

```
...izationId": "30",  
...nerIds": [  
  "28006"
```

Openshift

```
...title": "  
  "10000"  
,  
...decisionTypeId": "Γ.3.5",  
...thematicCategoryIds": [  
  "611"  
],
```

```
...extraFieldValue": {  
  "ειδοςΥποΜεταβολη": "Τυτάνη",  
  "documentType": "ΠΡΑΞΗ",  
  "16/07/2014"
```

Βασίλειος Καραβασίλης
Μονάδα Αριστείας ΕΛΛΑΚ

ΕΤΕΠΗ 16/07/2014

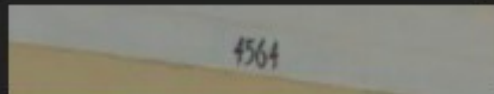
Create an account

Email address

Password

Password confirmation

Are you a spam bot?



[Get Another](#) [Get an audio CAPTCHA](#) [Help](#)

reCAPTCHA provided by Google - help fight spam and fix books!

By signing up you agree to the [Terms of Service](#) and the [Privacy Policy](#)

[Sign Up](#)

Already have an account? [Sign in](#)

You'll love OpenShift because It has:

- Built-in support for Java, Node.js, Ruby, Python, PHP, Perl and extensible functionality to add other languages.
- Powerful command line client tools and a web management console to launch and manage your applications
- Pre-created quickstarts to Instantaneously boot your favorite application framework
- A vibrant community backed by an army of developers, evangelists, and OpenShift devotees.
- A wide range of developer resources, including technology specific get started pages, how-to blog posts and videos.

Learn more about [OpenShift](#)

Κάνουμε sign up

Μετά το email που θα μας έρθει, κάνοντας login πάμε στην αρχική σελίδα

Welcome to OpenShift

OpenShift helps you build and deploy web applications, mobile backends, service oriented architectures, and host your favorite services.

1. Choose a web framework or codebase to start from

Try JBoss, PHP, Python, Ruby, Node.js, or create a new Drupal or Wordpress site instantly.

2. Add cartridges like MySQL or MongoDB to your application

OpenShift lets you add services and tools to your application through **cartridges** - including databases, cache servers, management tools, and continuous integration servers.

3. Upload your code to OpenShift via Git

Your source code is stored with your application in a Git version control repository.

→ [Create your first application now](#)

For more about OpenShift, see the [How it Works](#) page.

Επιλέγουμε Settings και στο Namespace επιλέγουμε την κατάληξη που θέλουμε να έχουν οι διάφορες εφαρμογές

Settings

 You need to set a namespace before you can create applications

Namespace

Your namespace is unique to your account and is the suffix of the public URLs we assign to your applications. See [the User Guide](#) for information about adding your own domain names to an application.

http://applicationname- .rhcloud.com

Your domain name must be letters or numbers with no spaces or symbols.

Save

Public Keys

OpenShift uses a public key to securely encrypt the connection between your local machine and your application and to authorize you to upload code. You must create a private and public key on your local machine and then upload the public key before you can connect to your applications' Git repositories or remotely access your applications.

[Learn more about SSH keys.](#)

Paste the contents of your public key file (.pub)

The contents of your public key file

Save

Μας ενημερώνει ότι
φτιάχτηκε η κατάληξη.

Settings

✓ The domain 'ioamaellak' has been created

i You need to set a public key before you can work with application code

Public Keys

OpenShift uses a public key to securely encrypt the connection between your local machine and your application and to authorize you to upload code. You must create a private and public key on your local machine and then upload the public key before you can connect to your applications' Git repositories or remotely access your applications.

[Learn more about SSH keys.](#)

Paste the contents of your public key file (.pub)

The contents of your public key file

Save

Domains

See the [User Guide](#) for information about adding your own domain names to an application.

ioamaellak

0 applications

No other members

Getting Started with OpenShift Online



WEB

Fastest way to start

Quickly create an app from any browser

Good for:

Launching new applications
Management and monitoring



COMMAND LINE

Code and manage everywhere

Full control of your applications and code on any platform

Good for:

Coding and debugging
Application management



IDE

Rapid development with an IDE

Seamless integration with the Eclipse development platform

Good for:

Coding and debugging
Application management

JBoss Developer Studio, with its Eclipse Based integrated development environment, gives developers everything they need to build rich web applications and transactional enterprise applications. It integrates with the OpenShift platform to put the ability to create, edit, and deploy applications right at your fingertips.



1 Sign up for an account

Every OpenShift accounts lets you create up to three applications for free and see the benefits of running those apps in the cloud. Try it out today.

2 Download JBoss Developer Studio (sign-in required)

Documents

- [Step by Step: Install JBoss Developer Studio with OpenShift](#)
- [OpenShift: Tools Documentation](#)

Videos

- [Installation, HTML5, Mobil and OpenShift](#)

Επιλέγουμε OPENSIFT
-> DEV CENTER
-> Get Started
-> IDE
Στην σελίδα πατάμε το
Download JBoss

Red Hat JBoss Developer Studio

Technology > Products > JBoss Developer Studio

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Overview

Single Development Tool, Tailored for Extreme Productivity.

JBoss® Developer Studio provides superior support for your entire development lifecycle. It includes a broad set of tooling capabilities and support for multiple programming models and frameworks, including Java™ Enterprise Edition 6, RichFaces, JavaServer Faces (JSF), Enterprise JavaBeans (EJB), Java Persistence API (JPA), and Hibernate®, JAX-RS with RESTEasy, Contexts Dependency Injection (CDI), HTML5, and many other popular technologies. It provides developer choice in supporting multiple JVMs, productivity with Maven, and in testing with Arquillian. It is fully tested and certified to ensure that all its plug-ins, runtime components, and their dependencies are compatible with each other.



Eclipse Based

Built on Eclipse, it provides superior support for your entire development lifecycle. It includes features that will help you quickly get started developing java applications.



Broad set of tooling capabilities

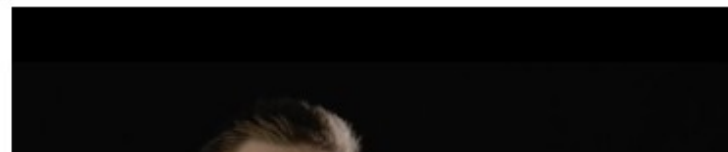
Provides developer choice by including a broad set of tooling capabilities for multiple programming models and frameworks. Easily performs JBoss and OpenShift deployment models with hot deployment support.



Mobile made easy

With LiveReload, BrowserSim, and jQuery Mobile Tools, we make developing for mobile environments simple.

JBoss Developer Studio Overview



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Επιλέγουμε
Create Account

Βάζουμε το email μας

Don't have an account?

As first step in registration we need to check your e-mail address.

Your email address:

ioa.ma.ellak@gmail.com

Confirm address



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



ψηφιακή **εΡΕΥΝΑ**
Όλα είναι δυνατά
Επικρατικό Πρόγραμμα
"Ψηφιακή Σύγκλιση"



Διασυνδέοντας την Έρευνα και τ



ΕΣΠΑ
2007-2013
Πρόγραμμα για την ανάπτυξη
Ποιότητα ζωής για όλους



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΙΩΑΝΝΙΝΩΝ



Επιστημονικό &
Τεχνολογικό
Πάρκο
Ηπείρου



MEDICAL TECHNOLOGY
MedLab
INTELLIGENT
INFORMATION SYSTEMS

Thank you



Please check your email shortly at:

ioa.ma.ellak@gmail.com

You will receive a message that contains further instructions on how to proceed.

Μας λέει ότι μας έστειλε
email



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



ψηφιακή **ε**ΡΧάδα
Όλα είναι δυνατά
Επικερπικό Πρόγραμμα
"Ψηφιακή Σύγκληση"



Διασυνδέοντας την Έρευνα και τ



Ποιότητα ζωής για όλους



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΙΩΑΝΝΙΝΩΝ



Επιστημονικό &
Τεχνολογικό
Πάρκο
Ηπείρου



MEDICAL TECHNOLOGY
INTELLIGENT
INFORMATION SYSTEMS



Αφού μας έρθει
το email, πατάμε
στο link και
μας πάει στην
σελίδα όπου
συμπληρώνουμε
τα στοιχεία μας

Create your account

First Name (Required)

Last Name (Required)

Username (Required)

Email (Required)

ioa.ma.ellak@gmail.com

Password (Required)

Confirm Password (Required)

Time Zone

(GMT -12:00 hours) Eniwetok, Kwajalein

URL

http://

Στην συνέχεια πάμε
σε αυτή την σελίδα.
Δεν κάνουμε τίποτα εδώ.

Overview

Activity

Powered by jive

JBoss Enterprise Middleware

JBoss Developer Studio

JBoss EAP

JBoss Fuse

JBoss A-MQ

JBoss Portal

JBoss Fuse Service Works

JBoss Web Server

JBoss BPM Suite

JBoss BRMS

JBoss Data Grid

JBoss Data Virtualization

JBoss Operations Network

Web Interface

GatIn

RichFaces

Community

Wiki

Cloud

Build System

Java EE Design Patterns

Recognition Awards

JUDCon

Legal

Website Issues

Servers

WildFly

WildFly Development

JBoss AS 7

JBoss AS 7 Development

JBoss AS

JBoss AS Development

Beginner's Corner

TOP PARTICIPANTS

jaikiran pai

Ilya Shaikovsky

Adrian Brock

Peter Johnson

Nick Belaeviski

Scott Stark

View all participants

RECENT DISCUSSIONS

Infinispan 6.0 EC2 demo configuration

Problems running integration tests on WildFly managed container

Posting Shutdown Request to the server...

Re: Problem creating service
org.hornetq.service=JBossASSecurityManagerService
java.lang.NoSuchMethodError:
org.jboss.logging.Logger.getMessageLogger(Ljava/lang/

JBoss Tools Community Acceptance Testing

Re: How configure Eclipse (Kepler) to use Wildfly

HTTPS Configuration in a cluster help

Re: Entity getting detached inside transaction

Re: Server deployment of JBPM

Start Jboss when EAR and WAR files are deployed in Domain mode

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- complementing or supplementing third party support services with services received under the Program.

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This download is available under the JBoss Developer Program which you joined on July 15, 2014. View the [terms and conditions](#). Your subscription to the JBoss Developer Program in ends 364 days .

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jQuery Mobile

This video demonstrates the new jQuery Mobile palette in JBoss Developer Studio

Get Started

Instructions for Installation

1. Download [JBoss Developer Studio 7.1.1.GA Installer jar \(with EAP\)](#). Or [See all downloads](#).
2. Make sure you have a JDK of your choice installed. We recommend OpenJDK or Oracle JDK.

For more details, view the [Getting Started Guide](#).

Configure Apache™ Maven

 OSX  Windows  Linux

1. Locate the Maven install directory for your operating system. It is usually installed in `${user.home}/.m2/`.

```
~/.m2/
```
2. If you have an existing `settings.xml` file, rename it so you can restore it later.

```
mv ~/.m2/settings.xml ~/.m2/settings-backup.xml
```
3. If you have an existing `repository/` directory, rename it so you can restore it later. For example

Θα αρχίσει αυτόματα να κατεβάζει το πρόγραμμα

Introduction

Step 1 of 9

JBoss
DEVELOPER STUDIO

 Please read the following information:

This installer will guide you through the installation of **Red Hat JBoss Developer Studio 7.1.1.GA**.

It is strongly recommended that you quit all programs before continuing with this installation.

Click the "Next" button to proceed to the next screen. If you want to change something on a previous screen, click the "Previous" button.

You may stop this installation at any time by clicking the "Quit" button.

Στην συνέχεια εκτελούμε
το αρχείο που κατεβάσαμε
και το εγκαθιστούμε
επιλέγοντας
next ... next

JBoss by Red Hat



End User License Agreement

Step 2 of 9

JBoss
DEVELOPER STUDIO

 Please read the following license agreement carefully:

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Next

- ☒ I accept the terms of this license agreement.
- ☐ I do not accept the terms of this license agreement.

JBoss by Red Hat

 Previous

 Next

 Quit

Select Target Folder

Step 3 of 9

JBoss
DEVELOPER STUDIO

Select the installation path:

/Users/user3/Desktop/testOpenshift/Desktop

Browse...

Next

JBoss by Red Hat

Previous

Next

Quit

Select Java VM

Step 4 of 9

JBoss
DEVELOPER STUDIO

JBoss Developer Studio works with Java 6 and 7 and has been tested with OpenJDK, Oracle and Apple JDK.

☒ Default Java VM

☐ Specific Java VM

/Library/Internet Plug-Ins/JavaAppletPlugin.plugin/Contents/Home

 Browse...

Installation type:

☐ 32-bit

☒ 64-bit

Chosen Java VM is a Java Runtime only, it will run Developer Studio but it is recommended to use a Java SDK.

Next

JBoss by Red Hat

 Previous

 Next

 Quit

Select Platforms and Servers

Step 5 of 9

JBoss
DEVELOPER STUDIO

JBoss Developer Studio includes Red Hat JBoss Enterprise Application Platform. Install it now?

☒ Yes, and have it ready for use in JBoss Developer Studio

☐ No

Add locations you want to be scanned to discover platforms and servers you have:

Location Scan every start

Add...

Edit...

Remove

Next

JBoss by Red Hat

Previous

Next

Quit

Summary Information

Step 6 of 9

JBoss
DEVELOPER STUDIO

Ready to install. Review details below then press 'Next' to start installation.

Installation path:

/Users/user3/Desktop/testOpenshift/Desktop

Java VM path:

default

Components to install:

Red Hat JBoss Developer Studio 7.1.1.GA

Red Hat JBoss Enterprise Application Platform

Disk Space:

Available Disk Space: 22.62 GB

Required Disk Space: 572.02 MB

Next

JBoss by Red Hat

← Previous

Next →

✖ Quit

Installation

Step 7 of 9

JBoss
DEVELOPER STUDIO

Περιμένουμε ...

⚙ Pack installation progress:

/Users/user3/Desktop/testOpenshift/Desktop/studio/jbds_uninstall.ico

P2 Director Application

⚙ Overall installation progress:

1 / 4

JBoss by Red Hat

◀ Previous

Next ▶

✖ Quit

Installation

Step 7 of 9

JBoss
DEVELOPER STUDIO

⚙ Pack installation progress:

[Finished]

⚙ Overall installation progress:

4 / 4

Next

JBoss by Red Hat

← Previous

→ Next

✖ Quit

Finish

Step 9 of 9

JBoss
DEVELOPER STUDIO



Installation has completed successfully.



Run JBoss Developer Studio after installation



An uninstaller program has been created in:
/Users/user3/Desktop/testOpenshift/Desktop/Uninstaller

Done

JBoss by Red Hat



Done



Ευρωπαϊκή Ένωση
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Περιφερειακής
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INFORMATION SYSTEMS



JBoss DEVELOPER STUDIO

Ξεκινά το JBoss
Developer Studio
Εμφανίζει την
συγκεκριμένη εικόνα

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Select a workspace

JBoss Developer Studio stores your projects in a folder called a workspace.
Choose a workspace folder to use for this session.

Workspace: ▼ Browse...

☒ Use this as the default and do not ask again

Cancel OK

Κάποια στιγμή θα εμφανίσει
το συγκεκριμένο παράθυρο.
Επιλέγουμε που θέλουμε να
αποθηκεύονται τα project
και πατάμε OK.

Welcome to JBoss DEVELOPER STUDIO

Workbench



Αν δεν θέλουμε να στέλνιει δεδομένα στην Red Hat, επιλέγουμε NO.



Reporting JBoss Develo...usage: (50%)

Welcome to

Workbench



JBoss DEVELOPER STUDIO

Επιλέγουμε
Get started with
Jboss Central



Get started with JBoss Central



<https://devstudio....positeContent.xml>



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Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



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Όλα είναι δυνατό
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"Ψηφιακή Σύγκλιση"



Διασυνδέοντας την Έρευνα και τ



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Επιλέγουμε
OpenShift
Application

Project E

Package

JBoss Central

Welcome to JBoss

Show on Startup

Start from scratch

HTML5 Project

Richfaces Project

OpenShift Application

Java EE Web Project

Spring Project

Start from a sample

Refreshing...

Tutorial

JBoss Buzz

Development of Hybrid Mobile Tools has moved to Eclipse Foundation 2 days ago by qercan

Getting Started

Software/Update

Other resources

JBoss developer website

Outline

Palette

An outline is not available.

Problems

Properties

Servers

OpenShift Explorer

0 items

Description	Resource	Path	Location	Type

https://devstudio....positeContent.xml

Sign in to OpenShift

You have to provide a password



If you do not have an account on OpenShift, please sign up [here](#).

Connection:

☒ Use default server

Server:

Username:

Password:

☐ Save password (could trigger secure storage)

Βάζουμε το username
και το password
που έχουμε στο
Openshift

< Back

Next >

Cancel

Finish



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



ψηφιακή Ελλάδα
Όλα είναι δυνατά
Ευρωπαϊκό Πρόγραμμα
"Ψηφιακή Σύγκληση"



Add SSH Keys

You have no SSH public keys in your OpenShift account
ioa.ma.ellak@gmail.com yet, please add your key(s) or
create new one(s)



OPENSHIFT

SSH Public Keys

Name	Type	Content

Add Existing...

New...

Remove...

Refresh...

Εμφανίζει αυτόματα το
παράθυρο.
Επιλέγουμε New...

Please make sure that your private keys for these public keys are listed in the
[SSH2 Preferences](#)

Cancel

Finish

Add new SSH key

You have to provide a key name



New SSH Key

Name: *

Key Type: SSH_RSA

SSH Home: /Users/user3/.ssh ☒ Default

Private Key File Name: *

Private Key Passphrase:

Public Key File Name: *

The private key of your new SSH key pair will get added to the [SSH2 Preferences](#)

Cancel

Finish

Εμφανίζει
νέο
παράθυρο

Add new SSH key

Add a new SSH key to your OpenShift user
ioa.ma.ellak@gmail.com



OPENSIFT

New SSH Key

Name: testphp

Key Type: SSH_RSA

SSH2 Home: /Users/user3/.ssh Browse... ☒ Default

Private Key File Name: id_rsa

Private Key Passphrase:

Public Key File Name: id_rsa.pub

The private key of your new SSH key pair will get added to the
[SSH2 Preferences](#)

Cancel

Finish

Βάζουμε κάποια
ονόματα και
πατάμε
finish
(καλύτερα να
βάλουμε
id_rsa
και
id_rsa.pub)

Add SSH Keys

Please make sure you have an SSH public key uploaded to your OpenShift account ioa.ma.ellak@gmail.com



OPENSIFT

SSH Public Keys

Name	Type	Content
testphp	ssh-rsa	AAAAB3NzaC...Nvl...

Add Existing...

New...

Remove...

Refresh...

Please make sure that your private keys for these public keys are listed in the [SSH2 Preferences](#)

Πατάμε
Finish

Cancel

Finish

New or existing OpenShift Application

Create a new OpenShift Application.



Επιλέγουμε το όνομα της εφαρμογής, type = PHP 5.4 και βάζουμε MySQL 5.5 και phpMyAdmin. Πατάμε next

Domain: [Manage Domains](#)

Existing Application

☐ Use existing application:

New application

Name:

Type:

Gear profile: ☐ Enable scaling

Embeddable Cartridges

☐	10gen Mongo Monitoring Service Agent (10gen-mms-agent-0.1)	Select All Deselect All
☐	Cron 1.4 (cron-1.4)	
☐	Jenkins Client (jenkins-client-1)	
☐	MongoDB 2.4 (mongodb-2.4)	
☐	MySQL 5.1 (mysql-5.1)	
☒	MySQL 5.5 (mysql-5.5)	
☐	OpenShift Metrics 0.1 (metrics-0.1)	
☐	PostgreSQL 8.4 (postgresql-8.4)	
☐	PostgreSQL 9.2 (postgresql-9.2)	
☐	RockMongo 1.1 (rockmongo-1.1)	
☐	SwitchYard 0.8.0 (switchyard-0)	
☐	Web Load Balancer (haproxy-1.4)	
☒	phpMyAdmin 4.0 (phpmyadmin-4)	

Set up Project for new OpenShift Application named: "

Configure your project and server adapter settings, then click 'next' or 'finish'.



☒ Create a new project

Use existing project:

Browse...

☒ Create and set up a server for easy publishing

☐ Disable automatic maven build when pushing to OpenShift

Next

< Back

Next >

Cancel

Finish



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



ψηφιακή Ελλάδα
Όλα είναι δυνατά
Επικερπικό Πρόγραμμα
"Ψηφιακή Σύγκληση"



Εμφανίζει μήνυμα
λάθους.

Import an existing OpenShift application

 The location '/Users/user3/git' does not exist or is not writeable.



Cloning settings

☒ Use default clone destination

Git Clone Destination:  /Users/user3/git

Browse...

☒ Use default remote name

Remote name: origin

Make sure that you have SSH keys added to your OpenShift account ioa.ma.ellak@gmail.com via [SSH Keys wizard](#) and that the private keys are listed in [SSH2 Preferences](#)

< Back

Next >

Cancel

Finish



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



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"Ψηφιακή Σύγκληση"



Διασυνδέοντας την Έρευνα και τ



Ποιότητα ζωής για όλους



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΙΩΑΝΝΙΝΩΝ



Επιστημονικό &
Τεχνολογικό
Πάρκο
Ηπείρου



MedLab
INTELLIGENT
INFORMATION SYSTEMS

Import an existing OpenShift application

Configure the cloning settings by specifying the clone destination if you create a new project, and the git remote name if you're using an existing project.



Βάζουμε ένα
άλλο φάκελο.
Πατάμε finish.

Cloning settings

☐ Use default clone destination

Git Clone Destination:

[Browse...](#)

☒ Use default remote name

Remote name:

Make sure that you have SSH keys added to your OpenShift account ioa.ma.ellak@gmail.com via [SSH Keys wizard](#) and that the private keys are listed in [SSH2 Preferences](#)

< Back

Next >

Cancel

Finish

Please make note of the credentials and url that were reported when your cartridges were embedded / application was created.



OPENSIFT

mytestphp

MySQL 5.5 database added. Please make note of these credentials:

Root User: adminmHL8TXX
Root Password: xU9WeUW4Lfil
Database Name: mytestphp

Connection URL: mysql://\$OPENSIFT_MYSQL_DB_HOST:\$OPENSIFT_MYSQL_DB_PORT/

You can manage your new MySQL database by also embedding phpmyadmin.
The phpmyadmin username and password will be the same as the MySQL credentials above.

Please make note of these MySQL credentials again:

Root User: adminmHL8TXX
Root Password: xU9WeUW4Lfil
URL: <https://mytestphp-ioamaellak.rhcloud.com/phpmyadmin/>

Εμφανίζει τους κωδικούς της MySQL. Τους σημειώνουμε.

OK



The authenticity of host 'mytestphp-ioamaellak.rhcloud.com' can't be established.
RSA key fingerprint is cf:ee:77:cb:0e:fc:02:d7:72:7e:ae:80:c0:90:88:a7.
Are you sure you want to continue connecting?

No

Cancel

Yes

Yes



Ευρωπαϊκή Ένωση
Ευρωπαϊκό Ταμείο
Περιφερειακής
Ανάπτυξης



ψηφιακή **Ρ**ημάδα
Όλα είναι δυνατά
Επικρατικό Πρόγραμμα
"Ψηφιακή Σύγκληση"



Διασυνδέοντας την Έρευνα και τ



Πρόγραμμα για την ανάπτυξη
Ποιότητα ζωής για όλους



ΠΑΝΕΠΙΣΤΗΜΙΟ
ΙΩΑΝΝΙΝΩΝ

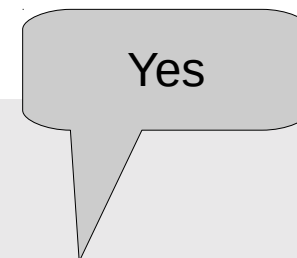


Επιστημονικό &
Τεχνολογικό
Πάρκο
Ηπείρου





/Users/user3/.ssh/known_hosts does not exist.
Are you sure you want to create it?



No

Cancel

Yes



There are committed changes in "mytestphp" that were not pushed to OpenShift yet. Do you want to publish those to OpenShift?

No

Yes

Yes



Publishing to mytestphp at OpenShift...

Publishing mytestphp

☐ Always run in background

Cancel

Details >>

Run in Background

Καθώς στέλνει τα δεδομένα,
μπορούμε να δούμε λεπτομέρειες



Publishing to mytestphp at OpenShift...

Publishing mytestphp

☐ Always run in background



Publishing to mytestphp at OpenShift...



Git Repository Refresh (Blocked: The user operation is waiting for background wo

Refreshing Git managed projects



Building workspace (Waiting)



Cancel

<< Details

Run in Background

Προσπαθεί να το στείλει
(χρησιμοποιεί Git)

Έχει δημιουργηθεί
το νέο project.

JBoss Central

Welcome to JBoss

Start from scratch

- HTML5 Project
- OpenShift Application
- Richfaces Project
- Java EE Web Project
- Maven Project
- Spring Project

Start from a sample

- Web Applications
- Mobile Applications
- Back-end Applications
- Portal Applications

Simplest Hello World Portlet

JSF2 Hello World Portlet

JSF2+RF4 Hello World Portlet

Navigation API Portlet

CDI Generic Portlet

CDI Portlet with ISF

JBoss Buzz

Development of Hybrid Mobile Tools has moved to

JBoss developer website

Getting Started

Software/Update

Problems

Properties

Servers

Console

OpenShift Explorer

mytestphp at OpenShift

Starting MySQL 5.5 cartridge

Starting PHPMyAdmin cartridge

Starting PHP 5.4 cartridge (Apache+mod_php)

Application directory "/" selected as DocumentRoot

Git Post-Receive Result: success

Activation status: success

Deployment completed with status: success

Αν επιλέξουμε
ένα αρχείο μπορούμε
να δούμε τα
περιεχόμενά του.

The screenshot shows an IDE interface with the following components:

- Project Explorer:** Shows the project structure with 'mytestphp' and its sub-files, including 'index.php'.
- Main Editor:** Displays the content of 'index.php', which is an HTML document using Bootstrap v3.0.0. The code includes a head section with meta tags for charset and compatibility, and a style section for a logo.
- Console:** Shows the deployment logs for 'mytestphp at OpenShift'. The logs indicate the successful startup of MySQL 5.5, PHPMyAdmin, and PHP 5.4 cartridges, and the selection of the application directory as the DocumentRoot.

index.php

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
  <title>Welcome to OpenShift</title>

<style>

/*
 * Bootstrap v3.0.0
 *
 * Copyright 2013 Twitter, Inc
 * Licensed under the Apache License v2.0
 * http://www.apache.org/licenses/LICENSE-2.0
 *
 * Designed and built with all the love in the world @twitter by @mdo and @fat.
 */

.logo {
  background-size: cover;
  height: 58px;
  width: 180px;
  margin-top: 6px;
  background-image: url(data:image/svg+xml;base64,PD94bWwgdG9rVyc2lvcj0iMS4wIiB1
}
.logo a {
  display: block;
  width: 100%;
  height: 100%;
}
*, *:before, *:after {
```

mytestphp at OpenShift

```
Starting MySQL 5.5 cartridge
Starting PHPMyAdmin cartridge
Starting PHP 5.4 cartridge (Apache+mod_php)
Application directory "/" selected as DocumentRoot
-----
```

mytestphp-ioamaellak.rhcloud.com

MSI Global P965 Neo JBoss Developer Studio -... Applications | OpenShift... Welcome to OpenShift Getting Started with Ope...

Welcome to your PHP application on OpenShift

Αν πάμε στην σελίδα της εφαρμογής βλέπουμε τι περιέχει το index.php

Deploying code changes

OpenShift uses the [Git version control system](#) for your source code, and grants you access to it via the Secure Shell (SSH) protocol. In order to upload and download code to your application you need to give us your [public SSH key](#). You can upload it within the web console or install the [RHC command line tool](#) and run `rhc setup` to generate and upload your key automatically.

Working in your local Git repository

If you created your application from the command line and uploaded your SSH key, rhc will automatically download a copy of that source code repository (Git calls this 'cloning') to your local system.

If you created the application from the web console, you'll need to manually clone the repository to your local system. Copy the application's source code Git URL and then run:

```
$ git clone <git_url> <directory_to_create>

# Within your project directory
# Commit your changes and push to OpenShift

$ git commit -a -m 'Some commit message'
$ git push
```

- [Learn more about deploying and building your application](#)

Managing your application

Web Console

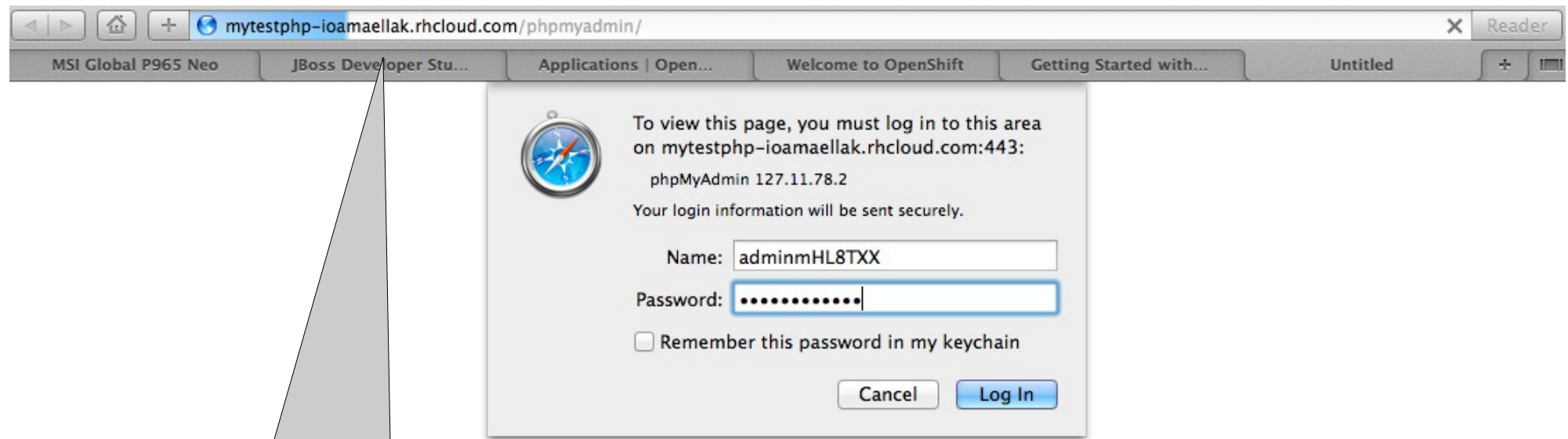
You can use the OpenShift web console to enable additional capabilities via cartridges, add collaborator access authorizations, designate custom domain aliases, and manage domain memberships.

Command Line Tools

Installing the [OpenShift RHC client tools](#) allows you complete control of your cloud environment. Read more on how to manage your application from the command line in our [User Guide](#).

Development Resources

- [Developer Center](#)
- [User Guide](#)
- [OpenShift Support](#)
- [Stack Overflow questions for OpenShift](#)
- [IRC channel at #openshift on freenode.net](#)
- [Git documentation](#)



Στο phpmyadmin
ζητά κωδικό
(είναι ο κωδικός της
MySQL)

MSI Global P965 Neo JBoss Developer Stu... Applications | Open... Welcome to OpenShift Getting Started with... mytestphp-ioamae...

Server: 127.11.78.2:3306

Databases SQL Status Users Export Import Settings Replication More

phpMyAdmin

(Recent tables) ...

- information_schema
- mysql
- mytestphp
- performance_schema

General Settings

[Change password](#)

Server connection collation: utf8_general_ci

Appearance Settings

Language: English

Theme: pmahomme

Font size: 82%

[More settings](#)

Database server

- Server: 127.11.78.2 via TCP/IP
- Server type: MySQL
- Server version: 5.5.37 - MySQL Community Server (GPL)
- Protocol version: 10
- User: adminmHL8TXX@127.11.78.2
- Server charset: UTF-8 Unicode (utf8)

Web server

- Apache/2.2.15 (Red Hat)
- Database client version: libmysql - 5.1.73
- PHP extension: mysqli

phpMyAdmin

- Version information: 4.0.5, latest stable version: 4.2.5
- [Documentation](#)
- [Wiki](#)
- [Official Homepage](#)
- [Contribute](#)
- [Get support](#)
- [List of changes](#)

A newer version of phpMyAdmin is available and you should consider upgrading. The newest version is 4.2.5, released on 2014-06-26.

Το phpmyadmin
έχει ήδη μια
βάση με το όνομα
της εφαρμογής

The screenshot shows the JBoss Central IDE interface. The main editor displays the content of `index.php`:

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>My test PHP</title>
</head>
<body>
  <?php echo "hello"; ?>
</body>
</html>
```

A callout bubble points to the PHP code line, containing the text: **Αλλάζουμε τα περιεχόμενα του index.php**

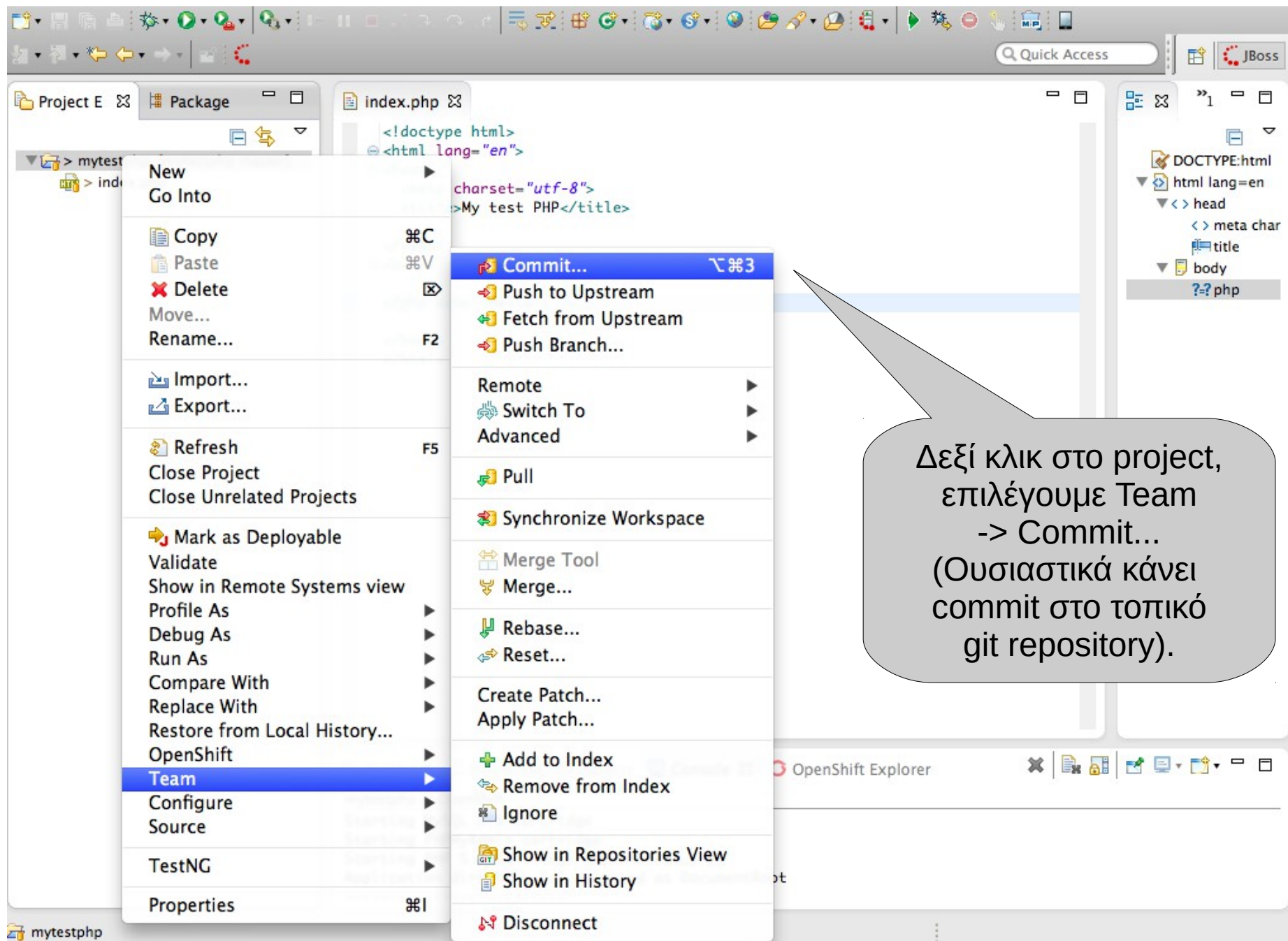
The right sidebar shows a file explorer with the following structure:

- DOCTYPE:html
- html lang=en
 - head
 - meta char
 - title
 - body
 - php

The bottom console window shows the following output:

```
mytestphp at OpenShift
Starting MySQL 5.5 cartridge
Starting PHPMyAdmin cartridge
Starting PHP 5.4 cartridge (Apache+mod_php)
Application directory "/" selected as DocumentRoot
-----
```

At the bottom of the IDE, there are tabs for 'Writable', 'Smart Insert', and a timer showing '10 : 6'.



Commit Changes to Git Repository



Commit message

Create initial index.php.

Author: Vasilhs Karavasilis <vkaravas@cs.uoi.gr>

Committer: Vasilhs Karavasilis <vkaravas@cs.uoi.gr>

Files (1/1)

type filter text

Status	Path
☒ 	index.php

Στο παράθυρο που θα εμφανιστεί, γράφουμε ένα μήνυμα, επιλέγουμε τα αρχεία που θα κάνουμε commit και πατάμε Commit

Commit and Push

Cancel

Commit

Project E Package index.php

mytestphp [mytestphp-master +1]

index.php

New
Go Into
Copy ⌘C
Paste ⌘V
Delete ⌘X
Move...
Rename... F2
Import...
Export...
Refresh F5
Close Project
Close Unrelated Projects
Mark as Deployable
Validate
Show in Remote Systems view
Profile As
Debug As
Run As
Compare With
Replace With
Restore from Local History...
OpenShift
Team
Configure
Source
TestNG
Properties ⌘I

Commit... ⌘⌘3
Push to Upstream
Fetch from Upstream
Push Branch...
Remote
Switch To
Advanced
Pull
Synchronize Workspace
Merge Tool
Merge...
Rebase...
Reset...
Create Patch...
Apply Patch...
Add to Index
Remove from Index
Ignore
Show in Repositories View
Show in History
Disconnect

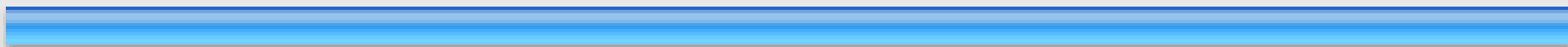
DOCTYPE:html
html lang=en
head
meta char
title
body
php

Για να στείλουμε τις αλλαγές στο κεντρικό git repository της εφαρμογής, κάνουμε δεξί κλικ στο project, επιλέγουμε Team -> Push to Upstream

OpenShift Explorer



Pushing to remote repositories



☐ Always run in background

Push to mytestphp - origin



Pushing to remote repositories:

Βλέπουμε την κατάσταση

Cancel

<< Details

Run in Background

Pushed to mytestphp - origin

▼  master: master [1063f0a..4bbb7e5] (1)

▶  1063f0a7: Create initial index.php. (Vasilhs Karavasilis on Jul 15, 2014 4:27 PM)

Message Details

Repository
ssh://53c528ed5973ca93ed0002a5@mytestphp-ioamaellak.rhcl

Stopping MySQL 5.5 cartridge
Stopping PHP 5.4 cartridge (Apache+mod_php)
Waiting for stop to finish
Waiting for stop to finish

Αφού ανεβάσει τις αλλαγές,
εμφανίζει κάποια μηνύματα.
Πατάμε OK

Configure... OK



hello

Αν πάμε στην σελίδα της εφαρμογής, εμφανίζει τα νέα περιεχόμενα

phpMyAdmin

Server: 127.11.78.2:3306 » Database: mytestphp

Structure SQL Search Query Export Import Operations Privileges More

(Recent tables) ...

information_schema
mysql
mytestphp
performance_schema

No tables found in database

Create table

Name: metrics Number of columns: 4

Go

Για να προσθέσουμε έναν πίνακα στην βάση, επιλέγουμε το όνομα της εφαρμογής από αριστερά, προσθέτουμε ένα όνομα πίνακα, πόσες στήλες έχει ο πίνακας και πατάμε Go.



(Recent tables) ...

information_schema
 mysql
 mytestphp
 performance_schema

Server: 127.11.78.2:3306 » Database: mytestphp » Table: metrics

Browse Structure SQL Search Insert Export Import Operations Triggers

Table name: metrics Add 1 column(s) Go

Structure

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A.I	Comments
temp	FLOAT		None			☐	---	☐	
hum	FLOAT		None			☐	---	☐	
id	INT		None			☐	---	☒	
date	DATETIME		None			☐	---	☐	

Table comments:

Storage Engine:

InnoDB

Collation:

PARTITION definition:

Save

Στην συνέχεια επιλέγουμε τα ονόματα και τον τύπο της κάθε στήλης και πατάμε Save

phpMyAdmin

(Recent tables) ...

information_schema

mysql

mytestphp

New

metrics

performance_schema

Server: 127.11.78.2:3306 » Database: mytestphp » Table: metrics "metrics"

Browse

Structure

SQL

Search

Insert

Export

Import

Operations

Triggers

Table	Action	Rows	Type	Collation	Size	Overhead
☐ metrics	Browse Structure Search Insert Empty Drop	-0	InnoDB	utf8_general_ci	16 KiB	-
1 table	Sum	0	InnoDB	utf8_general_ci	16 KiB	0 B

☐ Check All

With selected:

Print view

Data Dictionary

Create table

Name:

Number of columns:

Go

Ο πίνακας δημιουργήθηκε

phpMyAdmin

Server: 127.11.78.2:3306 » Database: mytestphp » Table: metrics

Browse Structure SQL Search Insert Export Import Operations Triggers

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 sec)

```
SELECT *  
FROM `metrics`  
LIMIT 0 , 30
```

Profiling [Inline] [Edit] [Explain SQL] [Create PHP Code] [Refresh]

Αν πατήσουμε Browse, βλέπουμε ότι είναι κενός

Pro Pac

mytestphp [mytestphp]

- common.php
- index.php
- insert.php
- json.php

```
<?php
require_once "common.php";

$con=mysqli_connect($host, $user, $pass, $dtbs, $port);

$query = "SELECT * FROM metrics";
$result = mysqli_query($con,$query);

$rows = array();
while($row = mysqli_fetch_assoc($result)) {
    $rows[] = $row;
}
print_r($rows);
?>
```

Push to mytestphp - origin

Pushing to remote repositories

☐ Always run in background

Cancel Details >> Run in Background

Problems Properties Servers Console OpenShift Explorer

mytestphp at OpenShift

Starting MySQL 5.5 cartridge
Starting PHPMyAdmin cartridge
Starting PHP 5.4 cartridge (Apache+mod_php)
Application directory "/" selected as DocumentRoot

mytestphp Push to mytestphp - origin: (100%)

Φτιάχνουμε κάποια
αρχεία και τα κάνουμε
push.

common.php

```
common.php index.php insert.php json.php
<?php
$host = getenv('OPENSIFT_MYSQL_DB_HOST');
$port = getenv('OPENSIFT_MYSQL_DB_PORT');
$dbts = "mytestphp";
$user = "adminmHL8TXX";
$pass = "xU9WeUW4Lfil";

?>
```

common.php index.php insert.php json.php

nytestphp/index.php ml>

index.php

```
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>My test PHP</title>

</head>
<body>

<?php
require_once "common.php";

$con=mysqli_connect($host, $user, $pass, $dtbs, $port);

$query = "SELECT * FROM metrics";
$result = mysqli_query($con,$query);

while($row = mysqli_fetch_array($result)) {
  echo $row['date'] . ": temp=" . $row['temp'] . ", hum=" . $row['hum'];
  echo "<br>";
}

mysqli_close($con);
?>

</body>
</html>
```

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Insert</title>

</head>
<body>

<?php
require_once "common.php";

$con=mysqli_connect($host, $user, $pass, $dtbs, $port);

$temp = mysqli_real_escape_string($con, $_GET['t']);
$hum = mysqli_real_escape_string($con, $_GET['h']);
date_default_timezone_set('Europe/Athens');
$mysqltime = date ("Y-m-d H:i:s", time());

$query = "INSERT INTO metrics (temp, hum, date) VALUES ($temp, $hum, '$mysqltime')";
mysqli_query($con, $query);

mysqli_close($con);
?>

</body>
</html>
```

insert.php

```
<?php
require_once "common.php";

$con=mysqli_connect($host, $user, $pass, $dtbs, $port);

$query = "SELECT * FROM metrics";
$result = mysqli_query($con,$query);

$rows = array();
while($row = mysqli_fetch_array($result, MYSQLI_ASSOC)) {
    $rows[] = $row;
}

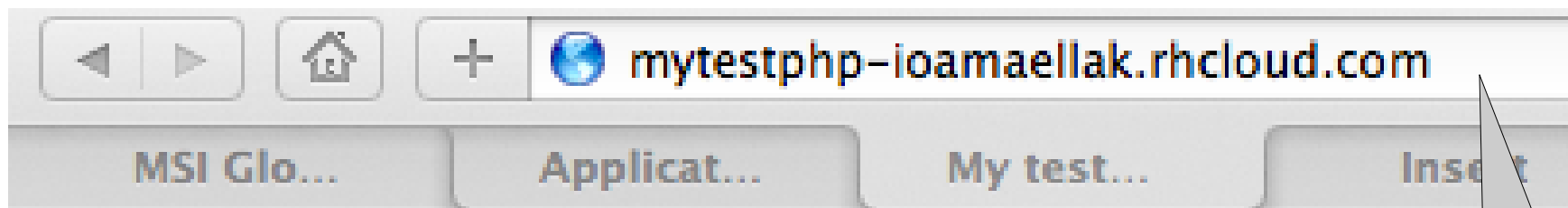
mysqli_close($con);

print json_encode($rows);
?>
```

json.php



Στην σελίδα insert.php μπορούμε να
βάλουμε κάποιες παραμέτρους.
Η σελίδα τις εισάγει στην βάση.



2014-07-15 17:29:37: temp=10, hum=20
2014-07-15 17:37:38: temp=10, hum=20
2014-07-15 17:37:48: temp=10, hum=30
2014-07-15 17:42:54: temp=10, hum=20
2014-07-15 17:43:29: temp=10, hum=30

Η index.php εμφανίζει
τα περιεχόμενα
(είναι η default
σελίδα).

Η json.php εμφανίζει
τα περιεχόμενα που θέλουμε
σε μορφή json



```
[{"temp": "10", "hum": "20", "id": "1", "date": "2014-07-15 17:29:37"}, {"temp": "10", "hum": "20", "id": "2", "date": "2014-07-15 17:37:38"}, {"temp": "10", "hum": "30", "id": "3", "date": "2014-07-15 17:37:48"}, {"temp": "10", "hum": "20", "id": "4", "date": "2014-07-15 17:42:54"}, {"temp": "10", "hum": "30", "id": "5", "date": "2014-07-15 17:43:29"}]
```

Showing rows 0 - 4 (5 total, Query took 0.0011 sec)

```
SELECT *
FROM `metrics`
LIMIT 0 , 30
```

☐ Profiling [Inline] [Edit] [Explain SQL] [Create PHP C

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Sort by key: None

+ Options

				temp	hum	id	date
☐	Edit	Copy					2014-07-15 17:29:37
☐	Edit	Copy	Delete	10	20	2	2014-07-15 17:37:38
☐	Edit	Copy	Delete	10	30	3	2014-07-15 17:37:48
☐	Edit	Copy	Delete	10	20	4	2014-07-15 17:42:54
☐	Edit	Copy	Delete	10	30	5	2014-07-15 17:43:29

☐ Check All With selected:

Show : Start row: 0 Number of rows: 30 Headers every 100 rows

Query results operations

Στο Browse εμφανίζονται τα περιεχόμενα του πίνακα

API

- Application Programming Interface
- Διεπαφή προγραμματισμού εφαρμογών
- Παρέχει τη διασύνδεση ενός ΛΣ, βιβλιοθήκης ή εφαρμογής
- Αιτήματα από άλλα προγράμματα
- Ανταλλαγή δεδομένων

Διεύγεια - Diavgeia

- <https://diavgeia.gov.gr/api/help>
- REST – Representational State Transfer
- Αποστολή κατάλληλα διαμορφωμένων HTTP αιτημάτων
- API_BASE_URL είναι το εξής:
<https://test3.diavgeia.gov.gr/luminapi/opendata>

Διαύγεια – Diavgeia

Πράξεις

- Ένα σύνολο μεταδεδομένων τα οποία περιγράφουν το σκοπό και το περιεχόμενο του πράξης, καθώς και τον εκδότη της πράξης (φορέας, μονάδα, τελικός υπογράφων).
- Το έγγραφο της πράξης σε μορφή PDF. Το αρχείο οποίο φέρει ένδειξη με τον Αριθμό Διαδικτυακής Ανάρτησης που έχει αποδοθεί στην πράξη, και είναι ψηφιακά υπογεγραμμένο από το σύστημα Δι@ύγεια.
- Προαιρετικά, ένα σύνολο συνοδευτικών εγγράφων (συνημμένα)
- Έναν αριθμό έκδοσης (Version ID)
- Τέλος, σε όλες οι αναρτημένες πράξεις αποδίδεται ένας Αριθμός Διαδικτυακής Ανάρτησης (ΑΔΑ)

Διαύγεια – Διανγεία

Τιμές αναφοράς / Λεξικά / Οργανόγραμμα

- Τύποι πράξεων
- Φορείς
- Μονάδες
- Τελικοί υπογράφοντες
- Οργανικές θέσεις
- Όροι αναζήτησης
- Λεξικά

Διαύγεια – Diavgeia Εκτέλεση

- Πιστοποίηση Χρήστη
- Username Password
Apiuser_1 ApiUser@1
- ```
curl -k -i -u apiuser_1:ApiUser@1
https://test3.diavgeia.gov.gr/luminapi/open
data//organizations/30
```

# Διαύγεια – Διανγεία Εκτέλεση

HTTP/1.1 200 OK

Server: **nginx**

Date: Wed, 16 Jul 2014 13:06:11 GMT

Content-Type: **application/json**; charset=UTF-8

Transfer-Encoding: chunked

Connection: keep-alive

```
{"uid":"30","label":"ΥΠΟΥΡΓΕΙΟ ΕΣΩΤΕΡΙΚΩΝ","abbreviation":null,"latinName":"min-interior","status":"active","category":"MINISTRY","vatNumber":"090056250","fekNumber":"147","fekIssue":"fektype_A","fekYear":"2011","odeManagerEmail":"info@ypes.gr","website":"http://www.ypes.gr","supervisorId":null,"supervisorLabel":null,"organizationDomains":[]}
```

# Διαύγεια – Diavgeia Εκτέλεση

- curl -k -i -u apiuser\_1:ApiUser@1  
https://test3.diavgeia.gov.gr/luminapi/opendata/organizations
- curl -k -i -u apiuser\_1:ApiUser@1  
https://test3.diavgeia.gov.gr/luminapi/opendata/search/terms
- curl -k -i -u apiuser\_1:ApiUser@1  
https://test3.diavgeia.gov.gr/luminapi/opendata//organizations/30
- curl -k -i -u apiuser\_1:ApiUser@1 -H "Accept: application/json"  
https://test3.diavgeia.gov.gr/luminapi/opendata//organizations/30  
/units

# Διαύγεια – Διανγεία Επεκτάσεις

- Τα αιτήματα HTTP είναι δύσκολα
- Οι εφαρμογές θα πρέπει να επεξεργαστούν την έξοδο (JSON/xml)
- <https://github.com/diavgeia>
  - Java
  - PHP
  - Python

# GitHub

- <https://developer.github.com/v3>
- HTTP αιτήματα στο <https://api.github.com>

```
$ curl -i https://api.github.com/users/octocat/orgs
```

```
HTTP/1.1 200 OK
Server: nginx
Date: Fri, 12 Oct 2012 23:33:14 GMT
Content-Type: application/json; charset=utf-8
Connection: keep-alive
Status: 200 OK
ETag: "a00049ba79152d03380c34652f2cb612"
X-GitHub-Media-Type: github.v3
X-RateLimit-Limit: 5000
X-RateLimit-Remaining: 4987
X-RateLimit-Reset: 1350085394
Content-Length: 5
Cache-Control: max-age=0, private, must-revalidate
X-Content-Type-Options: nosniff
```

```
[]
```

# GitHub

- Πιστοποίηση χρήστη
  - \$ curl -u "username" <https://api.github.com>
- OAuth2 Token
  - \$ curl -H "Authorization: token OAUTH-TOKEN" <https://api.github.com>
- OAuth2 Token (παράμετρος)
  - curl [https://api.github.com/?access\\_token=OAUTH-TOKEN](https://api.github.com/?access_token=OAUTH-TOKEN)

# GitHub

- Antivity
- Gists
- Git Data
- Issues
- Organizations
- Repositories
- Users
- Search

# GitHub

- `curl -i -X PUT -u tolvog -d '{"path": "test4.txt", "message": "Initial Commit", "committer": {"name": "Apostolos Vogklis", "email": "tvoglis@gmail.com"}, "content": "bXkgbmV3IGZpbGUgY29udGVudHM=", "branch": "master"}' https://api.github.com/repos/tolvog/merlin/contents/test4.txt`

# GitHub - Έξοδος

```
{
 "content": {
 "name": "myFile.txt",
 "path": "myFile.txt",
 "sha": "0d5a690c8fad5e605a6e8766295d9d459d65de42",
 "size": 20,
 "url": "https://api.github.com/repos/tolvog/merlin/contents/myFile.txt?ref=master",
 "html_url": "https://github.com/tolvog/merlin/blob/master/myFile.txt",
 "git_url":
 "https://api.github.com/repos/tolvog/merlin/git/blobs/0d5a690c8fad5e605a6e8766295d9d459d65de42",
 "type": "file",
 "_links": {
 "self": "https://api.github.com/repos/tolvog/merlin/contents/myFile.txt?ref=master",
 "git":
 "https://api.github.com/repos/tolvog/merlin/git/blobs/0d5a690c8fad5e605a6e8766295d9d459d65de42",
 "html": "https://github.com/tolvog/merlin/blob/master/myFile.txt"
 }
 },
 "commit": {
 "sha": "aac26c69bafca1520e71d210e6f5184f2662b34a",
 "url":
```

# GitHub

- Βιβλιοθήκες
  - <https://developer.github.com/libraries/>
- Official
  - Ruby octokit.rb
  - Obj-C octokit.objc
  - .NET octokit.net
- Python
  - <https://github.com/jacquev6/PyGithub>
  - <https://github.com/copitux/python-github3>

# GitHub - Έξοδος

```
"https://api.github.com/repos/tolvog/merlin/git/commits/aac26c69bafca1520e71d210e6f5184f2662b34a",
 "html_url": "https://github.com/tolvog/merlin/commit/aac26c69bafca1520e71d210e6f5184f2662b34a",
 "author": {
 "name": "Apostolos Vogklis",
 "email": "tvoglis@gmail.com",
 "date": "2014-07-16T13:39:45Z"
 },
 "committer": {
 "name": "Apostolos Vogklis",
 "email": "tvoglis@gmail.com",
 "date": "2014-07-16T13:39:45Z"
 },
 "tree": {
 "sha": "af43c97c82dcdc98eb1fa293afacc650141f4394",
 "url":
 "https://api.github.com/repos/tolvog/merlin/git/trees/af43c97c82dcdc98eb1fa293afacc650141f4394"
 },
 "message": "Initial Commit",
 "parents": [
 {
 "sha": "4f0adb00a7e5972bd301913649ca4fc525875e8b",
 "url":
 "https://api.github.com/repos/tolvog/merlin/git/commits/4f0adb00a7e5972bd301913649ca4fc525875e8b",
 "html_url":
 "https://github.com/tolvog/merlin/commit/4f0adb00a7e5972bd301913649ca4fc525875e8b"
 }
]
}
```