

La virtualisation pour tous

La virtualisation

- Diminuer les coûts
 - Des serveurs physiques
 - Des équipements
 - Consommations électriques
 - Moins de contrat de maintenance
- Améliorer la scalabilité
 - S'affranchir du hardware
 - Ajout et suppression de serveur plus facile
- Améliorer la tolérance de panne
 - Haute disponibilité (Niveau OS et pas seulement applicative)

Vraiment pour tous ?

- Pour les budgets limités
 - Une solution libre et open source
- Pour les néophytes
 - Une solution géré par une interface web
- Pour les experts
 - Basé sur une distribution Debian
- Pour les petites architectures
 - Avec un serveur unique
- Pour les architectures complexes
 - Possibilité de mettre en cluster plusieurs serveurs

Qu'est-ce que Proxmox ?

- Linux Debian 5 Lenny
- Support complet de KVM
- Support OpenVZ
- Gestion par interface Web
- Patch :
 - Système de fichiers pour cluster (OCFS2)
 - Gestion iSCSI, AoE, SCST
 - Réplication de stockage (DRBD)
 - Solution de backup avec snapshot
 - Pilotes supplémentaires

Open VZ

Pour

- Les templates
- Fonctionne sur tous les processeurs
- Performance inégalé (perte inférieur à 3%)
- Ext3 natif
- Mémoire et disque redimensionnable (même online)

Contre

- Linux uniquement
- Chargement de modules moins flexibles



Pour

- Compatible tout OS
- Matériel émulé
- Facilité d'ajout de périphériques

Contre

- Processeurs spécifiques
- Perte de performance
- Système d'image disque
- Modification de configuration en offline uniquement

VM Manager

- Virtual Machines
- Appliance Templates
- ISO Images

Configuration

- System
- Storage
- Backup

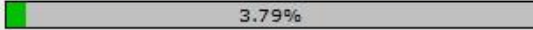
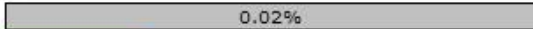
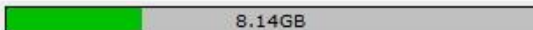
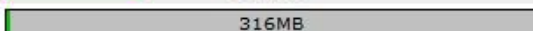
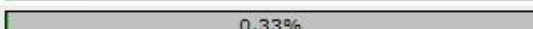
Administration

- Server
- Logs
- Cluster

Proxmox Virtual Environment

Welcome to the Proxmox Virtual Environment!

For more information please visit our homepage at www.proxmox.com

Local System Status ('sunny')		Online
Uptime	12:01:16 up 143 days 02:11, load average: 0.00, 0.03, 0.05	
CPU(s)	16 x Intel(R) Xeon(R) CPU X5560 @ 2.80GHz	
CPU Utilization		3.79%
IO Delays		0.02%
Physical Memory (31.35GB/8.14GB)		8.14GB
Swap Space (31.00GB/316MB)		316MB
HD Space root (374.04GB/1.18GB)		0.33%
Version (package/version/build)	pve-manager/1.8/5948	
Kernel Version	Linux 2.6.32-4-pve #1 SMP Mon May 9 12:59:57 CEST 2011	

VM Manager

- Virtual Machines
- Appliance Templates
- ISO Images

Configuration

- System
- Storage
- Backup

Administration

- Server
- Logs
- Cluster

Virtual Machines


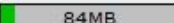






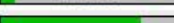
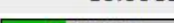
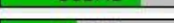

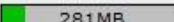
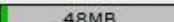



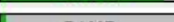
[List](#) [Create](#) [Migrate](#)

Running Maintenance Tasks

Nothing to view

Cluster Node 'sunny'

Online

VMID	Status	Name	Uptime	Disk	Memory	CPU
➤ 101	running	rad4private	13d	 507MB	 84MB	0.00%
➤ 102	running	samba	143d	 293.71GB	 32MB	0.00%
➤ 103	running	zimbra	143d	 40.05GB	 4.56GB	0.00%
➤ 104	running	www	83d	 6.30GB	 173MB	0.00%
➤ 105	running	winwin	143d	10.00GB	 813MB	0.00%
➤ 106	running	backup-server-salleinfo	143d	 1.81GB	 445MB	0.00%
➤ 107	stopped	winxp	-	10.00GB		
➤ 108	running	firewall	68d	10.00GB	 422MB	0.00%
➤ 109	running	rad4wifi	143d	 281MB	 48MB	0.00%
➤ 110	running	Aurion	143d	100.00GB	 824MB	0.00%
➤ 111	running	updates	91d	500.00GB	 1.85GB	32.00%
➤ 112	running	dhcpublic.ensc-lille.fr	24d	 411MB	 31MB	0.00%

VM Manager

- Virtual Machines
- Appliance Templates
- ISO Images

Configuration

- System
- Storage
- Backup

Administration

- Server
- Logs
- Cluster

Storage

Storage List

- Add ISCSI Target
- Add NFS Share
- Add LVM Group
- Add Directory

Type	Enabled	Active	Shared	Used (GB)	Capacity (GB)	
Directory	Yes	Yes	No	511.92	1912.53	<div style="width: 26.77%; background-color: green; height: 10px;"></div> 26.77%

VM Manager

- Virtual Machines
- Appliance Templates
- ISO Images

Configuration

- System
- Storage
- Backup

Administration

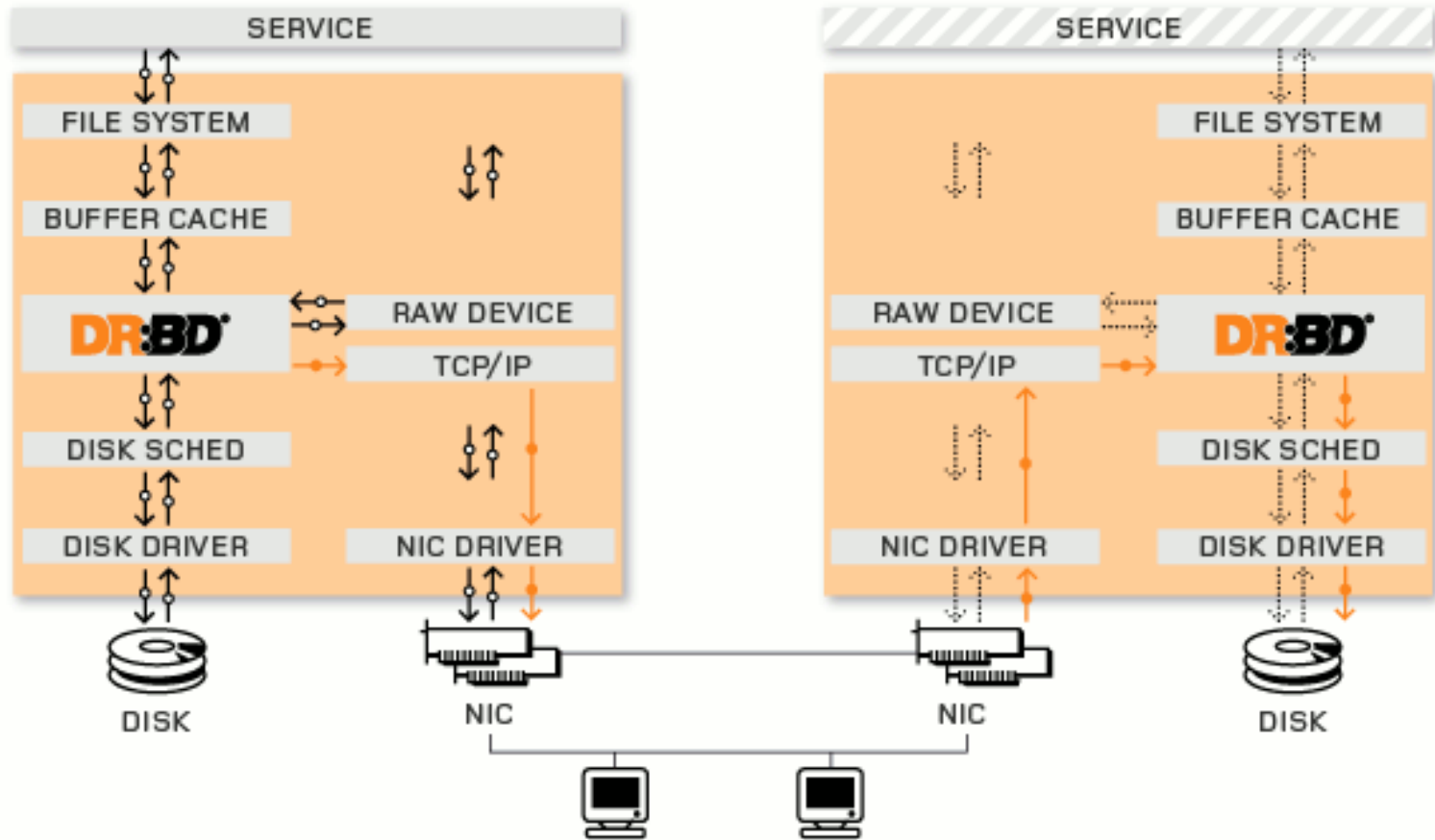
- Server
- Logs
- Cluster

System Configuration

Network DNS Time Admin Options

Interface configuration

Interface	Active	Ports/Slaves	Autostart	IP Address	Subnet Mask	Gateway
vmbr0	yes	eth0	<input checked="" type="checkbox"/>			
vmbr1	yes	eth1	<input checked="" type="checkbox"/>			
vmbr10	yes	eth0.10	<input checked="" type="checkbox"/>			
vmbr11	yes	eth0.11	<input checked="" type="checkbox"/>			
vmbr2	yes	eth0.2	<input checked="" type="checkbox"/>			
vmbr3	yes	eth0.3	<input checked="" type="checkbox"/>			
vmbr4	yes	eth0.4	<input checked="" type="checkbox"/>			
vmbr5	yes	eth0.5	<input checked="" type="checkbox"/>			
vmbr6	yes	eth0.6	<input checked="" type="checkbox"/>			
vmbr7	yes	eth0.7	<input checked="" type="checkbox"/>			
vmbr8	yes	eth0.8	<input checked="" type="checkbox"/>			
vmbr9	yes	eth0.9	<input checked="" type="checkbox"/>			
vmbr98	yes	eth0.98	<input checked="" type="checkbox"/>			
vmbr99	yes	eth0.99	<input checked="" type="checkbox"/>			



Pour finir

Néophyte

KVM

Utilisateur
Linux

KVM

OpenVZ

Expert
Linux

KVM

OpenVZ

DRBD