

Ganeti Web Interfaces

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Web interfaces

- The Ganeti RAPI allows other systems to interface into Ganeti
- There are two standalone web front-ends available
 - Ganeti Web Manager (OSU OSL)
 - Ganeti Manager (GRNet)
- Both are Python/Django applications
- Neither is particularly well supported :-)

Ganeti Web Manager

- Allows setting of most VM parameters
- VM management can be delegated to users
- Fine-grained access control
- Console access via HTML5/Javascript in browser (noVNC, websockets)

Ganeti Web Manager

en ▼ | You are logged in as nsrc, Logout

- Overview
- Clusters
- Virtual Machines
- Templates
- Create VM
- Error Log

Search

Admin

- Orphan VMs
- Import VMs
- Missing VMs
- Import Nodes
- Missing Nodes
- Users
- Groups

s0 : host1.ws.nsrc.org

Overview Users Log Console

Owner	gnt1
Created on	12/05/2014
Last modified	15/05/2014
Status	Stopped
Primary node	s2.ws.nsrc.org
Secondary node	
Operating System	Default (<i>debootstrap</i>)
Autostart	✓
VNC	s2.ws.nsrc.org::11009

- Start
- Reinstall
- Edit
- Change Owner
- Rename
- Create Template
- Delete

Hardware

VCPUs	2
Memory (Min/Max)	-1 MiB / 4.00 GiB
NIC type	paravirtual

Disks

Disk Template	plain
Disk type	paravirtual


Ganeti Web Manager downsides

- Maintains a mysql database of instances separate from Ganeti
 - Can get out of sync
 - Changes which are made via the CLI may not be visible in the web interface
 - Press "Refresh" button to resynchronize
- VMs created outside GWM have to be imported; "orphan VMs" (no owner) have to be "adopted"
- Errors in VM creation cause **GUI to fail**

Ganeti Manager

- As used by ViMa (vima.grnet.gr)
- Provides ticket-like interface where users fill in a form to request a VM
 - manual approval or rejection
- Suited to university-type environment?
- Easier to install than GWM?
- More polished interface?
- Can report lots of VM statistics

Ganeti Manager



grnet
virtual private servers

My Profile FAQ Language: English ▾

Home **+ Create Instance**

Home / Create Instance

Apply for a new instance

Instance information

Hostname

A fully qualified domain name, e.g. host.domain.com

Memory

Virtual CPUs

Disk size (GB)

Specify a size from 2 to 100 GB

- Home
- Statistics
- My Profile
- Latest News
- FAQ

Ganeti Manager downsides

- Can't do CD-ROM (ISO) installs
 - uses grnet's own version of ganeti-instance-image
 - git dev branch can use snf-image
- Still need to use CLI to change VM settings like memory and vcpus
- Default console access uses Java in browser
 - websockets available but not well documented
- Errors in VM creation are **not reported in GUI**
 - fixed in dev branch

Which to choose?

- If you want an interface for your *administrators* choose Ganeti Web Manager
 - but they should still have some CLI clue
- If you want an interface for your *VM users* choose Ganeti Manager
 - almost like a private cloud "lite"