



OW2 migration to Xsalto

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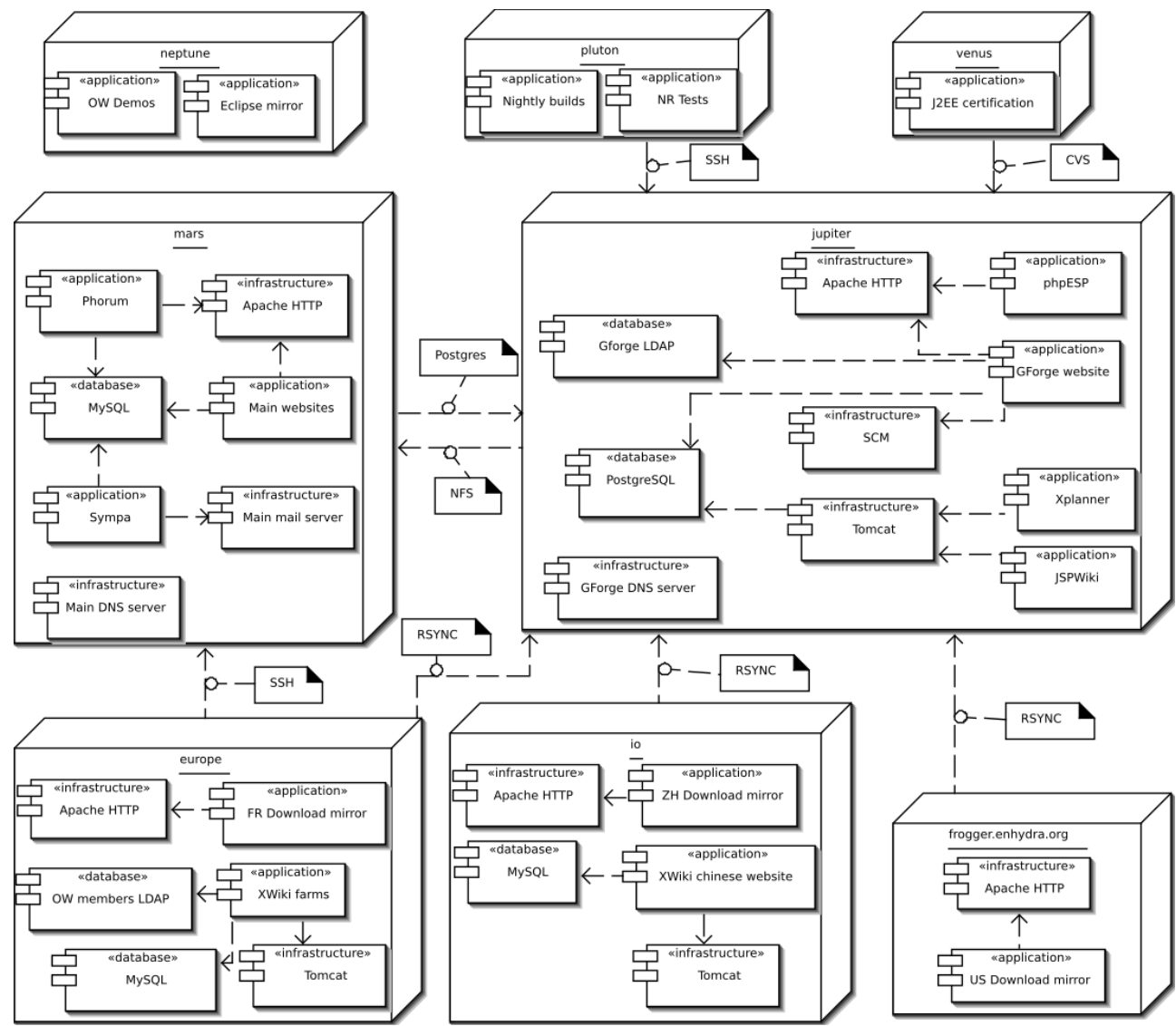
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ObjectWeb architecture overview



➔ Main servers

<i>Name / OS</i>	<i>Hardware</i>	<i>Application</i>
Mars.objectweb.org Debian 3.3.5	Bi-Xeon 2,4 GHz RAM 3 GB SCSI 36 GB Raid1 SCSI 73 GB Raid5	Apache - Main websites Phorum 3.4.8a - Forum Sympa - Mailing List Exim 3 – Mail server MySQL 4.0 – Database (sympa, objectweb, phorum, xplanner) Bind9 – DNS objectweb.org
Jupiter.objectweb.org Debian 3.3.5	Bi-Xeon 2,4 GHz RAM 3 GB SCSI 36 GB Raid1 SCSI 73 GB Raid5	GForge 3 (svn 11.0.8, cvs 1.12.9, apache 1.3.2, PHP 4, ssh, ...) Tomcat 4 – Java web application JSPWiki - Project Wiki PostgreSQL 7.2.1– Forge Database Open LDAP 2.0.23– Forge users Xplanner – XP management phpESP – surveys Bind9 – DNS forge.objectweb.org

➔ Mirroring servers

<i>Name / OS</i>	<i>Hardware</i>	<i>Application</i>
Europe / Red Hat 4 INRIA Paris	Xeon 3,4 GHz RAM 2 GB SCSI 73 GB SATA 200 GB	FR Download mirror XWiki – diverse wiki MySQL 4.1 – XWiki Database LDAP – OW members (XWiki) 2 nd backup server via rsync
Frogger (Enhydra) / Red Hat 4 FT SF (USA)	Bi-P3 1GHz	US Download mirror
Io / Red Hat 4 FT Beijing (China)	Bi-Xeon 3GHz RAM 2GB SCSI 73 GB Raid1 SCSI 150 GB Raid5	ZH Download mirror XWiki - Chinese website MySQL 4.1 – XWiki database

➔ Secondary servers

<i>Name / OS</i>	<i>Hardware</i>	<i>Application</i>
Saturne Debian 3.1	/P2 300 Mhz RAM 128 MB IDE 3 GB IDE 76 GB	2 nd backup server via rsync
Pluton Red Hat 4	/Bi-P3 1 GHz RAM 644 MB SCSI 36 GB Raid1 SCSI 36 GB Raid5	Non-regression tests (c-jdbc) Nightly builds (c-jdbc, jonas, celtix)
Neptune Debian 3.1	/Bi-P3 500 MHz RAM 1 GB SCSI 10 GB + 10 GB IDE 60 GB	FR Eclipse mirror OW Demo (apache, jonas, enhydra, c-jdbc, tomcat, mysql)

Actual OW2 Servers overview

→ Servers

<i>Name / OS</i>	<i>Hardware</i>	<i>Application</i>
Mars.ow2.org	Bi-Xeon 2 GHz	OW2 new portal
Mandriva 4.0.1	RAM 8 GB	Apache2 2.2.3
Kernel 2.6.18 SMP x86_64	SCSI 36 GB Raid1 SCSI 73 GB Raid5	MySql 5.0.24
Jupiter.ow2.org	Bi-Xeon 2 GHz	Apache
Mandriva 4.0.1	RAM 8 GB	Jonas
Kernel 2.6.18 SMP x86_64	SCSI 36 GB Raid1 SCSI 73 GB Raid5	Bamboo

Problems

➔ Mars

- File system corruption (/var)
- Defective Memory
- Defective Power Supply
- File system saturation

➔ Global

- Servers are not supported anymore
- Old software stack
- Tricky to maintain
- Multiple user referential (LDAP, DB)

Opportunities

- ➔ **Outsource servers**
- ➔ **Install more uptodate software stack**
- ➔ **Upgrade some critical software (Gforge)**
- ➔ **Simplify maintenance**
- ➔ **Automate alarms**
- ➔ **Write procedures**
- ➔ **Keep resources for futur evolution**
- ➔ **Virtualisation (VmWare)**

OW2 architecture

➔ Xsalto

- Supervisor
 - Nagios
- Servers
 - Ow2-1 : Gforge 4.5.14
 - Ow2-2 : Web Sites
 - Ow2-3 : Futur evolution

OW2 architecture

➔ Servers configuration

<i>Name / OS</i>	<i>Hardware</i>	<i>Application</i>
ow2-01.xsalto.net 81.200.36.97 Debian 4.1.1 (etch) Kernel 2.6.18 x86_64 / amd64 / SMP	Bi-Xeon 2 GHz RAM 8 GB SCSI 440GB	Gforge 4.5.14 Apache 2.2.3 PHP 4.4.4 / 5.2.0 PhpMyAdmin 2.9.1 Postgres 8.1 Bind9 9.3.4 cvs 1.12.13 ssh 4.3 Sympa 5.2.3
ow2-02.xsalto.net 81.200.36.99 Debian 4.1.1 (etch) Kernel 2.6.18 x86_64 / amd64 / SMP	Bi-Xeon 2 GHz RAM 8 GB SCSI 440GB	MySql 5.0.32 Bind9 9.3.4 ssh 4.3 Nagios 1.4.5 Exim 4 4.63 lvm2 2.2.6
ow2-03.xsalto.net 81.200.36.101 Debian 4.1.1 (etch) Kernel 2.6.18 x86_64 / amd64 / SMP	Bi-Xeon 2 GHz RAM 8 GB SCSI 440GB	MySql 5.0.32 Bind9 9.3.4 ssh 4.3 Nagios 1.4.5 Exim 4 4.63 lvm2 2.2.6

Migration Plan

- ➔ **Map every technical aspects in a document**
- ➔ **Choose new software stack and servers roles**
- ➔ **Install software**
- ➔ **Configure servers**
- ➔ **Copy data from ObjectWeb**
- ➔ **Test interoperability**
- ➔ **Finalise Procedures**
- ➔ **Transmit procedures to Xsalto**
- ➔ **Synchronize and switch domains to Xsalto**
- ➔ **Train an administrator**

Tasks

➔ Hardware and software map

- Hardware / Operating system
- Software
- Configuration files
- Server Interactions
- File systems
 - Organisation
 - Backup policy
- Security policy
- Cron scheduling
- Alarms

Tasks

➔ Project Map

- What resource are used by projects? (gforge/xwiki)
- What should be freezed as part of ObjectWeb?
- What should live and expand in OW2?

➔ Write/Update documentation

- Installation
- Migration
- Administration
- User

Questions ?