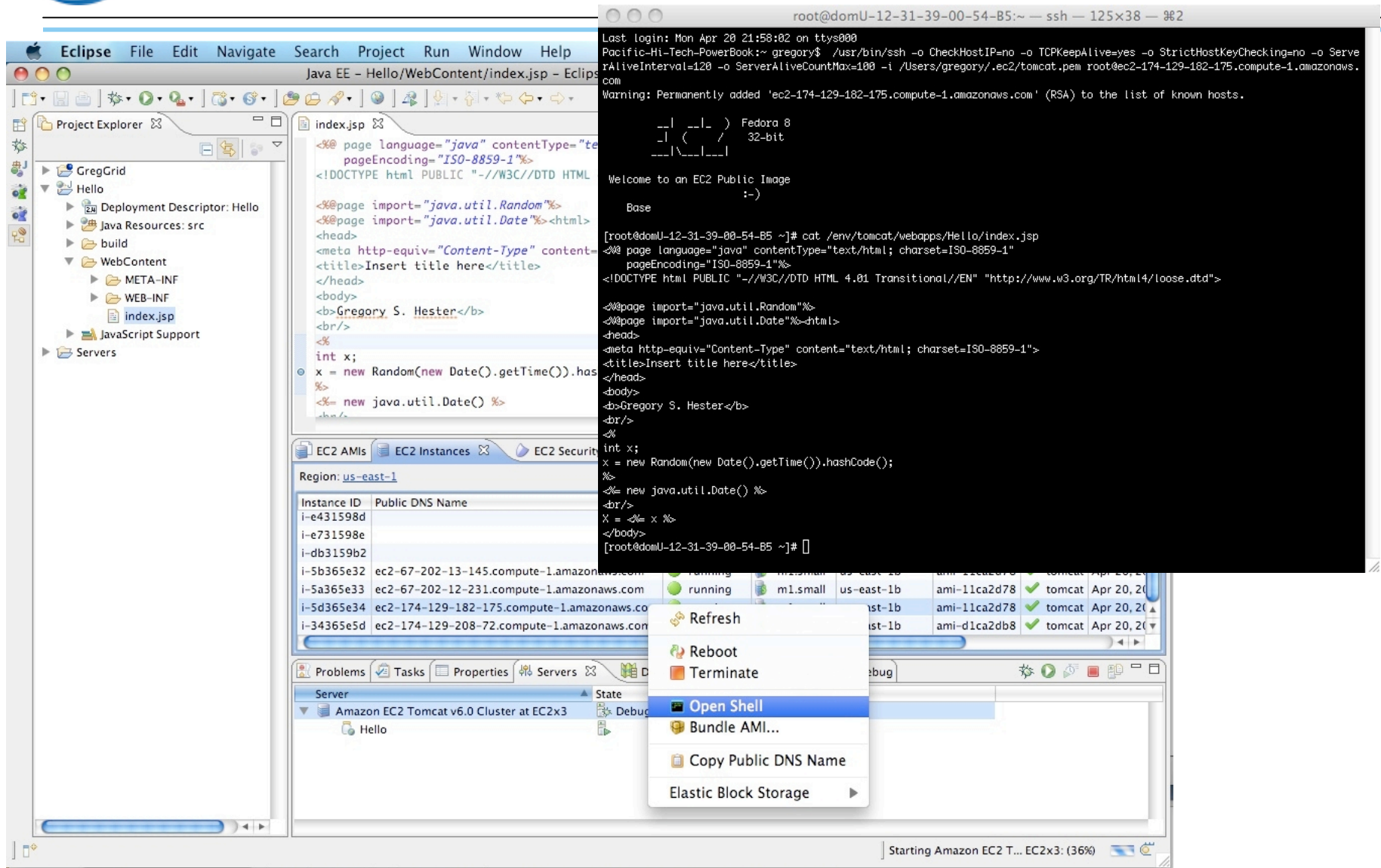
Optional Settings:

Elastic IP:	Attached Instance
174.129.208.72	

*You will be charged the hourly rate for any instances you launch until you successfully shut them down.*

< Back Next > Cancel Finish

# Eclipse Launch Console



The screenshot displays the Eclipse IDE interface. On the left, the Project Explorer shows a project named 'Hello' with a 'WebContent' folder containing 'index.jsp'. The main editor shows the content of 'index.jsp', which includes a JSP page with a title 'Insert title here' and a body containing the name 'Gregory S. Hester'. Below the editor, the 'EC2 Instances' view shows a table of instances in the 'us-east-1' region. A context menu is open over the table, with 'Open Shell' selected. The terminal window on the right shows the output of an SSH session, including a warning about RSA keys and the execution of a 'cat' command to view the contents of the 'index.jsp' file on the remote server.

Instance ID	Public DNS Name
i-e431598d	
i-e731598e	
i-db3159b2	
i-5b365e32	ec2-67-202-13-145.compute-1.amazonaws.com
i-5a365e33	ec2-67-202-12-231.compute-1.amazonaws.com
i-5d365e34	ec2-174-129-182-175.compute-1.amazonaws.com
i-34365e5d	ec2-174-129-208-72.compute-1.amazonaws.com



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