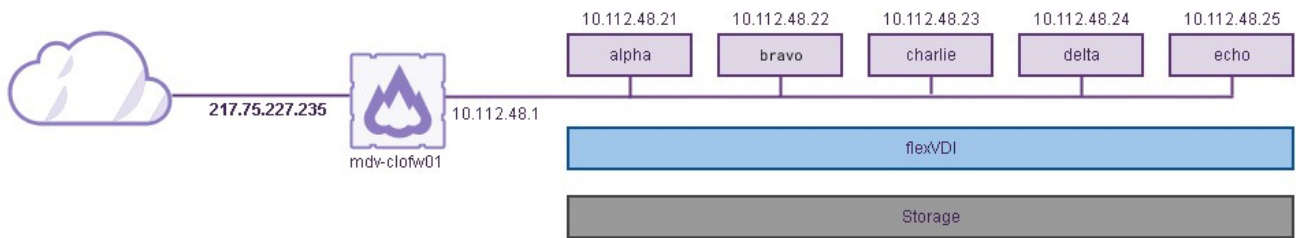


Architecture Specifications

Existing development servers and networking equipment

Virtual Server @ Dayco Host
 2 x VPS @ Fatcow
 Nologin

Production server nodes:



These are the server nodes for the production environment:

	alpha	bravo	charlie	delta	echo
Services	Web servers costaflores.com (magnolia) openvino.org theluckhunters.com martianwinefederation.org	OpenBravo ERP Vinduino DB Weather DB (Openbravo Appliance)	Confluence: openvino.costaflores.com (this site) Jira	Magento shop	Ethereum node
	10.112.48.21	10.112.48.22	10.112.48.23	10.112.48.24	10.112.48.25
CPU	2	2	4	4	2
MEM	4GB	4GB	4GB	4GB	4GB
Storage	75GB 51175 1M-blocks / 26172 1M-blocks /home 77347 1M blocks total	50GB 51033 1M-blocks /	50GB 34780 1M-blocks / 16978 1M-blocks /home	50GB 34780 1M-blocks / 16978 1M-blocks /home	64GB 45094 1M-blocks / 22018 1M-blocks /home
OS	CentOS 7	Ubuntu	CentOS 7	CentOS 7	CentOS 7
Applications	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 PostgreSQL 8.3.x	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67

Local Nodes

These are the nodes deployed in the field:

	foxtrot	golf	hotel		zulu
Services	Costaflores monitoring node, FlexVDI server	Costaflores RaspberryPiWeather node, LoRa gateway	Baussitges Raspberry PiWeather node, LoRa gateway		icinga monitoring node
Networking	192.168.0.67 192.168.0.68 foxtrot-flex				
CPU	Intel NUC, i5-4250U @1.30GHz	RaspberryPi 3	RaspberryPi 3		
MEM	16GB				
Storage	230GB	64GB	64GB		
OS	Centos7	Raspbian Lite	Raspbian Lite		
Applications	FlexVDI, zabbix				

Backup Nodes

These are the replica nodes for backup and testing:

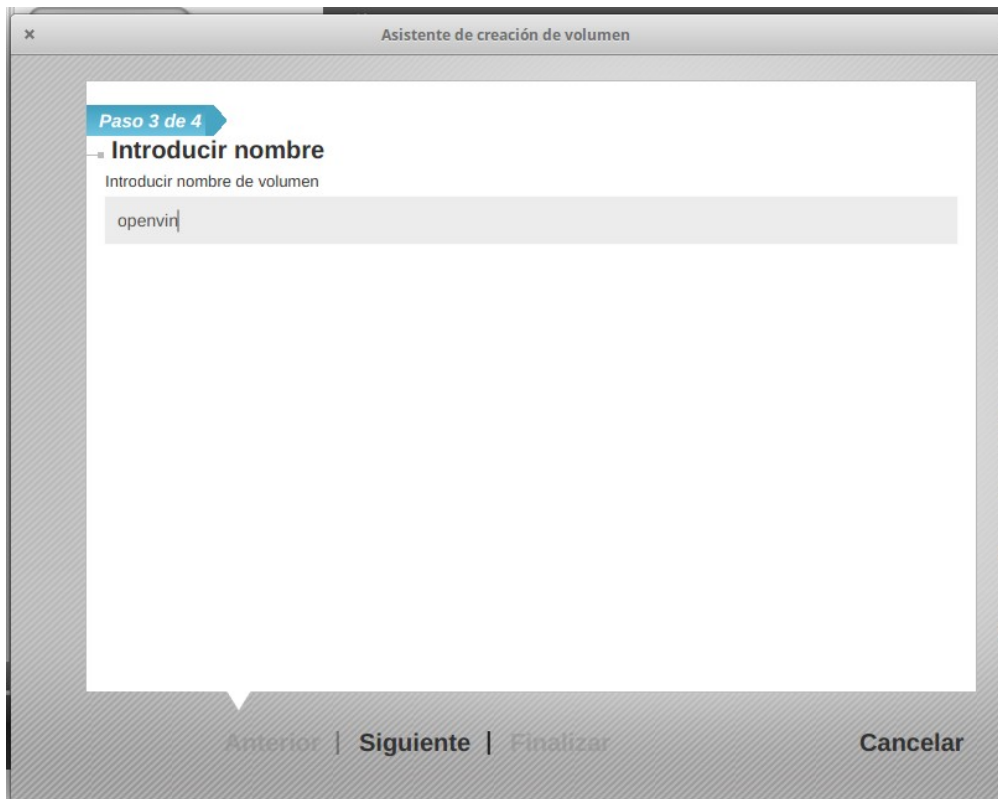
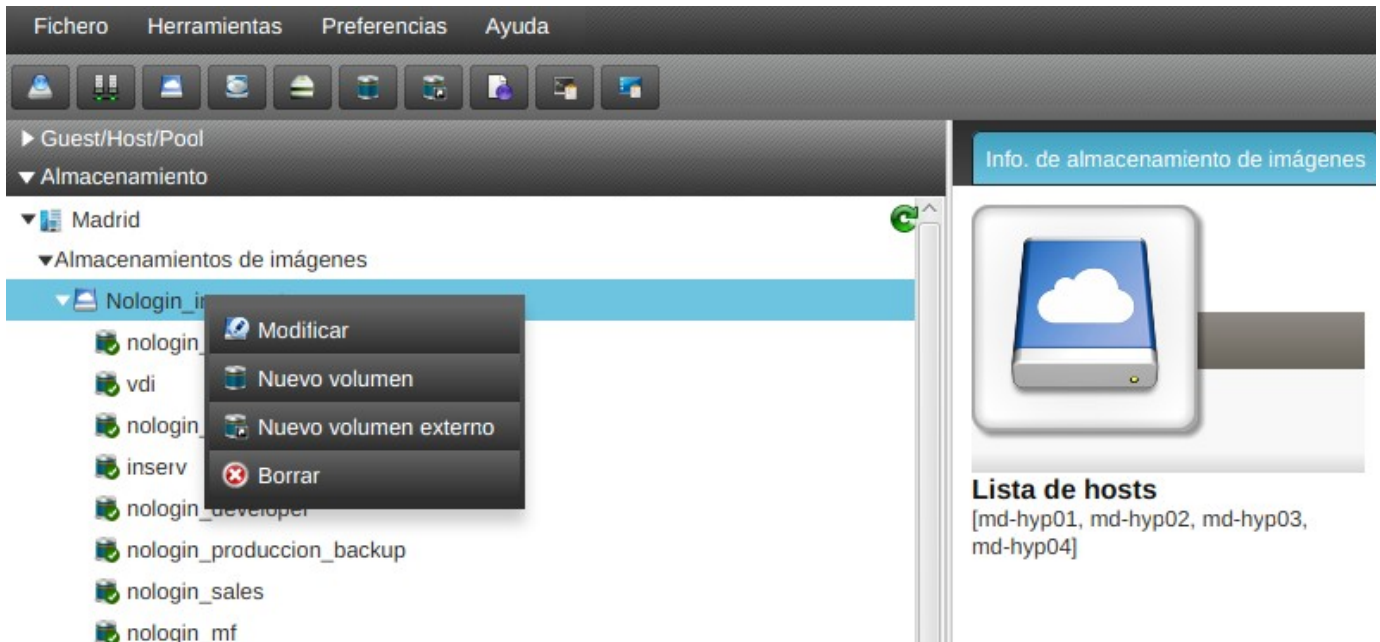
	november	oscar	papa	quebec	romeo
Services	Backup of alpha	Backup of bravo	Backup of charlie	Backup of delta	Backup of Echo
Networking	192.168.0.21	192.168.0.22	192.168.0.23	192.168.0.24	192.168.0.25
CPU	1	1	1	1	1
MEM	2GB	2GB	2GB	2GB	2GB
Storage	75GB	50GB	50GB	50GB	64GB
OS	CentOS 7	Ubuntu	CentOS 7	CentOS 7	CentOS 7
Applications	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 PostgreSQL 8.3.x	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67	Apache v 2.4.6-67 MySQL Server v.5.7.20-1 Java JDK 7u67

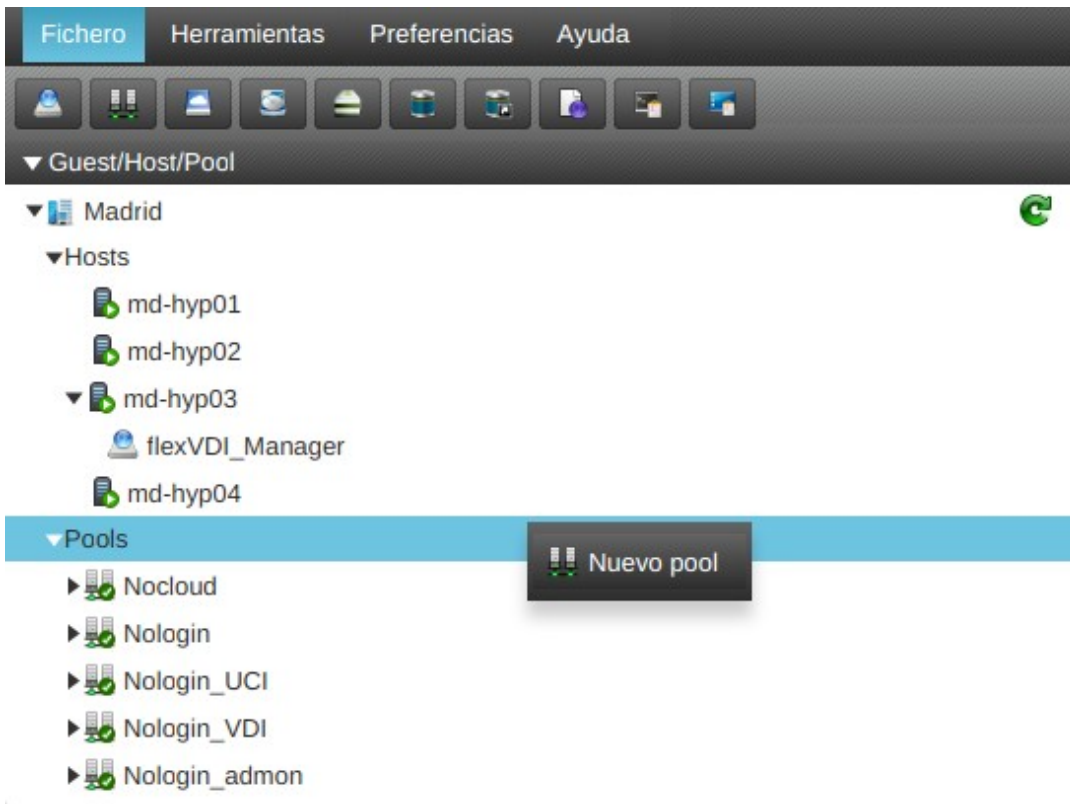
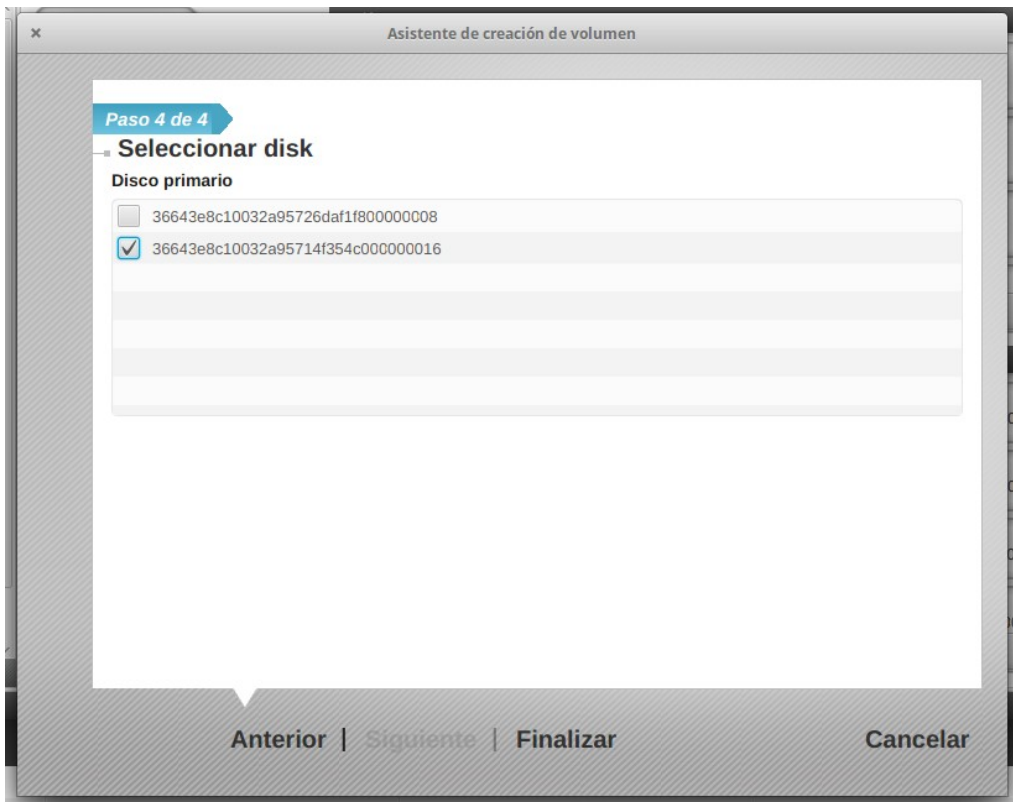
FlexVDI

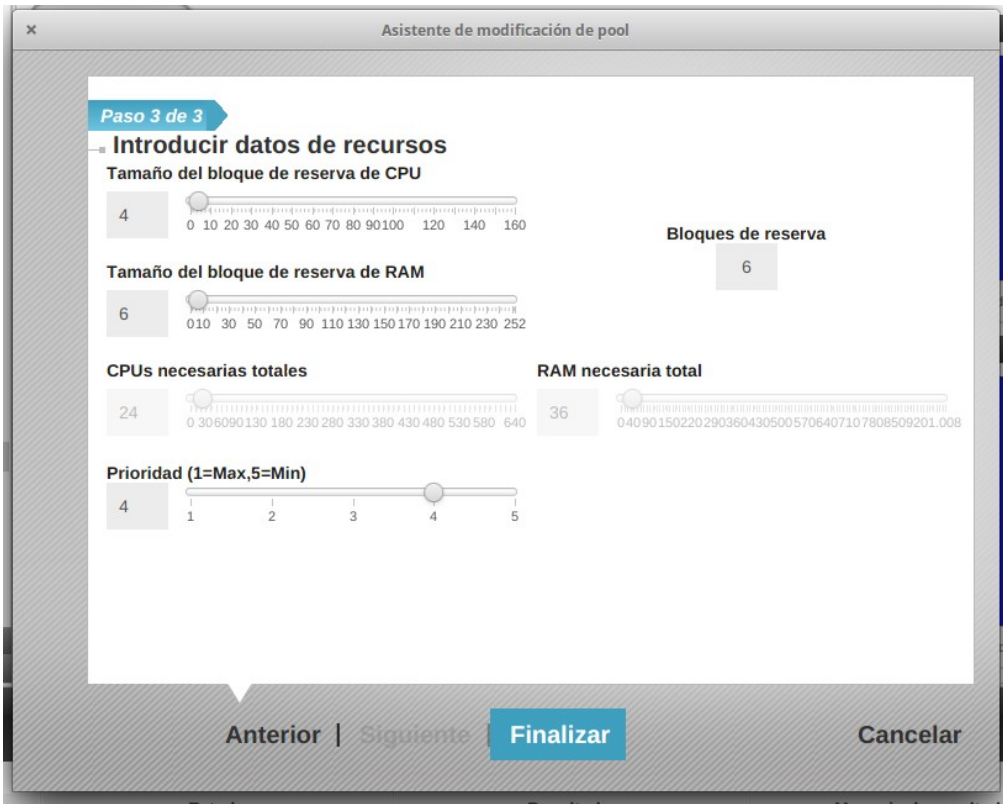
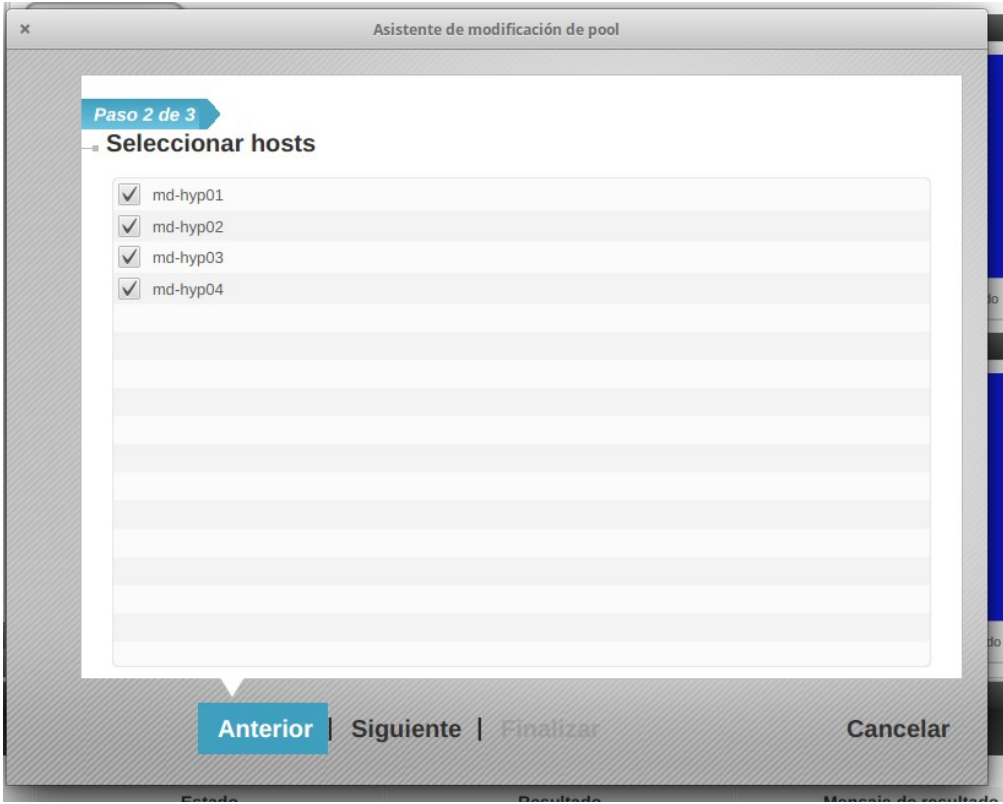
FlexVDI is the Open Source virtualization software used to virtualize physical hardware into the different virtual nodes. More information about FlexVDI can be found [here](#).

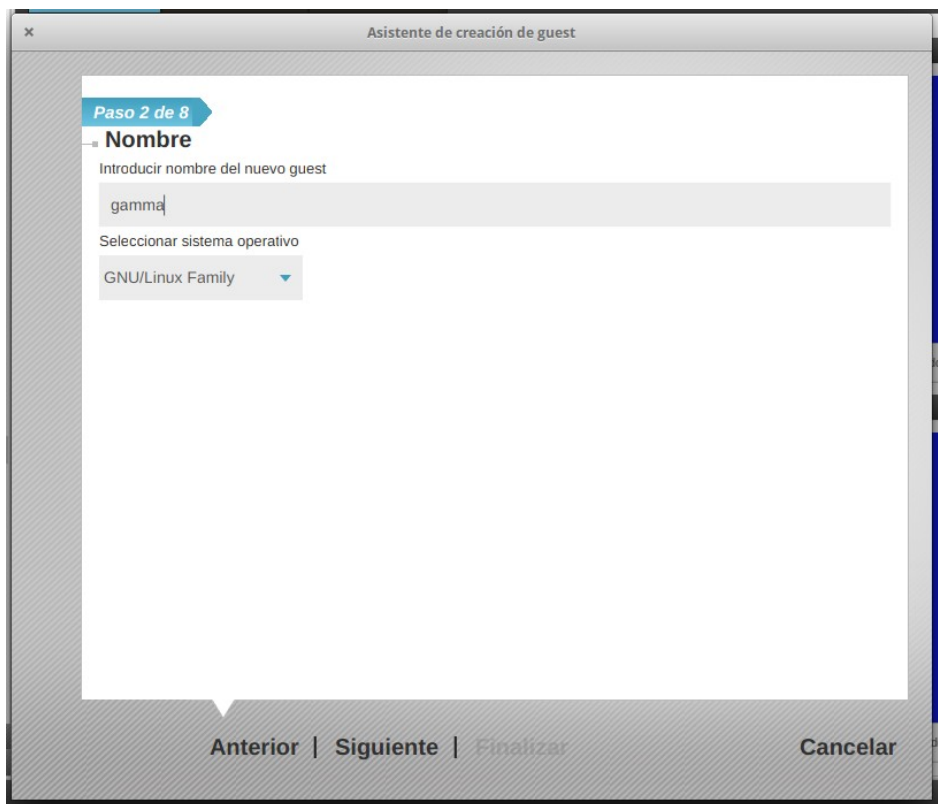
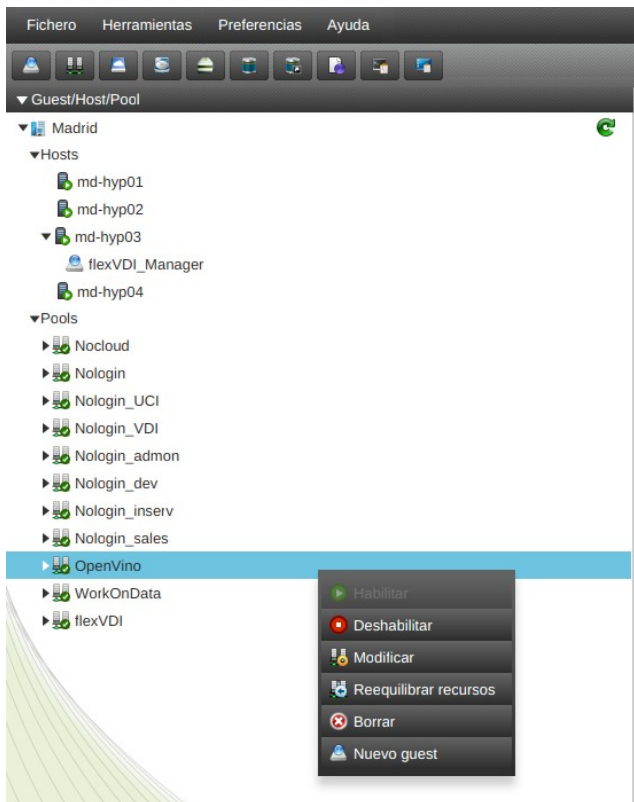
These are the high-level steps used to create the five OpenVino virtualized nodes:

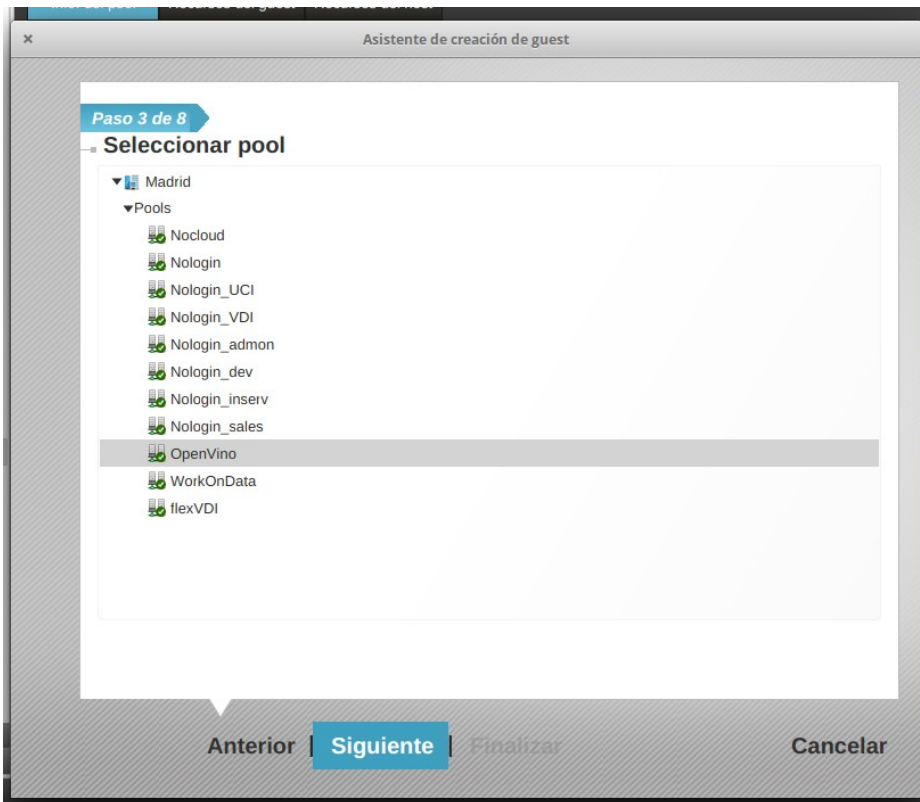
1. Create the storage necessary in the base storage array:













OpenVino



alpha



beta



charlie




delta



echo

Info. del pool Recursos del guest Recursos del host



Nologin_sales

estado Estado
active

Nombre del pool
Nologin_sales

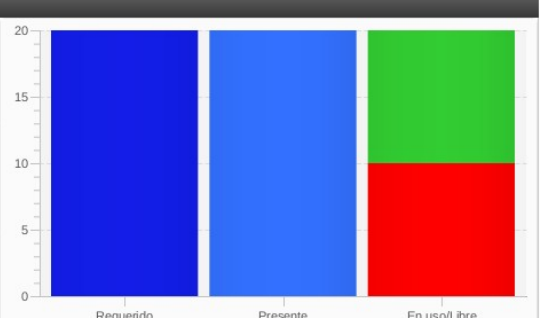
Tamaño de bloque de CPU	Tamaño de bloque de ...
4	10

Prioridad (1=Max,5=Min)
3

Lista de hosts
[md-hyp01, md-hyp02, md-hyp03, md-hyp04]

CPU

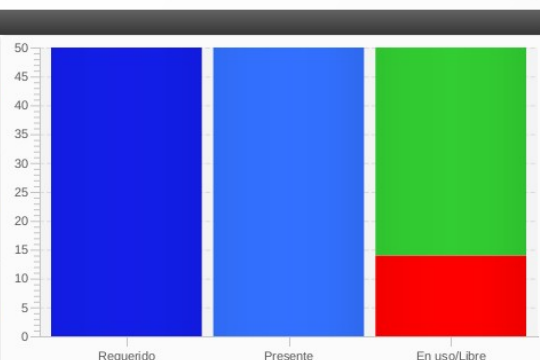
CPU s necesarias	20
CPU s presentes	20
CPU s libres	10



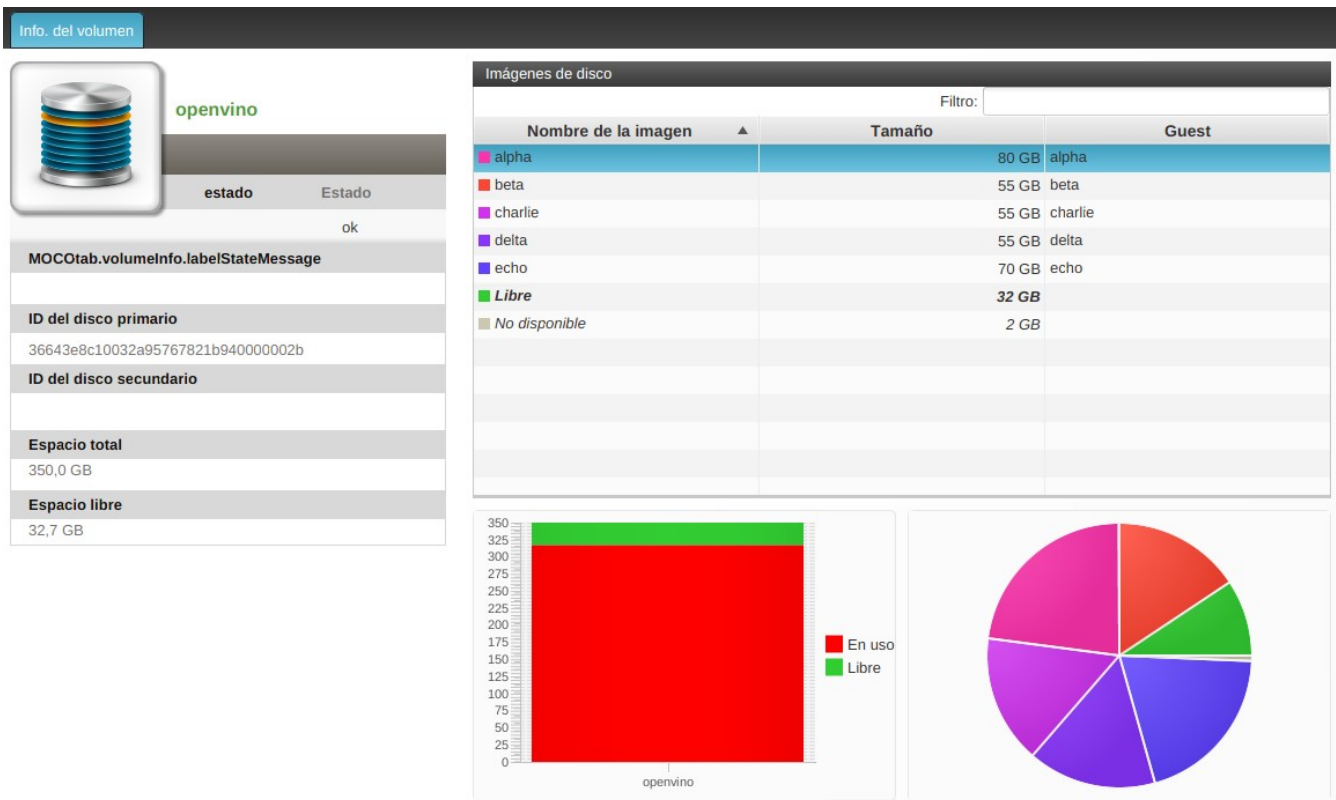
Requerido	Presente	En uso/Libre
-----------	----------	--------------

RAM

RAM necesaria	50 GB
RAM presente	50 GB
RAM libre	36 GB



Requerido	Presente	En uso/Libre
-----------	----------	--------------



Creación del ImageStorage destinado al proyecto OpenVino

Creación del Pool de recursos para el proyecto OpenVino

Creación de las máquinas Virtuales

Configuración de las maquinas virtuales y firewall

Magnolia CMS 5.x

<https://documentation.magnolia-cms.com/display/DOCS56/Disk+space>

Best practice

We recommend that you allocate at least 50 GB of disk space for an author instance and 25 GB for a public instance.

Example calculation:

What takes space?	GB
Total website content including assets such as images and videos.	5
Magnolia and Tomcat systems.	0.5
Cached content, assuming cache is 70% full.	3.5
Site is served in two languages. The other language is also cached.	3.5
Content is indexed for search. A compressed index is 20% of the original data size.	1
Logs: access, audit, error	5
Temporary storage for streaming large files	5
Total for a public instance	23.5
Versioning on author instance, assuming 30% of content is versioned 20 times.	30
Total for an author instance	53.5

Adjust the numbers to your needs.

- Is your site smaller?
- Is your database on the same machine as the application server? You can also persist data to a remote database.
- Have you switched off versioning?

There are many options for reducing the space required. However, assume that you need up to 50 GB of space out of the box.

Confluence Server

<https://confluence.atlassian.com/doc/server-hardware-requirements-guide-30736403.html>

Accounts	Spaces	Pages	CPUs	CPU (GHz)	RAM (MB)	Notes
150	30	1,000	1	2.6	1,024	
350	100	15,000	2	2.8	1,536	
5,000	500		4	3	2,048	
10,000	350	16,000	2	3.8	2,048	
10,000	60	3,500	2	3.6	4,096	
21,000	950		2	3.6	4,096	
85,000	100	12,500	4	2.6	4,096	3 machines total: application server, database server, Apache HTTPD + LDAP tunnel server.

JIRA

<https://confluence.atlassian.com/adminjiraserver071/jira-applications-installation-requirements-802592164.html>

For a small number of projects (less or equal to 100) with 1,000 to 5,000 issues in total and about 100-200 users, a recent server (multicore CPU) with 2GB of available RAM and a reasonably fast hard drive (7200 rpm or faster) should cater for your needs.

Magento 2.1.x technology stack requirements

- Operating systems (Linux x86-64): CentOS 7
- CPU: 4 cores x 2 GHz
- Memory requirement: up to 4GB of RAM
- Hard Disk: 30 GB
- Web servers: Apache 2.4 In addition, the apache `mod_rewrite` module must be enabled. `mod_rewrite` enables the server to perform URL rewriting
- Database: MySQL 5.6
- PHP: 7.0.24
- Required PHP extensions:
 - bc-math (Magento Commerce only)
 - curl
 - gd, ImageMagick 6.3.7 (or later) or both
 - intl
 - mbstring
 - mcrypt
 - mhash
 - openssl
 - PDO/MySQL
 - SimpleXML
 - soap
 - xml
 - xsl

- zip
- PHP 7 only: json / iconv

OPENBRAVO

http://wiki.openbravo.com/wiki/System_Requirements

<https://docs.google.com/spreadsheets/d/19gP7CzjsRbrXpHg-1UUorzr3QVpBgMOW8Q93VSDomRs/pub?single=true&gid=4&output=html>

Topology	Single
EC2 instance type (single server)	m1.small
Database	PostgreSQL
Optimal concurrent users	3
Architecture	32-bit (x86)
Bandwidth	2Mbps
Hardware equivalence (single server)	Dual Core Intel Xeon 2GHz, 2 GB RAM, disk 10000 rpm

Copy of Sizing Tool - results - stages 3-7 - Hardware vs Concurrent users

ID	Topology	EC2 instance type (single server)	EC2 instance type (application server)	EC2 instance type (database server)	Database	Optimal concurrent users	Architecture	Bandwidth	Hardware equivalence (single server)	Hardware equivalence (application server)	Hardware equivalence (database server)
1	Single	m1.small			PostgreSQL	3	32-bit (x86)	2Mbps	Dual Core Intel Xeon, 2GHz, 2 GB RAM, disk 10000 rpm		
2	Single	c3.large			PostgreSQL	15	64-bit (x86_64)	4Mbps	Dual Core 2.8 GHz Intel Xeon, 4 GB RAM, disk 10000 rpm		
4	Single	c3.xlarge			PostgreSQL/Oracle	25	64-bit (x86_64)	4Mbps	Quad Core 2.8 GHz Intel Xeon, 8GB RAM, disk 10000 rpm		
6	Single	c3.2xlarge			PostgreSQL/Oracle	65	64-bit (x86_64)	4Mbps	8 - Core 2.8 GHz Intel Xeon, 16GB RAM, disk 10000rpm		
13	Dual		c3.2xlarge	c3.2xlarge	PostgreSQL/Oracle	100	64-bit (x86_64)	10Mbps		8 - Core 2.8 GHz Intel Xeon, 16GB RAM, disk 10000rpm	
14	Single	c3.4xlarge			PostgreSQL/Oracle	200	64-bit (x86_64)				8 - Core 2.8 GHz Intel Xeon, 16GB RAM, disk 10000rpm

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Documentation and communication tool