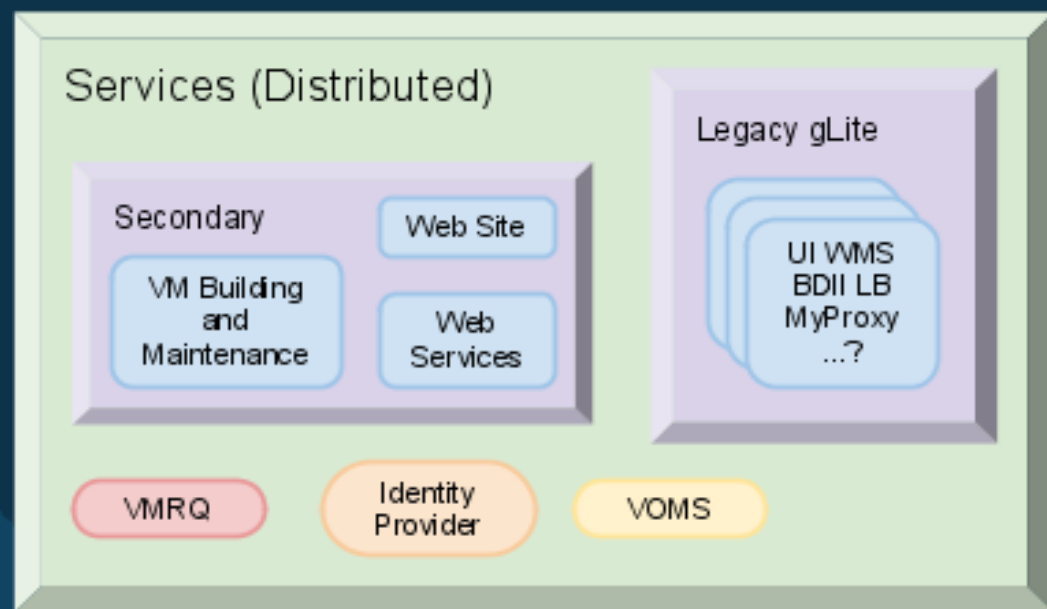
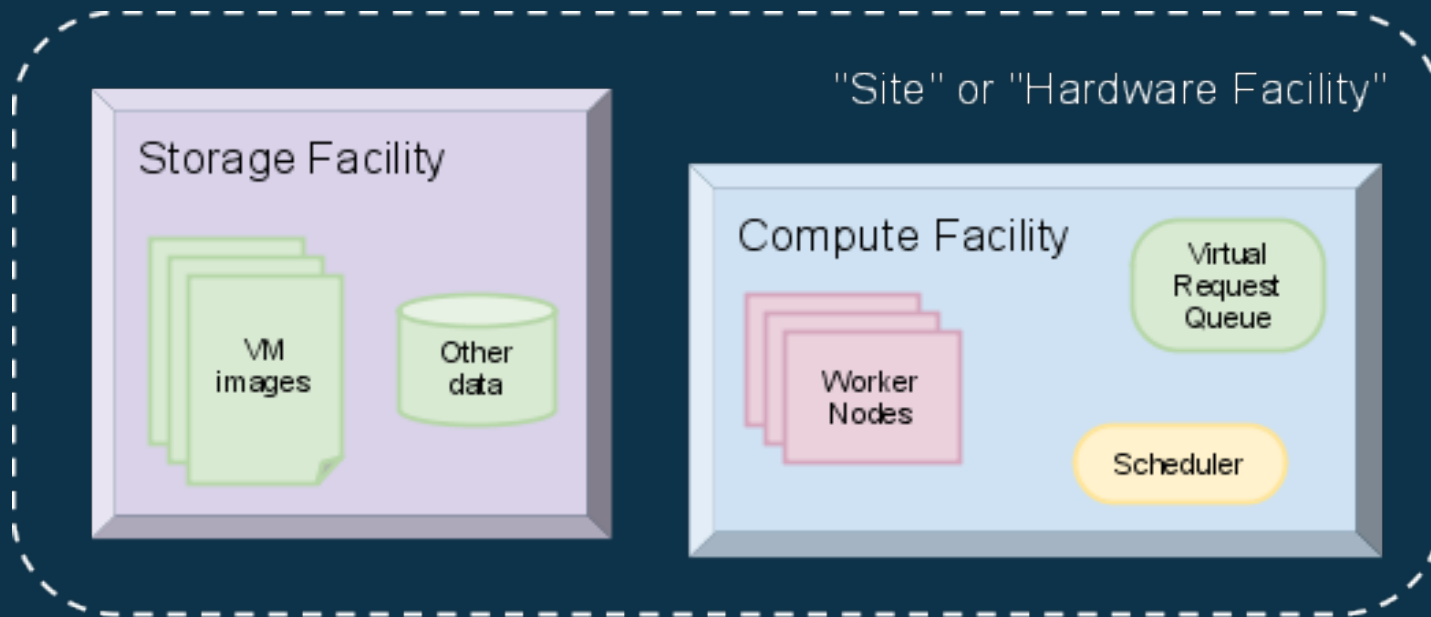


# Virtual Machines on BiG Grid hardware

# Virtual Machines op BiG Grid hardware

- Toekomstvisie (lange termijn)
- Toepassingen
- Eerste stappen (dit project)
- Use Cases (echte)



DutchCloud

# Toepassingen

## Eigen distro / software

- Ubuntu, OpenSuSE
- JVM/jar hell
- glibc, libstdc++, libxml, ...
- perl/python/jython/ruby/jruby

## Multicore computing

- BLAST, IPRScan, MAQ, ...

## Legacy / Exotic hardware

- Emulation through QEMU
- 680x0, RISC, ...?

## Legacy / Exotic OSs and OS versions

- SLx.x (CERN!)
- Windows for Workgroups v3.11
- Atari OSx, MacOS 7, OS/2 Warp, ...



Eerste stappen

# Web interface

## Use cases:

- Create new VM from template
- Rename / Delete VM
- Run VM
  - Single instance
  - Multiple (Grid)
  - Multiple (MPI, cluster)
- Abort running/queued VMs

## My Virtual Machine Images

---

### Add new image from template

Hide shared images:

New name:

Template:

---

### Current images

Image name	Shared
<input checked="" type="checkbox"/> Debian with SeqAlign stuff	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> WinXP with MatLab MPI	<input checked="" type="checkbox"/>

---

### Run virtual machines

Image:

Mode:

Number of machines:

---

### Virtual Machine Queue

???

# Web interface

## Use cases:

- Create new VM from template
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## My Virtual Machine Images

### Add new image from template

Hide shared images:

New name:

Template:    
Linux CentOS 5.3 minimal   
Linux CentOS gLite WN   
**Linux Debian minimal**   
Mac OS-X minimal   
Windows XP minimal

### Current

Image name	Shared
<input checked="" type="checkbox"/> Debian with SeqAlign stuff	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> WinXP with MatLab MPI	<input checked="" type="checkbox"/>

### Run virtual machines

Image:

Mode:

Number of machines:

### Virtual Machine Queue

???

# Web interface

## Use cases:

- Create new VM from template
- Rename / Delete VM
- Run VM
  - Single instance
  - Multiple (Grid)
  - Multiple (MPI, cluster)
- Abort running/queued VMs

## My Virtual Machine Images

### Add new image from template

Hide shared images:

New name:

Template: Linux CentOS 5.3 minimal ▾

Add

### Current images

Image name	Shared
<input checked="" type="checkbox"/> Debian with SeqAlign stuff	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> WinXP with MatLab MPI	<input checked="" type="checkbox"/>

### Run virtual machines

Image: Debian with SeqAlign stuff ▾

Mode: Multi ▾

Number of machines:

- Single
- Multi
- Multi (MPI)

### Virtual Machine Queue

???



# Web interface

## Questions:

- Max. walltime?
- Min. CPU/IO/RAM usage?
- Log in credentials?
- Log in on “multi-sessions”?
- ...?

## My Virtual Machine Images

### Add new image from template

Hide shared images:

New name:

Template:

### Current images

Image name	Shared
<input checked="" type="checkbox"/> Debian with SeqAlign stuff	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> WinXP with MatLab MPI	<input checked="" type="checkbox"/>

### Run virtual machines

Image:

Mode:

Number of machines:

### Virtual Machine Queue

???