

OpenNebula

L'informatique élastique 100% Open Source

Daniel DEHENNIN

Pôle de Compétences Logiciels Libres

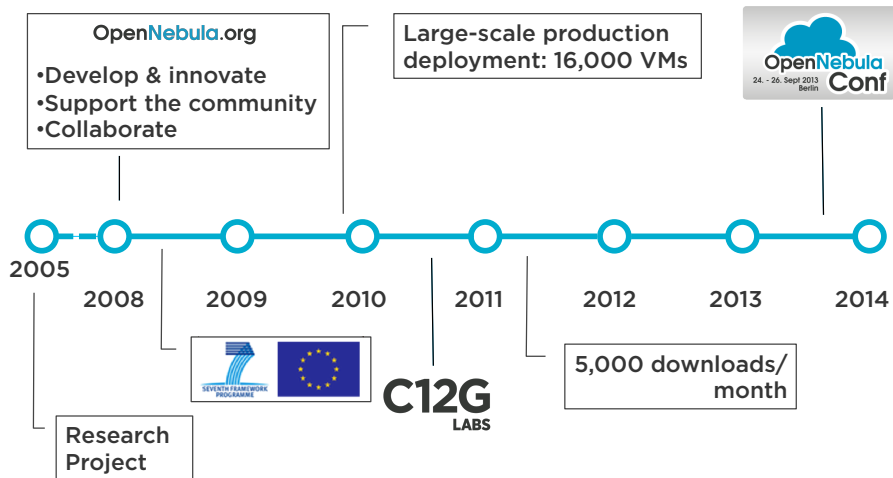
Journée du Libre 2016

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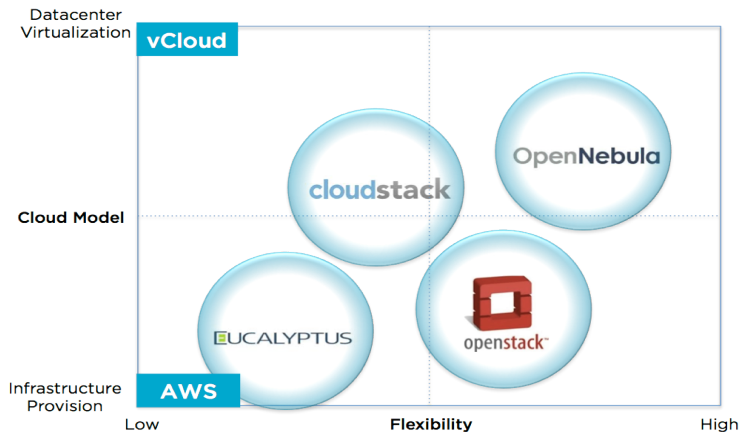
Qu'est-ce que c'est ?

un nuage ou de la fumée ?



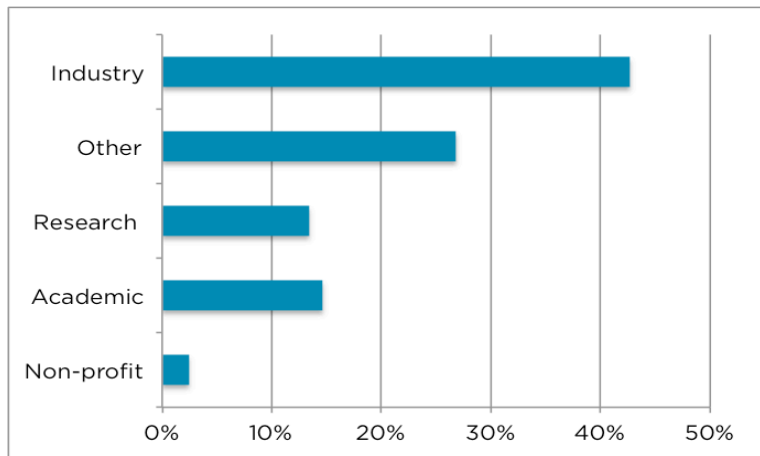
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Positionnement



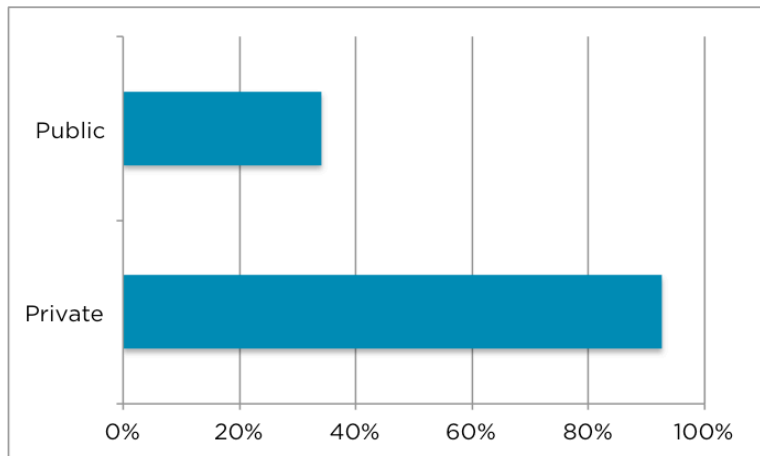
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Qui l'utilise ?



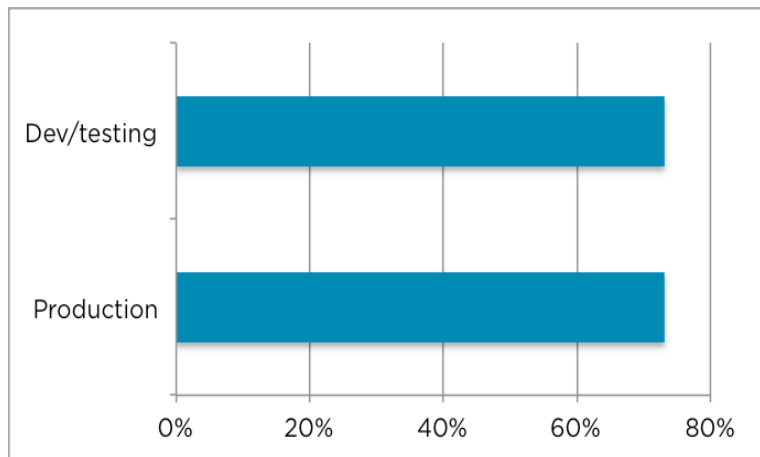
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Pour quoi faire ?



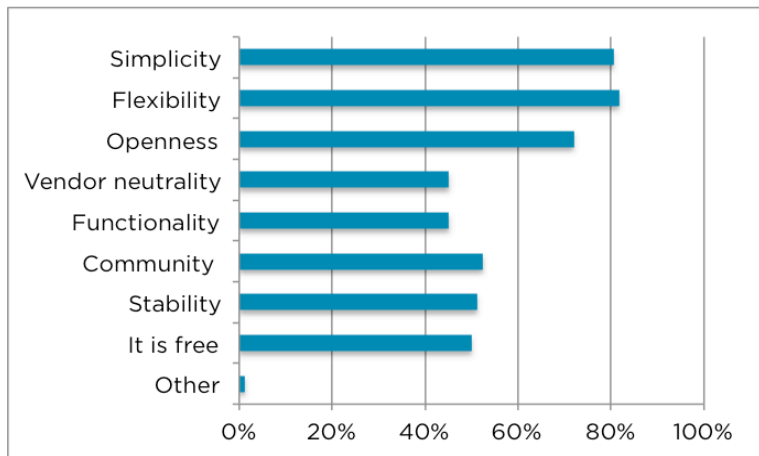
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Est-ce exploitable ?



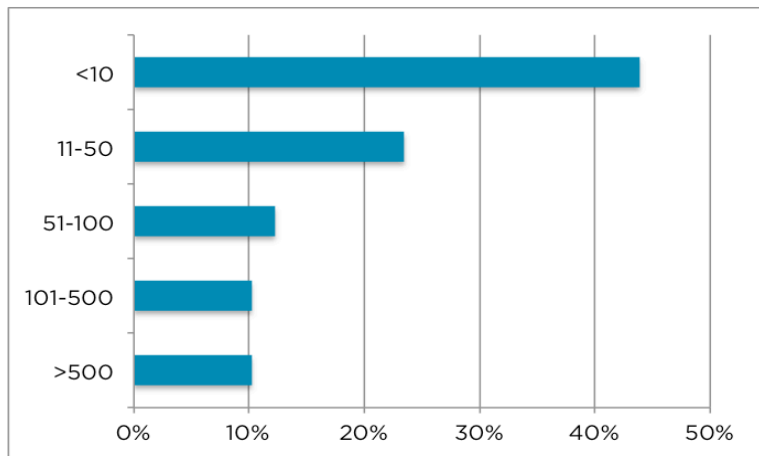
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Atouts



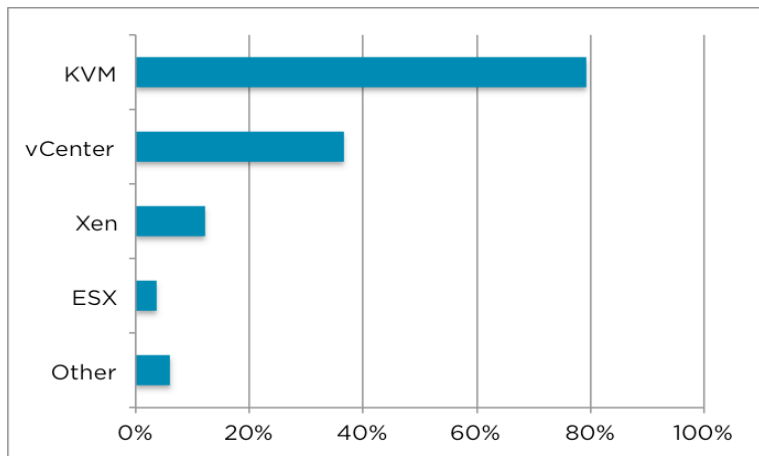
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Taille des infrastructures



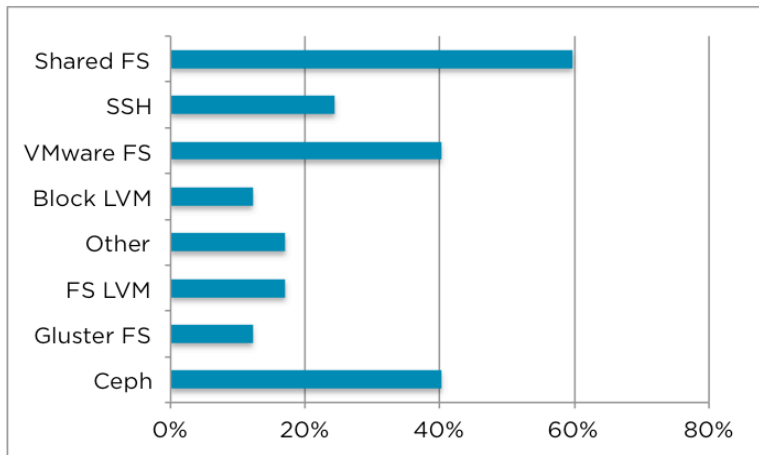
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Hyperviseurs

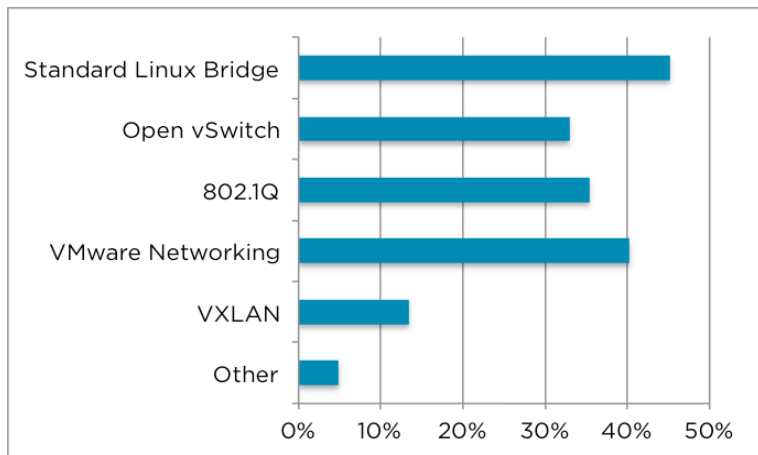


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Stockage

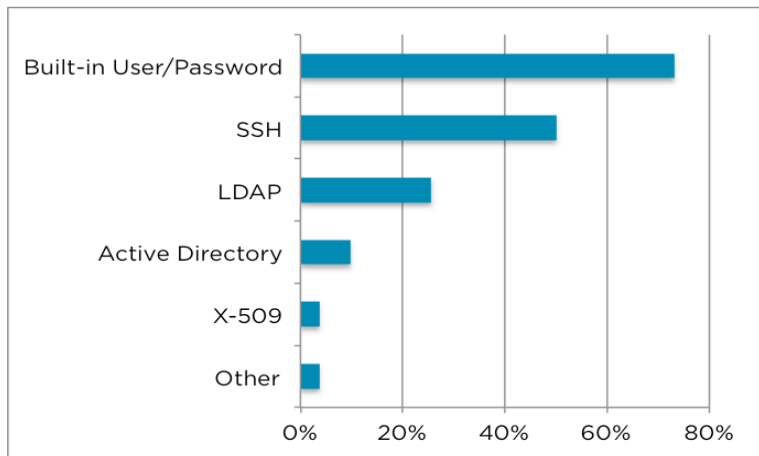


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Authentication



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En résumé

Constat après 3 ans d'utilisation au **Pôle de Compétences Logiciels Libres**

- 100% **Open Source**
- Communauté ouverte et dynamique
- Simple, léger et « hackable »
- Évolutif
- Aucun verrouillage

L'essayer c'est l'adopter !

Demonstrations

Dashboard

System

- Users
- Groups
- VDCs
- ACLs

Virtual Resources

- Virtual Machines
- Templates
- Images
- Files & Kernels

Infrastructure

- Clusters
- Hosts
- Datastores
- Virtual Networks
- Security Groups
- Zones

Marketplace

OneFlow

- Services
- Templates

Settings



Dashboard

VMs

88

79 ACTIVE 0 PENDING 0 FAILED



HOSTS

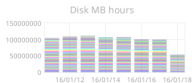
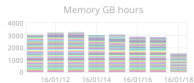
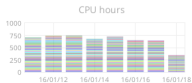
5

3 ON 2 OFF 0 ERROR



USERS

32



Allocated CPU

53 % 2958 / 5580

Allocated Memory

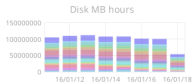
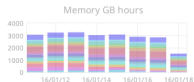
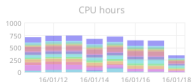
34 % 144.4GB / 424.9GB

Real CPU

9 % 488 / 5580

Real Memory

30 % 126.5GB / 424.9GB





nebula

Yggdrasil

Dashboard

System

Users

Groups

VDCs

ACLs

Virtual Resources

Virtual Machines

Templates

Images

Files & Kernels

Infrastructure

Clusters

Hosts

Datastores

Virtual Networks

Security Groups

Zones

Marketplace

OneFlow

Services

Templates

Settings

OpenNebula Marketplace



Name	Publisher	Hypervisor	Arch	Format
<input type="checkbox"/> Debian 8.2 - KVM	Admin	KVM	x86_64	raw
<input type="checkbox"/> Debian Wheezy Proteomics	IRISA	all	x86_64	raw
<input type="checkbox"/> Debian Wheezy Bio Imaging	IRISA	all	x86_64	raw
<input type="checkbox"/> Debian Wheezy NGS	IRISA	all	x86_64	raw
<input type="checkbox"/> Debian Wheezy Galaxy NGS	IRISA	KVM	x86_64	raw
<input type="checkbox"/> Debian Wheezy XGrid	IRISA	KVM	x86_64	raw
<input type="checkbox"/> Debian 7 - KVM	OpenNebula Systems	KVM	x86_64	raw
<input type="checkbox"/> DCI Bridge Direct Cloud Slave Appliance	MTA SZTAKI LPDS	KVM	x86_64	raw
<input type="checkbox"/> debian-7.1-amd64-kvm	Demo-TIC	KVM	x86_64	raw
<input type="checkbox"/> gUse v3.5.2	MTA SZTAKI LPDS	KVM	x86_64	raw

Showing 1 to 10 of 10 entries (filtered from 40 total entries)

 Previous Next

OpenNebula 4.14.2 by OpenNebula Systems.



Virtual Machines

7

TOTAL



7

RUNNING

0

DEPLOYING

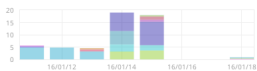
0

OFF

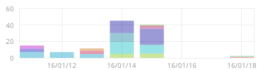
0

ERROR

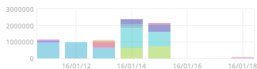
CPU hours



Memory GB hours



Disk MB hours



Quotas

0%

RUNNING VMS
7 / -

0%

CPU
3.8 / -







0%

MEMORY
11.3GB / -



Create Virtual Machine

Select a Template

System	Group	Saved
<input type="text" value="Search"/>		
Debian Wheezy 40G (amd64)	Ubuntu Trusty Tahr EOLE (40...	Ubuntu Trusty Tahr EOLE (40...
 debian	 ubuntu	 ubuntu
Debian Jessie EOLE x86 (40Go)	Debian Jessie EOLE x64 (40Go)	MimUntu-14.1-poc1-install
 debian	 debian	 MimUntu
Previous 1 2 Next 6		



Create Service

Select a Template

etb1 2.5.2a1



Amon	1 VMs
Scribe	1 VMs
Horus	1 VMs
PC_Eleve	1 VMs
PC_Prof	1 VMs
PC_Admin	1 VMs

Previous

1

Next

6



dad ▾









Yggdrasil ▾

VMs

Templates

Services



 etb1 2.5.2a1	
 Amon	1 / 1 VMs
 Scribe	1 / 1 VMs
 Horus	1 / 1 VMs
 PC_Eleve	1 / 1 VMs
 PC_Prof	1 / 1 VMs
 PC_Admin	1 / 1 VMs
 dad	19m ago

Previous

1

Next

6 ▾

OpenNebula 4.14.2 by OpenNebula Systems.

Remerciements

Je remercie la communauté du logiciel libre pour tous ces merveilleux logiciels sans lesquels si peu de choses existeraient.

Cette présentation a été réalisée grâce aux logiciels libres suivants :

- Le système de composition \LaTeX [TeX Live](#)
- L'éditeur de texte [GNU/Emacs](#)
- L'environnement graphique [Awesome](#)
- Le système d'exploitation [Debian GNU/Linux](#)



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