

FIWARE and FIWARE Lab Service Offer

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www.fiware.org
[@Fiware](https://twitter.com/Fiware) 



<http://tinyurl.com/fiware-lab-offer>

Content

- Introduction to FI-LAB Cloud Hosting.
- Blueprints management.
- Catalogue & Marketplace.
- Reference Information.

FIWARE Lab Cloud Hosting

- Create your account in lab.fiware.eu.
- Enter in the Cloud Portal.
- Create your keypair (private key).
- Deploy your instance.
- Add a public IP.
- Open ports to the VM.

Add new user

The screenshot shows the FIWARE Lab website. At the top is a navigation bar with links: Cloud, Store, Mashup, Account, and Help&info. The main content area features a 'FIWARE Lab' section with a description and a 'Sign up' button. Below this is a grid of four links: 'Need Help?' (Ask a question.), 'Our GEs' (See our Catalogue.), 'FIWARE Lab nodes' (Learn about FIWARE Ops.), and 'eLearning' (Train yourself.). On the right side, there is a sign-up form with fields for 'Email' and 'Password', a 'Remember me' checkbox, and a 'Sign in' button. Below the form are links for 'Sign up', 'Forgot you password?', and 'Didn't receive confirmation instructions?'. Two red callout bubbles provide additional instructions: one points to the email and password fields, and the other points to the 'Sign up' link.

FIWARE Lab

FIWARE Lab is a working instance of FIWARE available for experimentation.

You will be able to setup the basic virtual infrastructure needed to run applications that make use of the APIs provided by FIWARE Generic Enablers deployed as a Service either globally or by you (as private instance).

[Sign up](#)

Need Help? >	Our GEs >
Ask a question.	See our Catalogue.
FIWARE Lab nodes >	eLearning >
Learn about FIWARE Ops.	Train yourself.

Enter your email and password to access to the FI-LAB.

Email

Password

☐ Remember me

[Sign in](#)

[Sign up](#) | [Forgot you password?](#) | [Didn't receive confirmation instructions?](#)

If you do not have it or forgot it, sign up or request for a new one.

Cloud Portal

Instances

Project

Launch New Instance

Actions

Project Name

fernando-lopez

Blueprint

Blueprint Instances

 Blueprint Templates

Region

Spain 

Compute

Instances

 Images

Flavors

 Security

 Snapshots

Storage

 Containers

 Volumes

Displaying 0 items

[illegible]

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Security

The screenshot shows the FIWARE Lab interface. The top navigation bar includes 'Cloud', 'Store', 'Mashup', 'Account', and 'Help&info'. The user 'Fernando Lopez' is logged in. The left sidebar shows the 'Project' section with 'Project Name' (fernando-lopez) and 'Blueprint' (Blueprint Instances, Blueprint Templates). The 'Region' is set to 'Spain'. The 'Compute' section includes 'Instances', 'Images', and 'Flavors'. The 'Security' section is highlighted, showing 'Snapshots'. The 'Storage' section includes 'Containers' and 'Volumes'.

The main content area is titled 'Security' and has tabs for 'Floating IPs', 'Security Groups', and 'Keypairs'. The 'Keypairs' tab is active. It shows a table with columns 'Name' and 'Fingerprint'. Above the table are buttons for 'Create Keypair', 'Import Keypair', and 'Actions'.


A red speech bubble with the text 'You must create a keypair to access to the servers.' is overlaid on the 'Keypairs' tab.

The 'Create Keypair' modal is open, showing a form with the following fields:

- Keypair Name ***: A text input field with the placeholder 'Keypair Name'.
- Description**: A text area with the text 'Keypairs are ssh credentials which are injected into images when they are launched. Creating a new key pair registers the public key and downloads the private key (a .pem file). Protect and use the key as you would any normal ssh private key.'

At the bottom of the modal, there is a note '* Mandatory fields.' and two buttons: 'Cancel' and 'Create Keypair'.

Security groups

 Edit Security Group Rules ✕

Security Group Rules

IP Protocol ▾	From Port ▾	To Port ▾	Source ▾	Action ▾
TCP	22	22	0.0.0.0/0 (CIDR)	Delete Rule

Displaying 1 item

Add Rule

IP Protocol	From Port *	To Port *	Source Group	CIDR
TCP ▾	Required field. ▴ ▾	Required field. ▴ ▾	CIDR ▾	0.0.0.0/0

* Mandatory fields.


Cancel Add Rule

Allocate IP to project

The screenshot shows the FIWARE Lab interface. The top navigation bar includes 'Cloud', 'Store', 'Mashup', 'Account', and 'Help&info'. The user 'Fernando Lopez' is logged in. The left sidebar shows a 'Project' dropdown set to 'fernando-lopez' and a 'Region' dropdown set to 'Spain'. Under 'Compute', 'Security' is selected. The main content area is titled 'Security' and has tabs for 'Floating IPs', 'Security Groups', and 'Keypairs'. The 'Floating IPs' tab is active, showing a table with two items. A red callout bubble with the text 'Allocate new IP' points to a blue button labeled 'Allocate IP to Project' located above the table. The table has columns for 'IP Address', 'Instance', and 'Floating IP Pool'. The first row shows IP 130.206.83.154 associated with instance '-' and pool 'net8300'. The second row shows IP 130.206.83.21 associated with instance '-' and pool 'net8300'. At the bottom right, it says 'Displaying 2 items'.

<input type="checkbox"/>	IP Address ▼	Instance ▼	Floating IP Pool ▼
<input type="checkbox"/>	130.206.83.154	-	net8300
<input type="checkbox"/>	130.206.83.21	-	net8300

Launch Instances



CloudStoreMashupAccountHelp&info

Fernando Lopez

Project

Project Name

fernando-lopez

Blueprint

Blueprint Instances

Blueprint Templates

Region

Spain

Compute

Instances

Images

Flavors

Security

Snapshots

Storage

Containers

Volumes


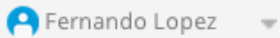
Images

Name	Status	Visibility	Container Format	Disks	Actions
BolNC	active	public	OVF	QCOW2	Launch
CentOS-6.3-sdc	active	public	OVF	QCOW2	Launch
CentOS-6.3-x86_64	active	public	OVF	QCOW2	Launch
CentOS-6.5-x64	active	public	OVF	QCOW2	Launch
CentOS6.3.init	active	public	OVF	QCOW2	Launch
CentOS65init	active	public	OVF	QCOW2	Launch
LPCI-internal	active	public	OVF	QCOW2	Launch
MiWi-POI server	active	public	OVF	QCOW2	Launch
MiWi-POI server	active	public	OVF	QCOW2	Launch
Snapshot_orion_citysense	active	public	OVF	QCOW2	Launch
Ubuntu12.04-server-x86_64	active	public	OVF	QCOW2	Launch

Displaying 38 items

Launch new instance

Allocate Floating IP

 Cloud Store Mashup Account Help&info 

Security

Project

Project Name

fernando-lopez

Blueprint

Blueprint Instances

Blueprint Templates

Region

Spain

Compute

Instances

Images

Flavors

Security

Snapshots

Storage

Containers

Volumes

Floating IPs

Security Groups

Keypairs

Allocate IP to Project

Actions

<input type="checkbox"/>	IP Address	Instance	Floating IP Pool
<input checked="" type="checkbox"/>	130.206.83.154	-	net8300
<input type="checkbox"/>	130.206.83.21	-	net8300

Associate IP

Dissociate Floating IP

Release Floating IPs

Displaying 2 items

Create a volume & Attach it to a server

Create Volume

Volume Name *

Description

Volumes are block devices that can be attached to instances.

Description

A volume

Size (GB) *

1

* Mandatory fields.

Cancel

Create Volume

Create a volume & Attach it to a server

Create Volume

Volume Name *

volume1

Description

A volume

Size (GB) *

1

* Mandatory fields.

Description

Volumes are block devices that can be attached to

Manage Volume Attachments

Attachments

Detach Volumes

	Instance	Device	Actions
Displaying 0 items			

Attach To Instance

Attach to Instance *

fla

Device Name *

/dev/vdc

* Mandatory fields.

Cancel

Attach Volume

Create container

Create Container

Container Name *

Description

A container is a storage compartment for your data and provides a way for you to organize your data. You can think of a container as a folder in Windows ® or a directory in UNIX ®. The primary difference between a container and these other file system concepts is that containers cannot be nested. You can, however, create an unlimited number of containers within your account. Data must be stored in a container so you must have at least one container defined in your account prior to uploading data.

* Mandatory fields.

Cancel

Create Container

Upload object

ers

Upload Object To Container: CPBR7Container

Object Name *

File *

Seleccionar archivo Ningún archivo seleccionado

Description

An object is the basic storage entity and any optional metadata that represents the files you store in the OpenStack Object Storage system. When you upload data to OpenStack Object Storage, the data is stored as-is (no compression or encryption) and consists of a location (container), the object's name, and any metadata consisting of key/value pairs.

* Mandatory fields.

Cancel

Upload Object

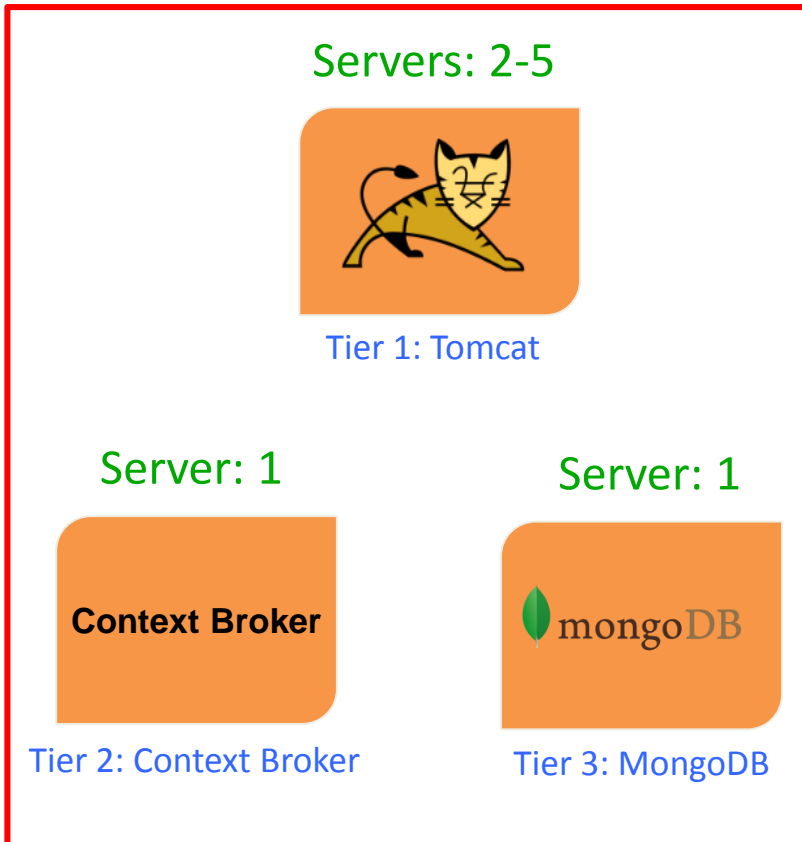
Deploying components for your application

- Deploying applications and not only Servers.
 - Ad hoc installation (not template usage).
- Managing applications in Servers (install, uninstall, configure, snapshot...).
- Deploying different environments for that applications.

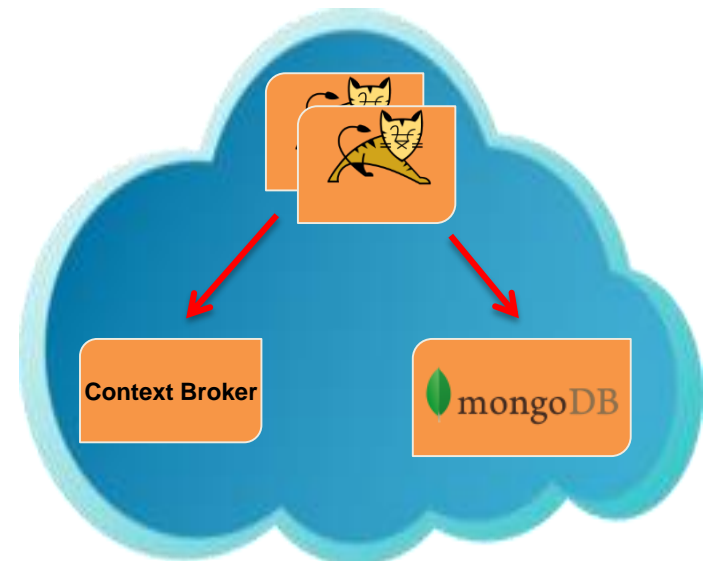


Deploy example

Blueprint template: fiware1



- **Blueprint Template**: platform specification to be deployed.
- **Tier**: Each kind of software and server to be deployed.
- Each Tier can be deployed in one or **several servers** (e.g. tomcat, 2-5 servers).
- **Blueprint Instance**: Deployed in the testbed.



Blueprints management

The screenshot shows the FIWARE Lab interface for managing Blueprint Templates. The top navigation bar includes links for Cloud, Store, Mashup, Account, and Help&info, along with the user profile Fernando Lopez. The left sidebar lists various project components: Project Name (fernando-lopez), Blueprint (Blueprint Instances, Blueprint Templates), Region (Spain), Compute (Instances, Images, Flavors, Security, Snapshots), and Storage (Containers, Volumes). The main content area is titled 'Blueprint Templates' and features two buttons: 'Open Catalog' and 'Create New Template'. Below these buttons is a table with the following structure:

<input type="checkbox"/>	Name ▾	Description ▾	Tiers ▾
<input type="checkbox"/>	pl	pl	

A red callout bubble points to the 'Open Catalog' and 'Create New Template' buttons with the text: "You can open the Catalog of Blueprint Template or create one from the scratch." The bottom right corner of the table area indicates 'Displaying 1 item'.

Blueprints management

Create Tier

1. Details

2. Install Software

4

0

Name *:

Region:

Spain

Flavor *:

m1.small (1VCPU / 10GB Disk / 2048ME)

Image *:

ubuntu-13.10-sdc

Icon:

View

Keypair:

mexico

Public IP: ☐

* Mandatory fields.

Cancel

Next

You should specify the maximum, minimum and current number of servers

You must select a Keypair to access to those servers.

Blueprints management

Create Tier

1. Details

2. Install Software

Software in Tier

Edit special attributes like default port.

Software in Catalogue

git 1.7

kurento 4.0.0

kurento 4.2.0

kurento 4.2.2

mediawiki 1.17.0

mongodbconfig 2.2.3

mongodbshard 2.2.3

* Mandatory fields.

Back

Create tier

Install software pressing the mouse right click.

FIWARE Catalogue (<http://catalogue.fiware.org>)

Home Enablers Tools Forum

Login / Register

FIWARE Catalogue

Home Enablers Tools Forum

Login / Register

FIWARE Catalogue

Hosting enablers
for creating
FUTURE IN
APPLICATIONS

Home Enablers Tools Forum

Generic Enablers

Home / Generic Enablers

Browse by Chapter

- Any -

3D-UI-XML3D



Extend the current declarative, rich media content

ADVANCED MIDDLEWARE AND WEB USER INTERFACES

3DUI - WebTundra



realTend's Web client for realtime collaborative 3d applications

ADVANCED MIDDLEWARE AND WEB USER INTERFACES

Access Control - THA Implementation



Administration & Enforcement of RESTful API Authorization Policy

SECURITY

BigData Analysis - Cosmos

Home / Generic Enablers / BigData Analysis - Cosmos

Overview

Creating Instances

Documentation

Downloads

Instances

Terms and conditions



Chapter:
Data/Context Management

Version:

Updated:
2014-07-08

Rating:

★★★★★

Average: 5 (2 votes)

Contact Person:

Place your question at
stackoverflow.com (tags: fiware,
fiwab, fiware-cosmos)
francisco.romerobueno

What you get

Cosmos is an implementation of the Big Data GE, allowing the deployment of private computing clusters based on Hadoop ecosystem. Current version of Cosmos allows users to:

- I/O operations regarding Infinity, a persistent storage cluster based on HDFS.
- Creation, usage and deletion of private computing clusters based on MapReduce and SQL-like querying systems such as Hive or Pig.
- Manage the platform, in many aspects such as services, users, clusters, etc, from the Cosmos API or the Cosmos CLI

There is also a component called Cygnus in charge of receiving context data from Orion (Context Broker GE implementation) and storing it in HDFS.

Why

Big Data
is not a
mechanical
looking

Open

Home Enablers Tools Forum

Login / Register

Publish/Subscribe Context Broker - Orion Context Broker

Home / Generic Enablers / Publish/Subscribe Context Broker - Orion Context Broker

Overview

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Chapter:
Data/Context Management

Version:

Updated:
2014-06-13

Rating:

★★★★★

Average: 5 (2 votes)

Contact Person:

What you get

The Orion Context Broker is an implementation of the Publish/Subscribe Context Broker GE, providing the NGSI interfaces, clients can do several operations:

- Register context producer applications, e.g. a temperature sensor within a room
- Update context information, e.g. send updates of temperature
- Being notified when changes on context information take place (e.g. the temperature has changed) or when a temperature each minute)
- Query context information. The Orion Context Broker stores context information updated from applications and provides it to the clients.

Why you get

If you are developing a Data/Context scenario, a broker like the Orion Context Broker is a must. You would need a broker that mediates between consumer producers (e.g. sensors) and the context consumer applications (e.g. an smartphone) context information provided by the sensors. The Orion Context Broker fulfils this functionality in your architecture.

Open specification reference

This component has been designed according to the [Publish/Subscribe Context Broker GE Open Specification](#). Please refer to the specification for more details.

Where to obtain more information



Questions

Tags

Users

Badges

Unanswered

Ask Question

Tags

popular

name

new

A tag is a keyword or label that categorizes your question with other, similar questions. Using the right tags makes it easier for others to find and answer your question.

Type to find tags: fiware

fiware × 32

an open cloud-based infrastructure for creation and delivery of Internet applications and services.

6 asked this month

tag synonyms

fiware-orion × 47

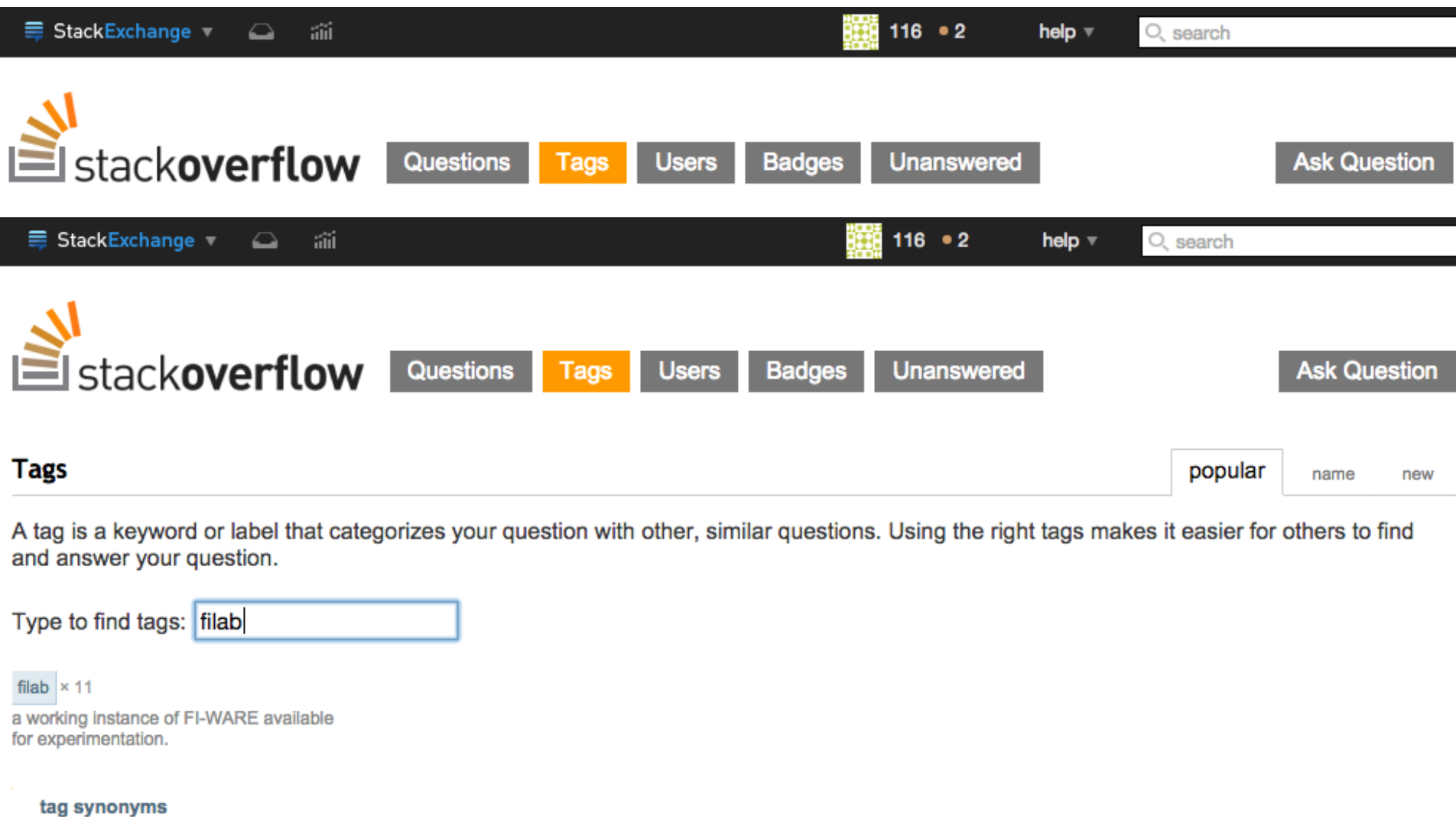
Fiware-orion refers to the Orion Context Broker, a C++ implementation of the NGSi9/10 REST API binding developed as

6 asked this month

fiware-wirecloud × 10

Widgets Container and Mashup edition tools for composing end-user centric mashup applications developed as part of

Where to obtain more information stackoverflow



StackExchange 116 2 help search

stackoverflow Questions Tags Users Badges Unanswered Ask Question

StackExchange 116 2 help search

stackoverflow Questions Tags Users Badges Unanswered Ask Question

Tags

popular name new

A tag is a keyword or label that categorizes your question with other, similar questions. Using the right tags makes it easier for others to find and answer your question.

Type to find tags:

filab × 11

a working instance of FI-WARE available for experimentation.

tag synonyms

Where to obtain more information



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Where to obtain more information



FIWARE

✓ Suscrito

Página principal

Videos

Listas de reproducción

Canales

Comentarios

Más información



Actividad



FIWARE Accelerator Programme: The Journey to Tomorrow

de FIWARE 29 visualizaciones Hace 1 día



ECFI Munich 2014

de FIWARE
1.857 visualizaciones Hace 4 semanas



FI-Guardian, monitor for adverse events

de FIWARE
58 visualizaciones Hace 1 mes



FI-WARE at Campus Party Mexico

de FIWARE

What is FIWARE?

A collection of videos to start understanding what FIWARE is about.

Canales relacionados en YouTube



Google Developers

Suscribirse



DesarrolloWeb.com

Suscribirse



campusparty

Suscribirse



IBMSocialMedia

Suscribirse



MIT Technology R...

Suscribirse



OpenStack Found...

Suscrito

Where to obtain more information



YouTube interface showing the XIFI channel page. The page includes a search bar, a navigation menu with options like 'Subir', 'Suscrito', and 'Todas las actividades', and a list of videos. The main video is titled 'Process for Joining the Federation' and is described as 'This presentation focuses on the Process for Joining the FIWARE Lab Federation from the perspective of an Infrastruct...'. The video has 26:29 duration and 2 visualizations. The channel name 'XIFI' is prominently displayed at the top of the page content.

FIWARE

Página principal

Actividad

FIWARE Accede Tomorrow de FIWARE 29 v

What is FIW A collection of v

XIFI

Suscrito

Página principal Vídeos Listas de reproducción Canales Comentarios Más información

Todas las actividades

XIFI ha subido • ha publicado un boletín Hace 15 horas

Add a message to your video

Process for Joining the Federation de XIFI • Hace 15 horas • Sin visualizaciones

This presentation focuses on the Process for Joining the FIWARE Lab Federation from the perspective of an Infrastruct...

26:29

XIFI ha subido • ha publicado un boletín Hace 2 días

Add a message to your video

Marketplace and Resource Catalogue de XIFI • Hace 2 días • 2 visualizaciones

Canales populares en YouTube

- Apple 5x1 Suscribirse
- POKOXEMO Suscribirse
- FalconMasters Suscribirse
- alfalta90 Suscribirse
- DesarrolloWeb.com Suscribirse
- MacHelpMex Suscribirse

Marketplace & Resource Catalogue

- The Marketplace is the enter point to discover, recommend and use the services.
- The users can manage their own services (services as SaaS and PaaS).
- There are three main services to be discovered in the catalogue:
 - Generic Enablers (FIWARE Catalogue).
 - Specific Enablers (XIFI repository).
- Other services (such as the presence of Sensor Network, Mobile Network and, in general, other features different from the bare data center).
- Integrated with the external repository as the FIWARE catalogue.
- integrated with the DCA and the Federation Identity Management.

Thanks!



OPEN APIs FOR OPEN MINDS

Join us!

www.lab.fiware.org

www.fiware.org

@Fiware 

