



FORGE Service Lab Technical Contact Training

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FORGE Service Lab



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DIGILE

Terminology

Term	Definition
Contract	A legally binding document that enables a project formation and defines the type of the project (SDA, FPA, FPACRA)
Project	As an outcome of a signed contract a project will be formed. Various tools and resources will be made available to the project depending on the type (SDA, FPA, FPACRA)
OpenStack project	OpenStack project (aka. Tenant) is an instance of the CRA allocated for certain project types
SDA	One of the contract types is the Service Development Agreement
FPA	One of the contract types is FORGE Partner Agreement
FPA (CRA)	FORGE Partner Computing Resource Allocation is an optional addendum to the FPA contract
CRA	Computing Resource Allocation is a predefined set of computing resources. CRA realizes as FORGE OpenStack project (aka. Tenant) that has certain quota from FORGE IaaS and that is available for SDA projects
TC	FORGE Service Lab terms and conditions
IaaS	Infrastructure as a Service e.g. FORGE OpenStack, AWS
PaaS	Platform as a Service e.g. Heroku
SaaS	Software as a Service e.g. Google Apps
Technical contact	A technical role in the project that will administer technical aspects of the project e.g. CRA
Administrative contact	A role that will sign the contract and therefore enable collaboration project formation

Technical contact role

- Technical contact role
 - Is legally binding role that is defined in the contract
 - Contains operational tasks which require technical Linux skills
 - Will be trained so that he'll able to help other project members
- Manage project's user accounts and computing resources
 - Adds and remove additional user accounts and manages computing environment quotas
 - Ensure that each user uses FORGE services in strict adherence with TC
 - Act as a 2nd tier technical support for the project
 - May request specific support from FORGE in e.g. implementing a generic purpose digital service recipe
 - Help project members in using FORGE computing environment and other FORGE services
- Help and train other project members
 - Promote and help project members in using collaboration channels, tools, documentation and help channels
 - Help project members in using cloud environment



FORGE HW

FORGE CRA

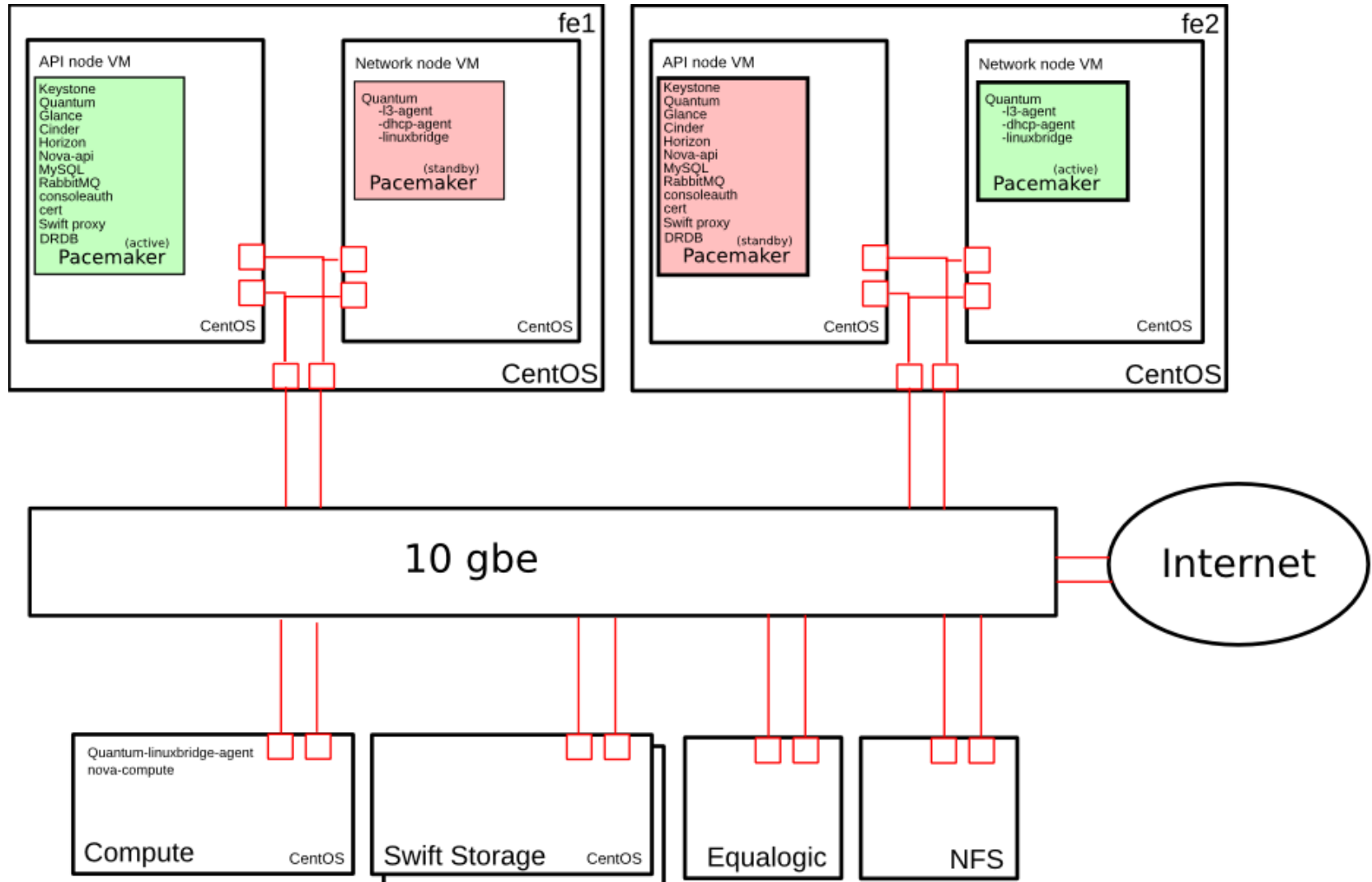
- Computing Resource Allocation consists of CRA units
- Resources are available through OpenStack IaaS
- 1 CRA
 - 16 vcores, 32G RAM
 - 10G / vcore instance storage
 - 1TB volume storage from central storage
 - 1TB object storage
 - 5 external IPv4 IPs and shared wide network bandwidth
 - 16 instances
- Bigdata CRA
 - Suitable for a e.g. Hadoop cluster
 - 46 cores, 10G / vcore instance storage, 400G RAM, 94TB ephemeral disk, 1TB volume storage, 1TB object storage
 - 16 instances



FORGE CRA storage options

- Instance storage
 - Like local root disk that has some space
 - Deleted when virtual machine is deleted
- Block storage from central storage
 - Like a persistent unformatted disk
 - Storage comes from central storage with RAID disks
 - Can be detached and attached to VMs (one at the time)
 - Won't be deleted when virtual machine is deleted
- Object storage
 - Like Amazon's S3
 - Access via URL get / put / delete
 - Objects have metadata
 - Triple replication

FORGE IaaS architecture



Compute HW

- 16 x Dell C6220 (3 dedicated for operations)
 - 2 x CPUs/node
 - 16 HT cores / CPU Intel E5-2650, 20 MB cache, 2,00 GHZ
 - CPUs are 2 x over-committed in cloud middleware (tot. 1024 HT vcores)
 - 128 GB RAM / node (tot. 2048 GB)
 - 2 x 10 Gb Ethernet for failover + management network
 - 6 x 900 GB SAS disks ~ 2,7 TB usable (RAID)
- 12 x HP SL4540 (big data)
 - 2 x CPUs/node
 - 20 HT cores / CPU Intel E5-2670v2
 - CPUs are not over-committed in cloud middleware (tot. 480HT vcores)
 - 196 GB RAM / node (tot. 2352 GB)
 - 2 x 10 Gb Ethernet for failover + management network
 - 2 x 100 GB SSD for OS and 15 x 4 TB SATA (raw!) / node
 - Live migration of the VMs might not be possible
 - RAID5 (6+1) and LVM configuration aimed to balance robustness and performance



Storage HW

- Object storage Dell R720XD
 - 1 x Intel E5-2630L (6 cores)
 - 32 GB RAM
 - 36 TB disk (SATA)
 - Multiple copies of object for fail-over (no RAID). Tolerates a node failure.
 - Due to redundancy +30 TB usable capacity
- Volume storage EqualLogic PS6510ES
 - 7 x 400GB SSD, 41 x 2TB SATA
 - RAID6 protected
 - 2 x 10 Gb Ethernet controllers for failover
 - 64 TB usable space of which part is for NFS



FORGE virtual machine flavors

- Flavors determine the sizing for the virtual machines
- It's possible for a technical contact to ask for a custom flavor by issuing a support ticket
- The basis for big data CRA and flavors is a Hadoop cluster: 1 + 2 + 10 + 1 . 1 monitor(tiny/small, 2 namenodes(hadoop.small), 10 datanodes(hadoop.medium) and 1 control vm(tiny) for ansible and such.

The default flavors

Name	Memory_MB	Disk	Ephemeral	Swap	VCPUs	RXTX_Factor	Is_Public
m1.tiny	1024	10	0		1	1.0	False
m1.small	2048	10	0		1	1.0	False
m1.medium	4096	20	0		2	1.0	False
m1.large	8192	40	0		4	1.0	False
m1.xlarge	16384	80	0		8	1.0	False

The specific flavors for big data projects

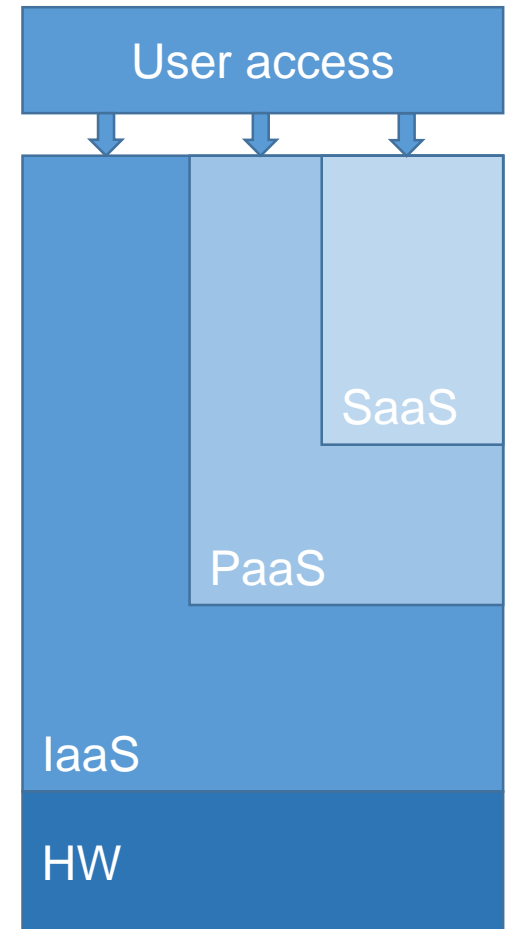
Name	Memory_MB	Disk	Ephemeral	Swap	VCPUs	RXTX_Factor	Is_Public
m1.tiny	1024	10	0		1	1.0	False
m1.small	2048	10	0		1	1.0	False
hadoop.small	18432	100	4300		2	1.0	False
hadoop.medium	36864	100	8600		4	1.0	False
hadoop.large	92160	100	21500		10	1.0	False



FORGE cloud service model

Cloud computing service models

- SaaS (Software as a Service)
 - Provides you with access to application software. You don't have to worry about the installation, setup and running of the application. Service provider will do that for you. You just have to pay and use it through some client.
 - Examples: Google Apps, Microsoft Office 365.
- PaaS (Platform as a Service)
 - Computing platforms which typically includes operating system, programming language execution environment, database, web server etc.
 - Examples: AWS Elastic Beanstalk, Windows Azure, Heroku, Force.com, Google App Engine, Apache Stratos
- IaaS (Infrastructure as a Service)
 - Computing infrastructure, physical or (quite often) virtual machines and other resources like virtual-machine disk image library, block and file-based storage, firewalls, load balancers, IP addresses, virtual local area networks etc.
 - Examples: Amazon EC2, Windows Azure, Rackspace, Google Compute Engine



FORGE cloud service model

- FORGE provides IaaS through OpenStack
 - GUI
 - CLI
 - REST APIs
- FORGE provides some SaaS for
 - Project management
 - Source code version control
 - Collaboration
 - Instant messaging
- Additionally FORGE provides
 - Documentation
 - Reusable example Ansible recipes which can be used to build digital services
 - Plaza service catalogue for digital services (beta)
 - Service design support (alpha)



FORGE IaaS

- FORGE uses OpenStack to provide IaaS
- OpenStack is a free and open-source software
 - OpenStack.org release it under the terms of the Apache License 2.0
- OpenStack consists of a series of interrelated projects that control resource pools throughout a data center
 - Processing
 - Storage
 - Networking resources
 - KVM hypervisors
- Users manage resources using
 - A web-based dashboard
 - Command-line tools
 - RESTful API

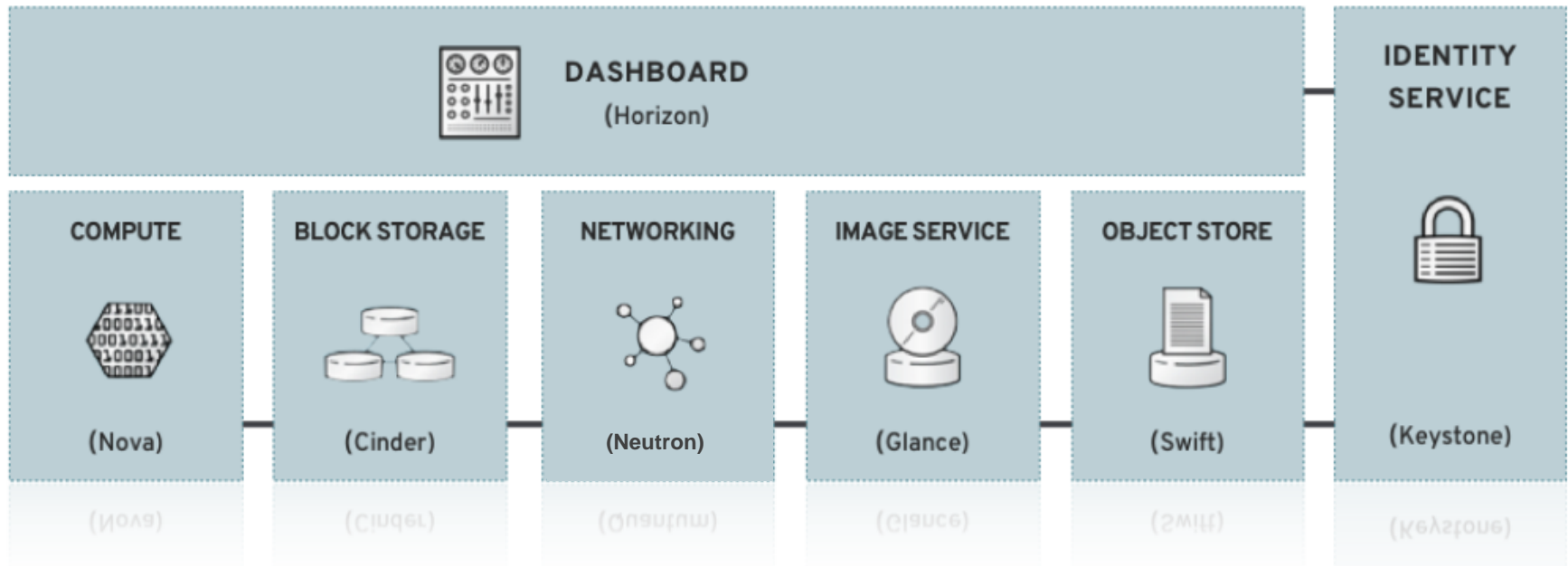


<https://cloud.forgeservicelab.fi>

OpenStack components



OpenStack consists of several integrated projects



By courtesy of OpenStack Foundation



laaS usage illustrated

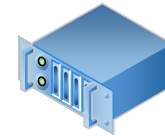
User



1. "Give me two servers called VM1 and VM2 connected to internal network X."



Cloud interface
server



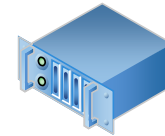
Virtualized resources

User



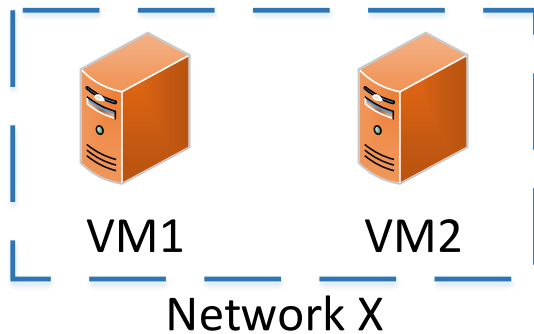
1. "Give me two servers called
VM1 and VM2 connected to
internal network X."

Cloud interface
server



2. "OK. They're running."

Virtualized resources



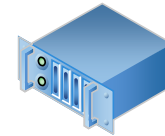
User



1. "Create virtual network Y."

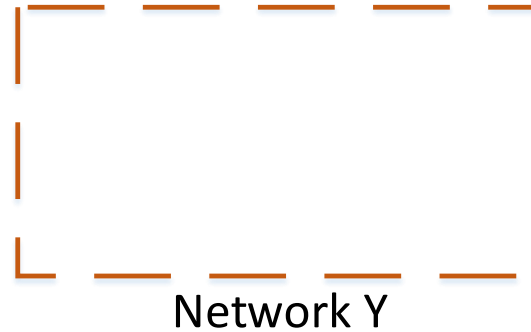
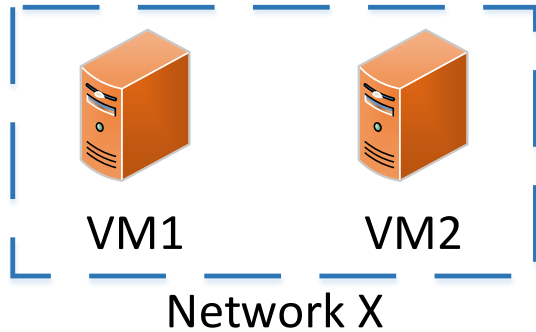


Cloud interface
server



2. "OK. Done."

Virtualized resources



User



1. "Create a server called VM3 and
attach it to networks X and Y."

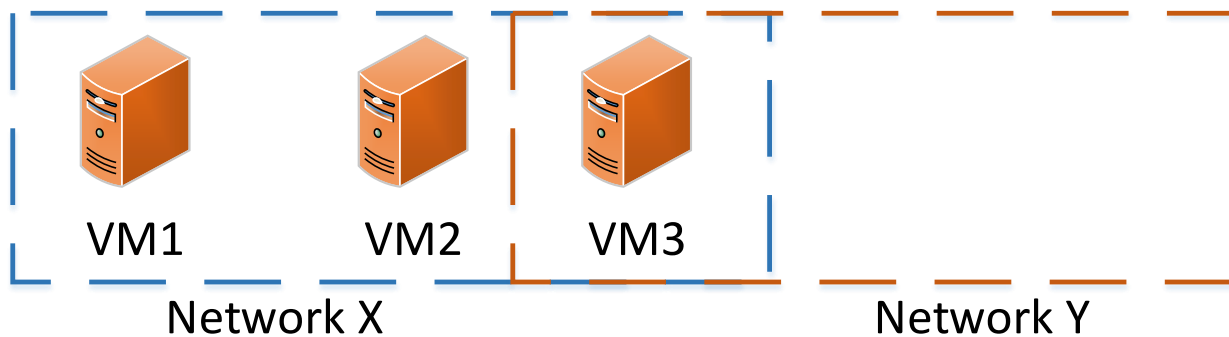


Cloud interface
server



2. "OK. Done."

Virtualized resources



User



1. "Reserve public IP address 1.2.3.4 and attach it to VM3."



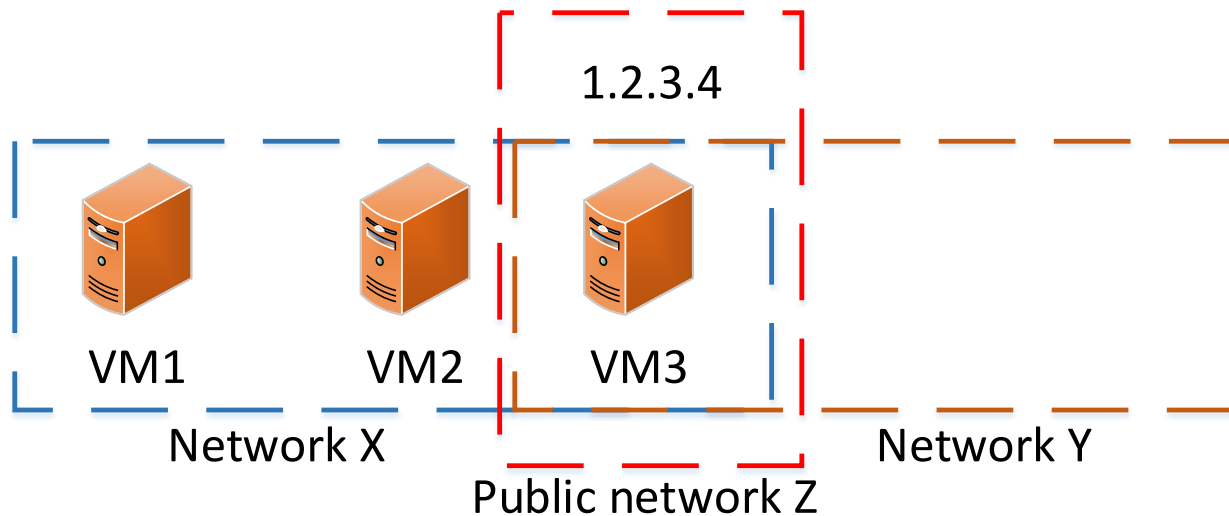
Cloud interface server



2. "OK. Done."



Virtualized resources



User



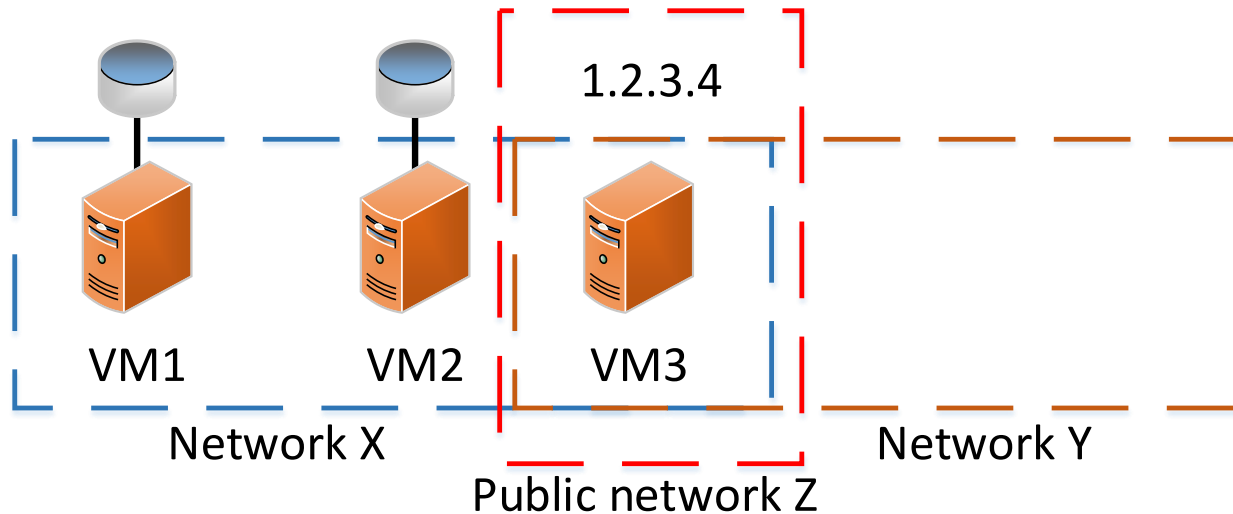
1. "Create two disks and attach them to VM1 and VM2."

Cloud interface server



2. "OK. Done."

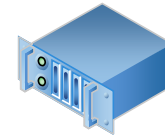
Virtualized resources



User

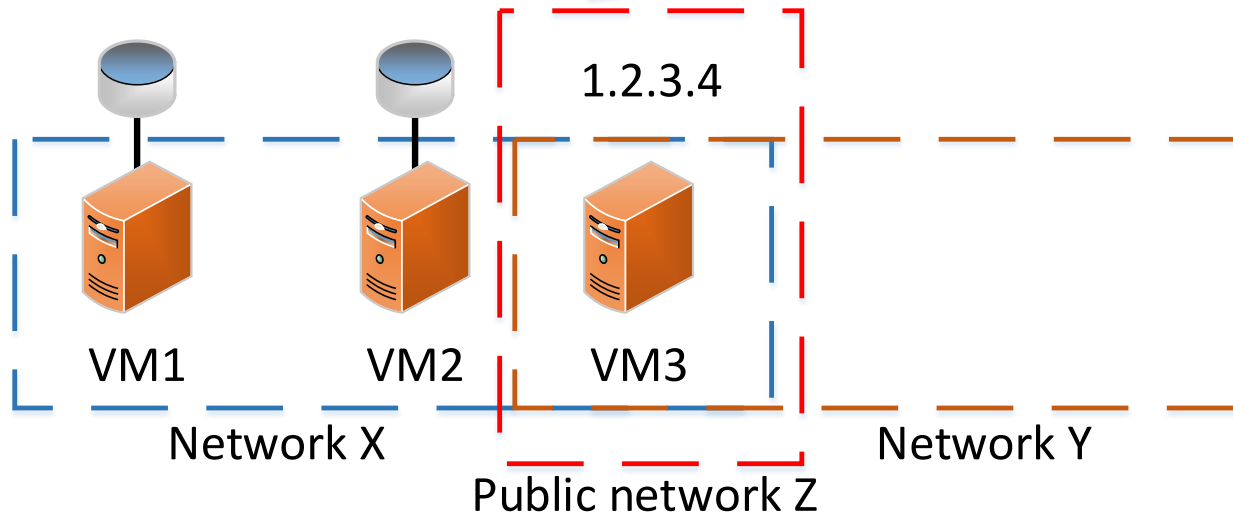


Cloud interface
server



1. Connect to 1.2.3.4

Virtualized resources



Excercise 1 – Getting support

- Search instructions from wiki about how technical contact can add more users
 - Login to <https://support.forgeservicelab.fi>
 - Tip: Search for "More users"

Excercise 2 – Instant collaboration

- Install XMPP client and join forge-support channel
 - Login to <https://support.forgeservicelab.fi>
 - Search instructions from wiki about how to install XMPP instant messaging client
 - Tip: Search for "XMPP"
 - Install XMPP client, configure it and join forge-support channel

Excercise 3 – Launch Linux image

- Search instructions from wiki about how to launch a Linux image using Horizon GUI
 - Login to <https://support.forgeservicelab.fi>
 - Tip: Search for "Launch Linux image"
- Launch Ubuntu 14.04
 - Login to <https://cloud.forgeservicelab.fi>
 - Launch Ubuntu 14.04 server image from the list of available images
 - Finally terminate the instance

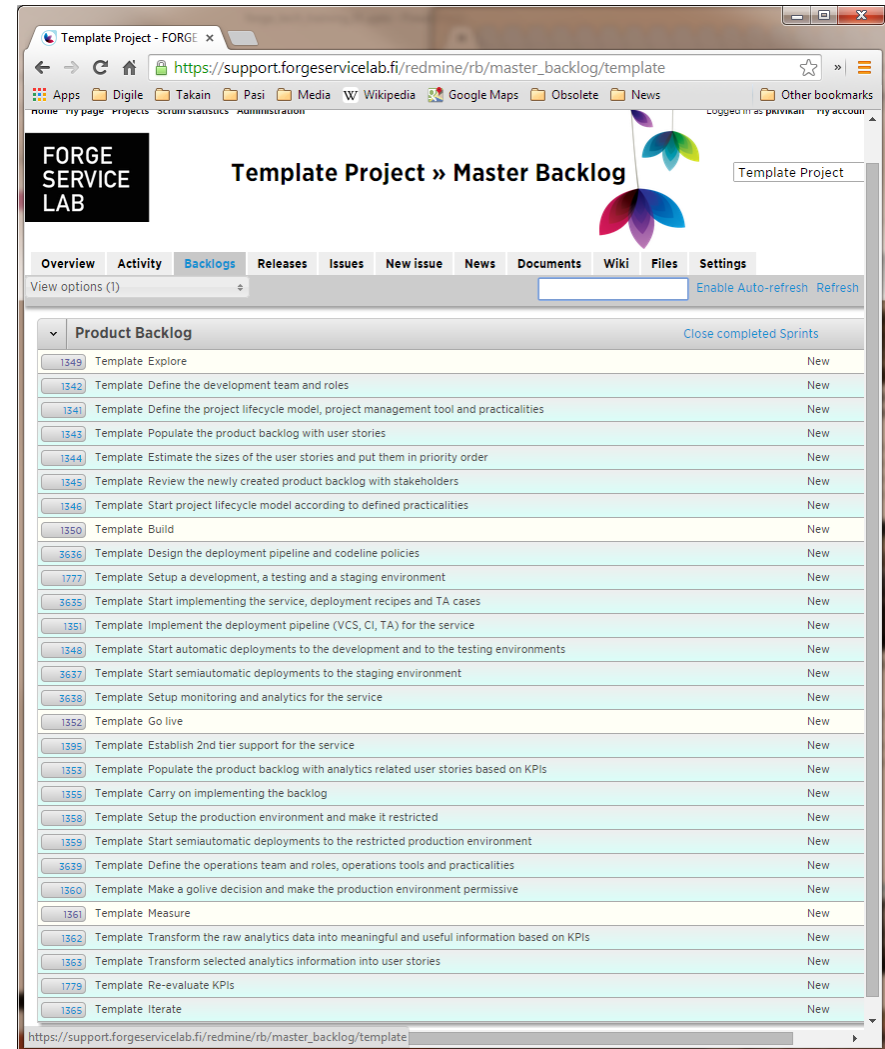


FORGE SaaS

FORGE SaaS - Redmine



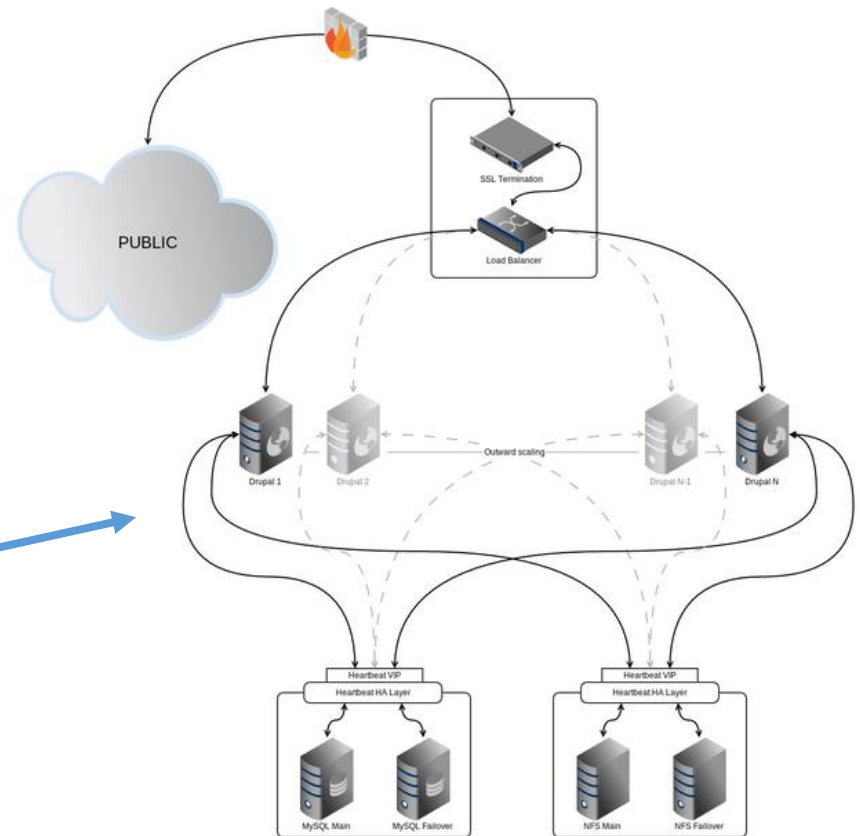
- Project management tool
 - Opensource and licenced under the terms of GNU General Public License v2 (GPL)
- FORGE usage
 - Project management and operations
 - FORGE backlog
 - Support requests (issues)
 - Announcements (news)
- Everybody
 - Documentation (wiki)
 - Collaboration (forums)
- Service Development usage
 - Project management tool
 - Available on request
 - Template project



<https://support.forgeservicelab.fi>

FORGE SaaS - GitLab

- Version control tool similar to Github
 - Completely free and opensource and licenced under the terms of MIT license
- Repository management
- Example recipes for building build digital services
- Collaboration on code



<https://git.forgeservicelab.fi>

FORGE SaaS - XMPP

- XMPP is Extensible Messaging and Presence Protocol
 - Open protocol (open standard)
 - Implementations can be developed using any software license
- Communications protocol for message-oriented middleware based on XML (Extensible Markup Language)
- FORGE's fast support channel
- Instant collaboration with others



<https://git.forgeservicelab.fi>

FORGE Add-ons - Ansible

- Ansible is an opensource tool for application configuration management, deployment and orchestration
- Simple way to manage the complexity of application deployment
- Rather than writing custom code to automate systems, your team writes simple task descriptions = playbooks
- Small learning curve - understand on first read
- FORGE has several reusable playbooks available in GitLab
- It's encouraged to share reusable playbooks with others
- Deployment can be just a matter of pressing enter

A N S I B L E



Playbooks are available at <https://git.forgeservicelab.fi>

FORGE Add-ons – Ansible playbooks

- FORGE provides some reusable recipes to deploy certain services e.g.
 - CI – Jenkins
 - TA – Robot test framework
 - Monitoring – Nagios
 - Containers - Docker demo
 - Example WEB service – Drupal cluster
 - Identity backend – SimpleSAMLphp
 - Analytics
 - ...

A N S I B L E



Nagios®



Playbooks are available at <https://git.forgeservicelab.fi>

FORGE - Plaza

- It contains information about parties and services they offer
- It helps parties to find relevant partners and service components
- It helps parties to showcase their offering and participate in competitive biddings

FORGE Plaza

EXPERTISE AND BUILDING BLOCKS FOR DIGITAL SERVICE CREATION, BROUGHT TO YOU BY FORGE PARTNERS

FORGE Plaza is a service catalogue for finding those who can help you in making your digital service idea a reality. Here are offerings from expert service professionals in the fields of e.g. service design, customer understanding, business and systems development and legal services, ranging from consultancy and design to software, APIs, datasets, graphical objects and more.

In case you are a digital service professional, and looking for customers and partners, join FORGE Plaza with your offering from [Join FORGE](#). In the future, FORGE projects can showcase their results here for finding new partners and users.

CATEGORY

- ☐ Training
- ☐ Business Development +
- ☐ Project Services +
- ☐ Customer Understanding +
- ☐ Design +
- ☐ System Development +
- ☐ Community management +
- ☐ Legal +

TAGS

Choose some options

VIEW EDIT

Agile Surveys



Takain's Agile Surveys capture in-the-moment feedback for valuable insights.

Deployment Services (Legal and Contracting)



Specialist legal support for service deployment

Agile Usability Testing



Very popular and efficient method to evaluate your web site or other interactive product.

Mobile service development



Mobile Service and Application Development

Testing facilities in Helsinki city center (Kamppi)



Get your audience to easily accessible location!

Visual Design



Adds branding and appropriate tone to the user interface. Enhances usability further by visual emphasis.

Quick prototyping



The best way to test and communicate your product's novel concepts is an interactive prototype.

Expert review



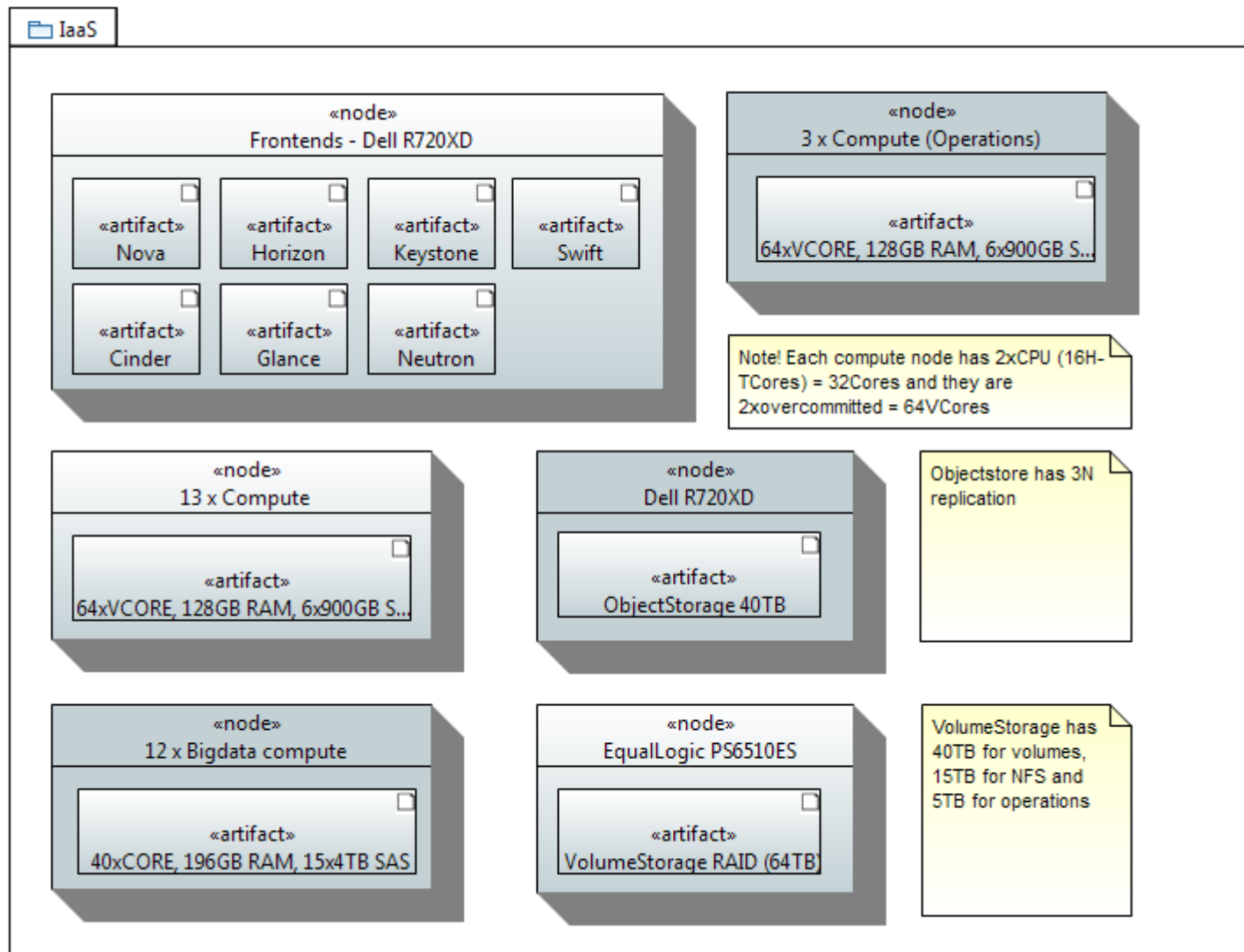
Get external eyes to evaluate your product, efficiently and accurately!

Usability Expert Review

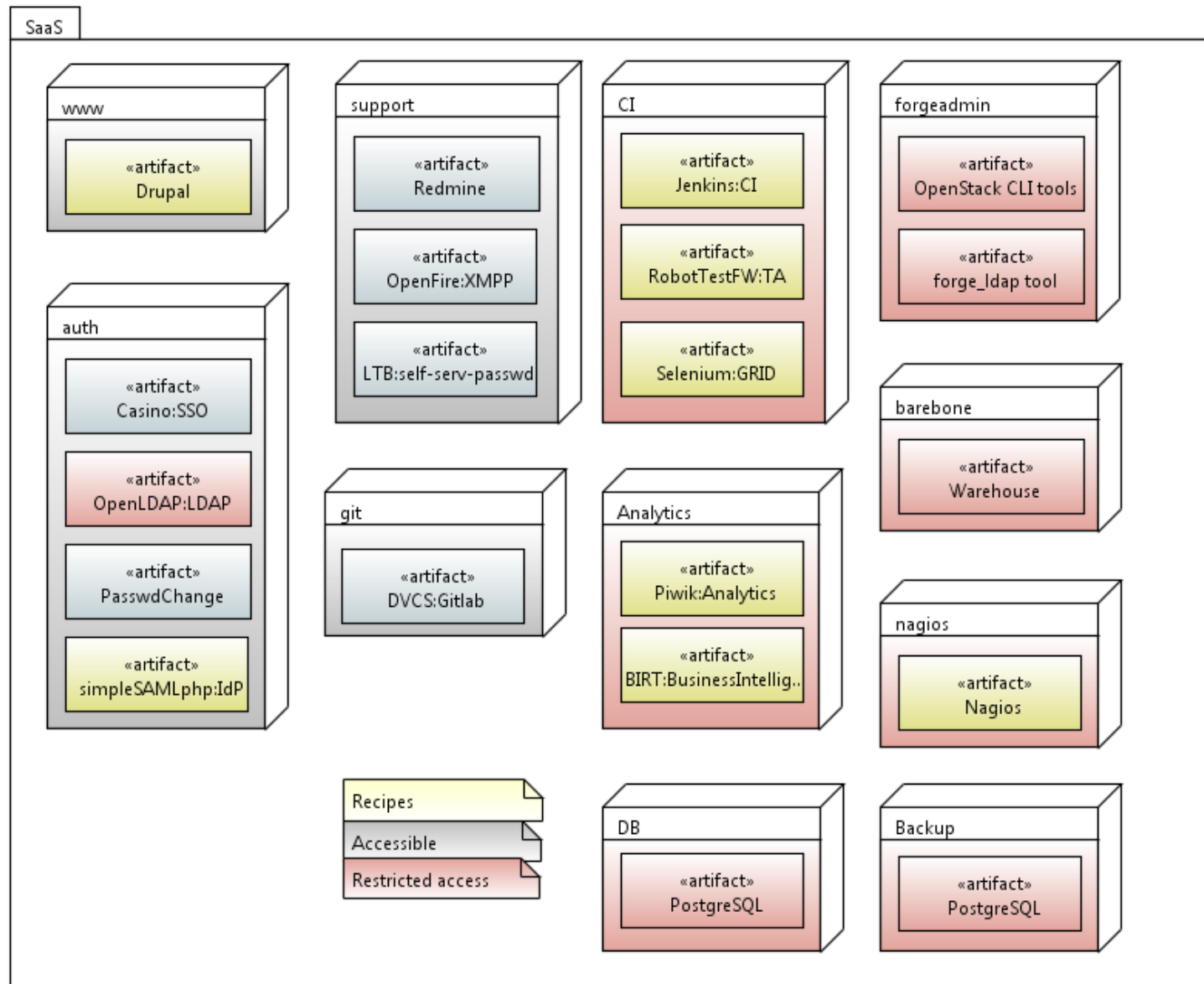


Seasoned User Experience specialists evaluate your product based on expertise and accepted best practices.

FORGE IaaS summary



FORGE SaaS and Add-ons summary





FORGE IaaS screenshots

FORGE IaaS



The image shows the OpenStack Dashboard login interface. At the top is the OpenStack logo and the word 'DASHBOARD'. Below that is a 'Log In' section with two input fields: 'User Name' and 'Password'. A blue 'Sign In' button is located at the bottom right of the login section.

Graphical admin UI to FORGE computing services makes administration tasks easy

- Create Linux images
- Launch instances
- Modify firewall, networks
- Create volumes and attach them to instances

CLI admin access is possible through APIs to the computing services and by UI. Eg. Start/stop instance can be done from local host.

```
pas1.kivikangas@ID20260 ~
$ nova list
+-----+-----+-----+-----+-----+-----+
| ID                                           | Name                                           | Status | Task State | Power State | Networks |
+-----+-----+-----+-----+-----+-----+
| 88cb8318-837c-490d-8adb-9e044ce54c11      | pak-redmine                                   | ACTIVE  | None       | Running     | tivit=192.168.109.8 |
| fcf02f8-ef36-4d68-96d4-69d61b2bee54      | pak-ubuntu-12.10-server-wp                 | ACTIVE  | None       | Running     | tivit=192.168.109.4 |
| c4fd4ad6-445c-447f-b53b-4d68993a7bc9     | test-vagrant-vm2                           | ACTIVE  | None       | Running     | tivit=192.168.109.5 |
| b5517640-7309-42d3-a37e-006b76514fa0     | tomkentos63                                  | ACTIVE  | None       | Running     | tivit=192.168.109.6 |
| 5bb88903-49e6-40a3-9e1e-2cbee173186d     | tomkentos634                                | SUSPENDED | None       | Shutdown    | tivit=192.168.109.3 |
+-----+-----+-----+-----+-----+-----+

pas1.kivikangas@ID20260 ~
$ nova show 88cb8318-837c-490d-8adb-9e044ce54c11
+-----+-----+
| Property | Value |
+-----+-----+
| status   | ACTIVE |
| updated  | 2013-09-26T13:54:17Z |
| OS-EXT-STS:task_state | None |
| key_name | pakivika |
| image    | turnkey-redmine-12.1-squeeze-amd64 (cab28057-f402-4188-a2e1-0fcdb4cefdb0) |
| hostid   | cfe786f7d312595245Fe16be0dc405983157e708a4fb017c088cfe2f |
| OS-EXT-STS:vm_state | active |
| flavor   | m1.small (2) |
| security_groups | 88cb8318-837c-490d-8adb-9e044ce54c11 |
| user_id   | [{"u' name': 'u' default' }, {u' name': 'u' redmine-group' }] |
| name      | 52b81206c43b46f9ba57059eds1f9f9 |
| created   | 2013-09-26T13:53:58Z |
| tenant_id | 9fffb712b87da476aa02d7c4d6c9b722e |
| OS-DCF:diskConfig | MANUAL |
| accessIPv4 |  |
| progress | 0 |
| OS-EXT-STS:power_state | 1 |
| metadata | {} |
| tivit network | 192.168.109.8 |
| config_drive |  |
+-----+-----+

pas1.kivikangas@ID20260 ~
$
```

FORGE IaaS



openstack
DASHBOARD

[Project](#) [Admin](#)

CURRENT PROJECT

Manage Compute

[Overview](#)

[Instances](#)

[Images & Snapshots](#)

[Access & Security](#)

Edit Security Group Rules

Logged in as: | [Settings](#) [Help](#) [Sign Out](#)

Security Group Rules

[+ Add Rule](#) [Delete Rules](#)


<input type="checkbox"/>	IP Protocol	From Port	To Port	Source	Actions
<input type="checkbox"/>	ICMP	0	0	default	Delete Rule
<input type="checkbox"/>	TCP	1	65535	default	Delete Rule
<input type="checkbox"/>	UDP	1	65535	default	Delete Rule

Displaying 3 items

Firewall rules can be configured on the fly to enable or disable access from internet

FORGE IaaS




openstack
DASHBOARD

[Project](#) [Admin](#)

CURRENT PROJECT

Manage Compute

Overview

Instances

Images & Snapshots

Access & Security

Manage Network

Networks

Routers

Network Topology

Images & Snapshots

Logged in as: [Settings](#) [Help](#) [Sign Out](#)

Images

[Project \(6\)](#) [Shared with Me \(0\)](#) [Public \(8\)](#) [+ Create Image](#) [Delete Images](#)

<input type="checkbox"/>	Image Name	Status	Public	Format	Actions
<input type="checkbox"/>	CentOS_6.4-x86_64	Active	No	VMDK	Launch More ▾
<input type="checkbox"/>	turnkey-gitlab-13.0-wheezy-i386		No	VMDK	Launch More ▾
<input type="checkbox"/>	turnkey-redmine-13.0-wheezy-i386				
<input type="checkbox"/>	turnkey-wordpress-13.0-wheezy-i386				
<input type="checkbox"/>	turnkey-tomcat-13.0-wheezy-i386				
<input type="checkbox"/>	ubuntu-12.10-server-amd64				

Displaying 6 items

Instance Snapshots

[Delete Snapshots](#)

<input type="checkbox"/>	Image Name	Status	Public	Format	Actions
<input type="checkbox"/>	CentOS_6.4-x86_64_with_OpenLDAP	Active	No	QCOW2	Launch More ▾
<input type="checkbox"/>	CentOS_6.4-x86_64_with_redmine_update2	Active	No	QCOW2	Launch More ▾
<input type="checkbox"/>	CentOS_6.4-x86_64_with_redmine	Active	No	QCOW2	Launch More ▾

Some provided **Linux images** enable quick start

- They can be used to start new instances
- New images can be created and used
- Snapshots can be taken for backing up

FORGE IaaS




openstack
DASHBOARD

Project Admin

CURRENT PROJECT

Manage Compute

Overview

Instances

Images & Snapshots

Access & Security

Manage Network

Networks

Routers

Network Topology

Instance Detail: pak-turnkey-tomcat-13.0

Logged in as: Settings Help Sign Out

Overview Log Console

Instance Console

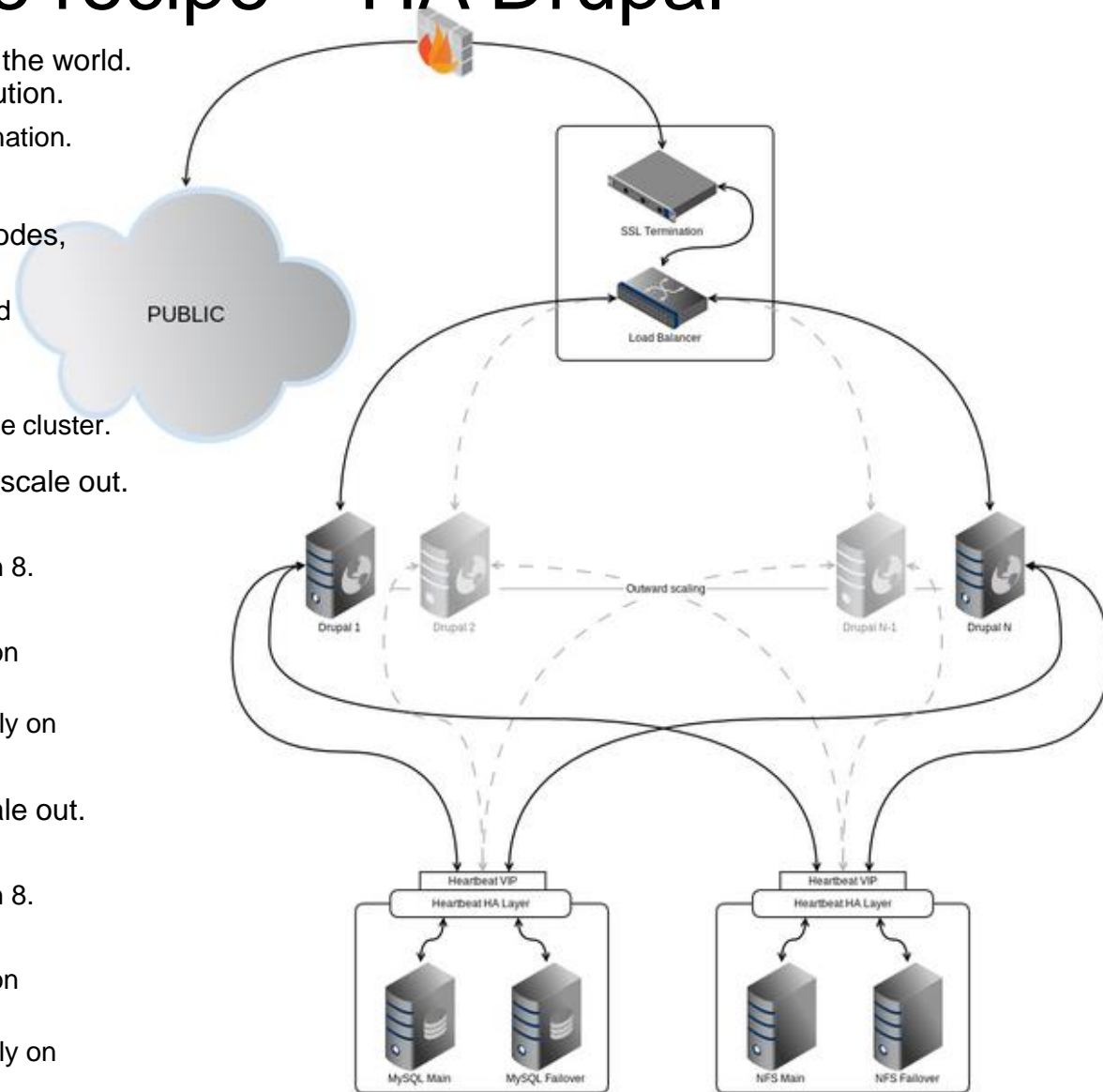
If console is not responding to keyboard input: click the grey status bar below. [Click here to show only console](#)

Connected (encrypted) to: QEMU (instance-0000000)

Instance access is possible straight from the browser and by SSH

Example service recipe – HA Drupal

- **Load Balancer:** Only element exposed to the world. Performs SSL termination and load distribution.
 - [Nginx](#) web server to handle SSL termination.
 - [HAProxy](#) load balancer.
- **Drupal webserver cluster:** At least two nodes, scales out.
 - [Apache](#) web server with mod_php5 and mod_rewrite to serve [Drupal](#)
 - [PHP5](#) as per Drupal's requirements
 - [NFS client](#) to access the shared storage cluster.
- **MySQL HA cluster:** Two nodes, does not scale out.
 - [MySQL server](#) version 5.1 or higher.
 - [DRBD](#) distributed block device, version 8.
 - [Heartbeat](#) cluster daemon.
 - [Python Nova Client](#) tool, needed only on OpenStack deployments.
 - [Heartbeat FloatingIP](#) script, needed only on OpenStack deployments.
- **NFS HA cluster:** Two nodes, does not scale out.
 - [NFS server](#) to provide shared storage.
 - [DRBD](#) distributed block device, version 8.
 - [Heartbeat](#) cluster daemon.
 - [Python Nova Client](#) tool, needed only on OpenStack deployments.
 - [Heartbeat FloatingIP](#) script, needed only on OpenStack deployments.





FORGE SaaS screenshots

Redmine, GitLab, XMPP, Plaza

Forums

[Home](#) [My page](#) [Projects](#) [Scrum statistics](#) [Administration](#)



FORGE
SERVICE
LAB


FORGE Forums

Search: FORGE Forums ▼

[Overview](#) [Activity](#) [News](#) [Forums](#) [Settings](#)

Forums

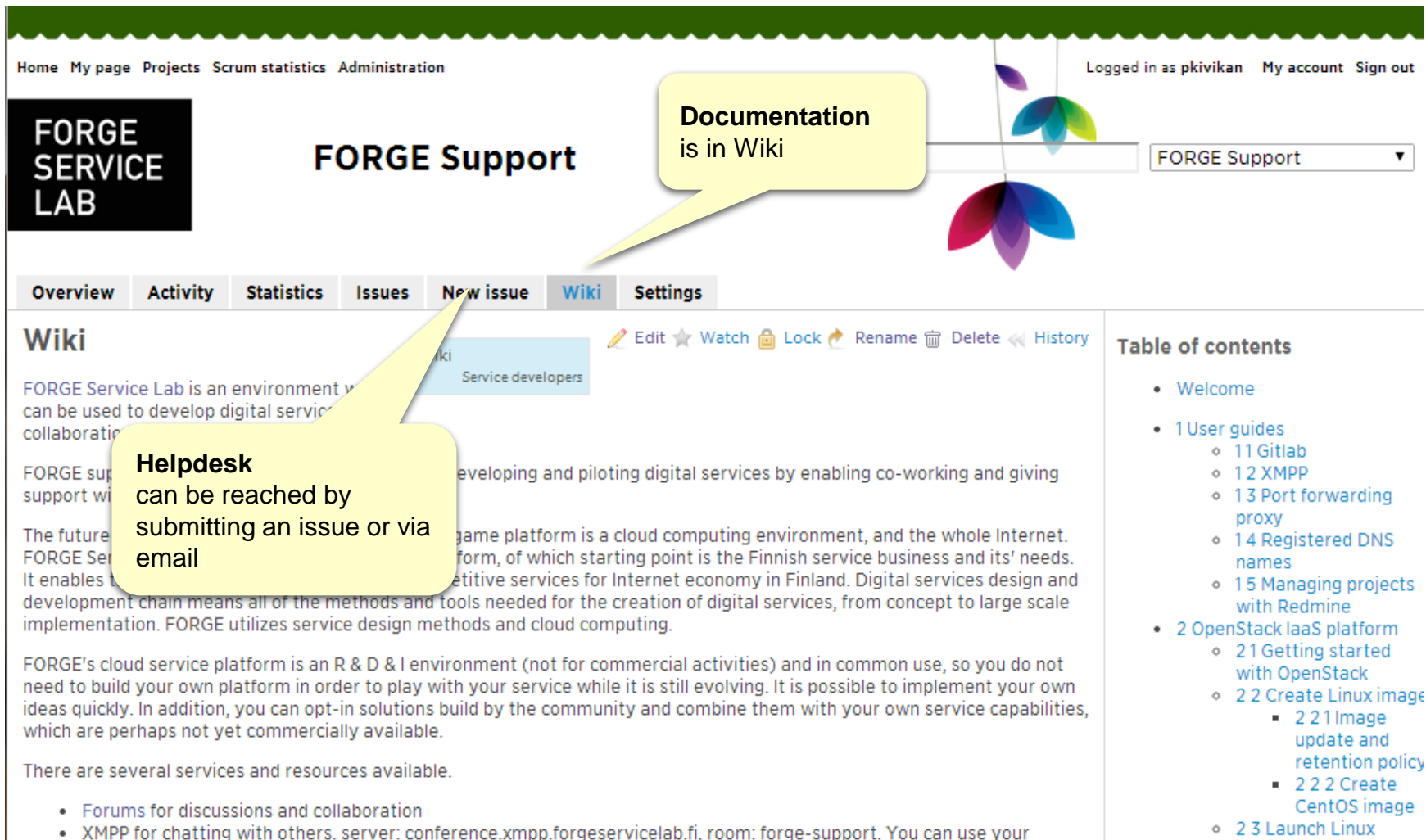
Forum	Topics	Messages	Last message
 Generic discussion Miscellaneous discussions about FORGE	0	0	
 FORGE OpenStack FORGE OpenStack related discussion	0	0	

Also available in:  Atom

Discussion forums

- Get important information
- Provide feedback
- Discuss and collaborate with others

Wiki documentation



The screenshot shows the Forge Service Lab Redmine interface. At the top, there's a navigation bar with links: Home, My page, Projects, Scrum statistics, Administration. On the right, it says "Logged in as pkivikan" with links for "My account" and "Sign out". The main header area features the "FORGE SERVICE LAB" logo on the left and "FORGE Support" in the center. A dropdown menu next to "FORGE Support" is open, showing "FORGE Support". Below the header is a tabbed interface with tabs: Overview, Activity, Statistics, Issues, New issue, Wiki (selected), and Settings. The "Wiki" tab is active, displaying the "Wiki" page content. A callout bubble points to the "Wiki" tab with the text "Documentation is in Wiki". Another callout bubble points to the "New issue" tab with the text "Helpdesk can be reached by submitting an issue or via email". The Wiki page content includes a title "Wiki", a description of Forge Service Lab, and a list of services. On the right side of the Wiki page, there is a "Table of contents" section with a list of links.

Home My page Projects Scrum statistics Administration

Logged in as pkivikan My account Sign out

FORGE SERVICE LAB

FORGE Support

FORGE Support

Overview Activity Statistics Issues New issue **Wiki** Settings

Wiki

FORGE Service Lab is an environment where you can be used to develop digital services and collaboration.

FORGE support can be reached by submitting an issue or via email.

FORGE support is a cloud computing environment, and the whole Internet. The future of the Internet is a cloud computing environment, and the whole Internet. Forge Service Lab is a cloud computing environment, and the whole Internet. It enables the development of digital services for Internet economy in Finland. Digital services design and development chain means all of the methods and tools needed for the creation of digital services, from concept to large scale implementation. FORGE utilizes service design methods and cloud computing.

FORGE's cloud service platform is an R & D I environment (not for commercial activities) and in common use, so you do not need to build your own platform in order to play with your service while it is still evolving. It is possible to implement your own ideas quickly. In addition, you can opt-in solutions build by the community and combine them with your own service capabilities, which are perhaps not yet commercially available.

There are several services and resources available.

- Forums for discussions and collaboration
- XMPP for chatting with others. server: conference.xmpp.forgeservicelab.fi, room: forge-support. You can use your

Table of contents

- Welcome
- 1 User guides
 - 1.1 Gitlab
 - 1.2 XMPP
 - 1.3 Port forwarding proxy
 - 1.4 Registered DNS names
 - 1.5 Managing projects with Redmine
- 2 OpenStack IaaS platform
 - 2.1 Getting started with OpenStack
 - 2.2 Create Linux image
 - 2.2.1 Image update and retention policy
 - 2.2.2 Create CentOS image
 - 2.3 Launch Linux

Agile project management tool

Home My page Projects Scrum statistics Administration

Logged in as pkivikan My account Sign out

FORGE SERVICE LAB

FORGE » DIGILE » Master Backlog

» DIGILE

Overview Activity Roadmap **Backlogs** Task board Releases Issues New issue Wiki Files Tests Settings

View options (4)

sprint 2014-07 (summer) 2014-06-25 2014-08-05 0

Sprint backlog

2383	DIGILE	Password change application: Warning message over	Closed
1553	DIGILE	Learn More	Rejected
2294	DIGILE	Web service for monitoring	Closed
2392	DIGILE	Error in ci-playbook	Closed
2375	DIGILE	DOCUMENTATION: Test automation documentation for	Resolved
2326	DIGILE	TA: Test automation example solution for affiliates	New

increment 2014-09 2014-08-04 2014-09-26 119

Release backlog

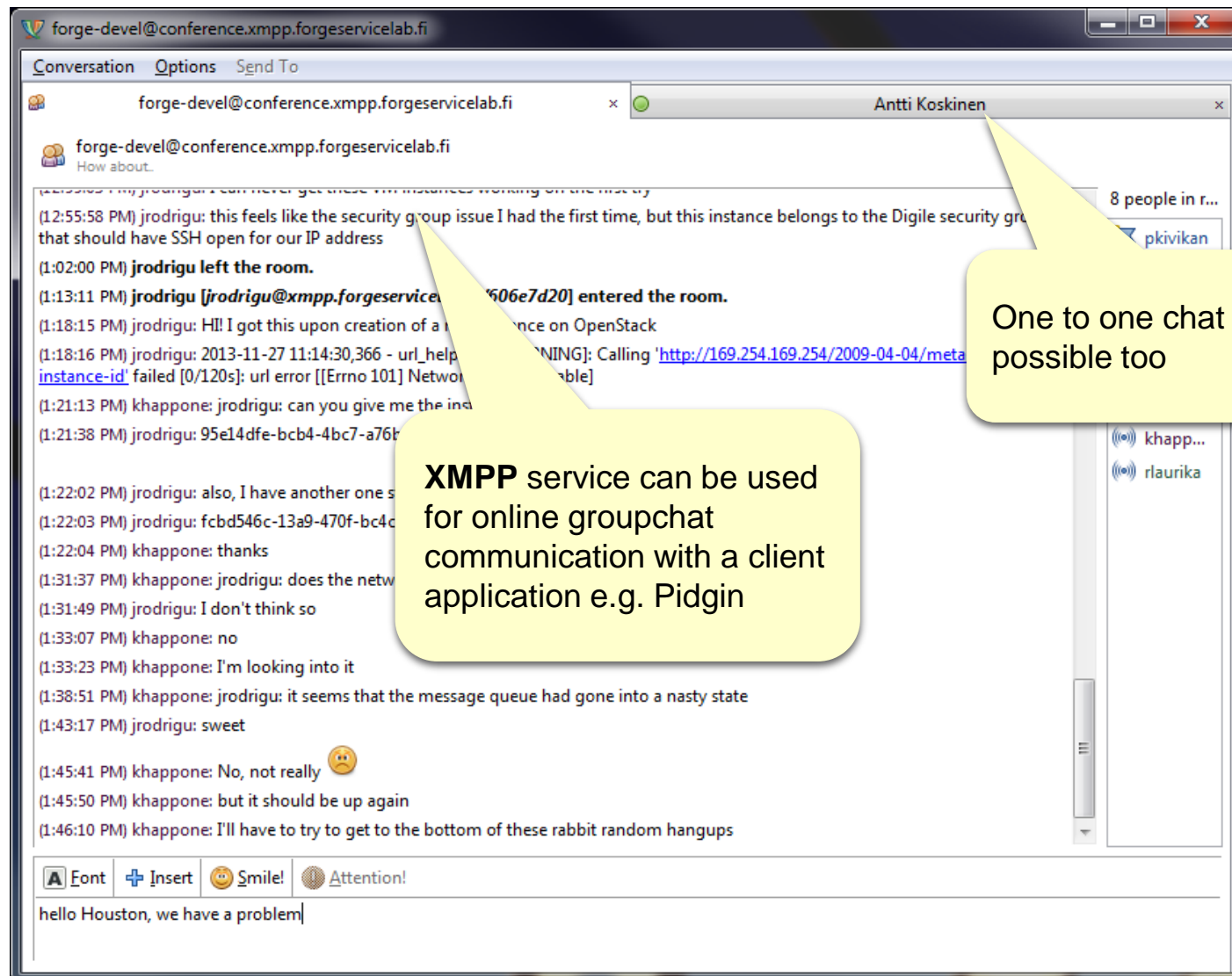
2416	DIGILE	AAI: Authentication and authorization infrastructure : New	
2411	DIGILE	AAI: Virtu	New
2412	DIGILE	AAI: Create user	New
2414	DIGILE	AAI: Create the simple "hello world" application that i	New
2415	DIGILE	AAI: Study other solutions than SimpleSAMLphp and j	New
796	DIGILE	ANALYTICS: Analytics for FORGE WEB, Plaza and Das	New
2341	DIGILE	ANALYTICS: Analytics solution proposal	New
1954	DIGILE	Performance issues in forgeservicelab.fi (production)	New
2288	DIGILE	HP Server configuration	New 13.0
1688	DIGILE	TA: Prepare FORGE Service Lab test environment	Reviewed 21.0
2308	DIGILE	FORGE support services' backups	New
176	DIGILE	CI: Continuous integration of FORGE services	Reviewed
1150	DIGILE	CI: Continuous integration of Gitlab	New 13.0
1663	DIGILE	CI: Continuous integration of CAS	New
2419	DIGILE	CI: Continuous integration of password	New
2325	DIGILE	CI: Continuous integration example for affiliates	New
1151	DIGILE	CI: Continuous integration of Redmine	New 13.0
2321	DIGILE	CI: Single sign on to Jenkins with FORGE CAS	New
2385	DIGILE	Hadoop example playbook for affiliates (savanna?)	New
230	DIGILE	Modern tools for affiliates	Reopened

Sprint taskboard

Story	New	Reviewed	In Progress	Resc
FORGE infrastructure monitoring and notifications (3 hours) 353	Document the current monitoring of FORGE (3 hours) 399			
Support for contractors (3 hours) 392	Define and deploy a process to engage (3 hours) 395			
LDAP management improvements for Open Stack identity (8 hours) 391	Documentation for the module (3 hours) 394	Implement and test the module (3 hours) 393		
Partner & owner of the service design concept (12 hours) 282	Create documentation for FORGE Affiliates what (12 hours) 336	Sign a contract with the partner (12 hours) 335		
Support for manual contracting process (13 hours) 245	Define, document and agree with CSC the (13 hours) 435	Review and update the CSA request template (13 hours) 430	Create a mailbox for forge contracts (13 hours) 410	

Storypoints

Instant messaging



Password management



PASSWORD CHANGE



Your login is required

Enter your old password and choose a new one.
Forgot your password?

- [Email a password reset link](#)

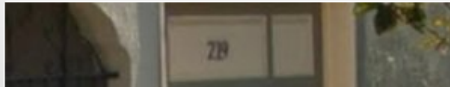
Your password must conform to the following constraints:

- Minimum length: 8
- Maximum length: 16
- Minimum number of uppercase characters: 1
- Minimum number of digits: 1
- Minimum number of special characters: 1
- Your new password may not be the same as your old password



Single sign-on provides means to use same credentials in most of FORGE services

A desired **password** can be selected and forgotten password can be recovered by users

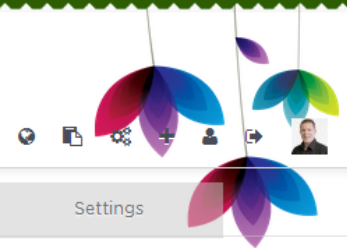
Login	<input type="text"/>
Old password	<input type="password"/>
New password	<input type="password"/>
Confirm	<input type="password"/>



[Privacy & Terms](#)



Send



Files

Commits

Network

Graphs

Merge Requests 0

Settings

master

> ansible_plaza

Name	Last Update	Last Commit	2ad71fe611 – Fixed issue with SSL strengthening on drupal role.	history
group_vars	about 1 month ago	Jorge-Rodriguez	Added development...	
roles	about 23 hours ago	Jorge-Rodriguez	Fixed issue with SSL stre...	
.gitignore	2 months ago	Jorge-Rodriguez	Added note on README rega...	
.gitmodules	4 months ago	Jorge-Rodriguez	Initial submodule restructur...	
README.md	about 1 month ago	Jorge-Rodriguez	Fixed README regarding use c...	
list-partitions.yml	6 months ago	Jorge-Rodriguez	split roles into their own repos...	
plaza.inventory	about 1 month ago	Jorge-Rodriguez	Added complete list of needed variables to group_vars files.	

Git can be used to collaborate, store source code files and version control them. It can be accessed via browser and command line SSH, HTTPS

README.md

Plaza Playbook

This is an ansible playbook to provision the Plaza environment on OpenStack.

Preconditions

This playbook provisions existing computing instances and does not instantiate the machines themselves. This means that it is required to fill in the provided inventory file with the specific details of the virtual machine cluster instantiation.

This playbook expects all computing instances to be Debian! The playbook has been tested against Debian 7.3.0 "Wheezy".

FORGE Plaza

FORGE Plaza



EXPERTISE AND BUILDING BLOCKS FOR DIGITAL SERVICE CREATION, BROUGHT TO YOU BY

FORGE Plaza is a service catalogue for finding those who can help you in making your digital professionals in the fields of e.g. service design, customer understanding, business and system design to software, APIs, datasets, graphical objects and more.

In case you are a digital service professional, and looking for customers and partners, join FORGE Plaza. Your projects can showcase their results here for finding new partners and users.

CATEGORY

- ☐ Training
- ☐ Business Development +
- ☐ Project Services +
- ☐ Customer Understanding +
- ☐ Design +
- ☐ System Development +
- ☐ Community management +
- ☐ Legal +

TAGS

Choose some options

VIEW

EDIT

Agile Surveys



Takain's Agile Surveys capture in-the-moment feedback for valuable insights.

Deployment Services (Legal and Contracting)



Specialist legal support for service deployment

Agile Usability Testing



Very popular and efficient method to evaluate your web site or other interactive product.

Mobile service development



Mobile Service and Application Development

Testing facilities in Helsinki city center (Kamppi)



Get your audience to easily accessible location!

Visual Design



Adds branding and appropriate tone to the user interface. Enhances usability further by visual emphasis.

Quick prototyping



The best way to test and communicate your product's novel concepts is an interactive prototype.

Expert review



Get external eyes to evaluate your product, efficiently and accurately!

Usability Expert Review



Seasoned User Experience specialists evaluate your product based on expertise and accepted best practices.

FORGE Plaza service catalogue

- It contains information about parties and services they offer
- It helps parties to find relevant partners and service components
- It helps parties to showcase their offering and participate in competitive biddings



DIGILE

FORGE Service Lab

DIGILE in a Nutshell

- **DIGILE** is the Center for Science, Technology and Innovation (SHOK) focusing on Internet economy and related technologies and business
- **Mission:** DIGILE creates Internet economy competencies to enable new global business and job growth for DIGILE's stakeholders and partners
- **Three main services:**
 - **Research:** Cooperative national and international research programs to create new technological and business innovations
 - **Solutions:** Facilitation of business ecosystems and lead solution creation to explore new global business opportunities
 - **Digital service creation:** **FORGE Service Lab** for fast digital service creation and competence scaling
- **Core enablers:**
 - International networking
 - Operative excellence
 - Co-creation leadership



FORGE Service Lab

WHAT, WHY, WHO, FOR WHOM

- **WHAT:** FORGE Service Lab is a laboratory for creating digital services in the Internet-era. It is intended as a tool to accelerate the creation of digital services in Finland - *from an idea to a scalable implementation*.
- **WHY:** Internet economy will grow stronger and digitalisation spreads across all industries. Most of the value is being created via digital services. As a result, digital services know-how needs to become one of the nation's core competencies.
- **WHO:** DIGILE, CSC-IT Center for Science, Kainuun Etu Oy with the Ministry of Traffic and Communication, the financing partner for the ramp-up
- **FOR WHOM:** To all who are interested in developing digital services e.g. businesses, educational institutions, business development teams, the public sector – all industries and government sectors are included.



FORGE Service Lab – Offering

Legal & Contract
framework for each
stakeholder: service
developers and partners

Partner network from
multidisciplinary perspective: eg.
Business development, Service
Design, Technical development

Crowdsourcing methods and tools
which enables to create as
meaningful and successful service
as possible from the end users
perspective

Cloud computing platform for
agile and fast ways to develop
and test the services



Offers wide development
framework for service projects
where multiple stakeholders and
partners can share openly the
knowledge and develop efficiently
globally recognisable successful
services

Reference model for
the creation of digital
services, from the
idea to the scalable
implementation

Guidance and support
for the project during the
service creation path in
order to manage the big
picture

More information

- Documentation
 - <https://support.forgeservicelab.fi/redmine/projects/forgesupport/wiki>
- Support tickets
 - <https://support.forgeservicelab.fi/redmine/projects/forgesupport/issues/new>
- XMPP
 - forge-support@xmpp.forgeservicelab.fi
- Email
 - support@forgeservicelab.fi



THANK YOU