

Invirt

Virtualization by
students @ MIT

It is...

- open source software developed by MIT Student Information Processing Board (SIPB)
- powers the XVM service funded by IS&T as a free service to the MIT community
- <http://xvm.mit.edu>

Functions

- VM creation and management via web
- 3 minute auto-installer of Debian and Ubuntu
- Access to VGA console via web
- Serial console access via ssh
- Runs wide range of Linux and also Windows

Other features

- Based on Xen
- Load-balanced VMs across multiple servers
- VMs are network-isolated and prevented from binding to other VMs IP addresses
- VM migration between services; minimal impact

Other stuff

- SIPB actively working with HCS (Harvard Computing Society) for deployment there.
- There is some production use of this VM service by departments and services.
- <http://xvm.mit.edu>

Demo...

👁️ <http://xvm.mit.edu> (doh!)

screen shots

The screenshot shows a web browser window titled "VM List — XVM" with the URL "https://xvm.mit.edu/". The browser's address bar and search bar are visible. Below the browser window, the web page content is displayed. It includes a navigation menu with links like Home, Most Visited, Smart Bookmarks, and various utility links. The main content area features a "List Help" link, a welcome message "Welcome, gettes.", and a section titled "VM List — XVM". Under this section, there is a "What is XVM?" link and a "refresh" button. A table lists two virtual machines: "gettes1" (Fedora FC9 minimal install) and "gettes2" (ubuntu). Below the table is a "Create a new VM" form with fields for Name, Description, Memory, Disk, HVM/ParaVM type, Autoinstall, Boot CD, and Owner. A "Create it!" button is at the bottom of the form. The browser's status bar at the bottom shows "Done" and the URL "xvm.mit.edu".

VM List — XVM

https://xvm.mit.edu/

Home Most Visited Smart Bookmarks i2 Stuff Auto Virtnet Google Weather Philly Music

List Help Welcome, **gettes**.

VM List — XVM

What is XVM?

refresh

	Name	Memory	Owner(?)	Administrator(?)	IP	Uptime	VNC
	gettes1	256M	gettes		18.181.2.100		
	Fedora FC9 minimal install						
	gettes2	256M	gettes		18.181.2.75		
	ubuntu						

Create a new VM

Name .xvm.mit.edu

Description

Memory MiB (512 max)

Disk GiB (36.0 max)

HVM/ParaVM(?) HVM ParaVM

Autoinstall(?) (experimental; 2-3 minutes, and you have a machine with empty root password.)

Boot CD

Owner

Windows notes: (?)






Questions? Contact xvm@mit.edu.

Done xvm.mit.edu

Console to gettes2 — XVM

See [tips](#) about framebuffer and other issues.

[Disconnect](#) [Options](#) [Clipboard](#) [Send Ctrl-Alt-Del](#) [Refresh](#) Alt Control

Applications Places System     Thu Jan 8, 10:18 AM Michael Gettes 

Update Manager [-] [x]

 **You can install 156 updates.**
Software updates correct errors, eliminate security vulnerabilities and provide new features.

Important security updates

- avahi-autoipd**
Avahi IPv4LL network address configuration daemon (Size: 47 KB)
- avahi-daemon**
Avahi mDNS/DNS-SD daemon (Size: 61 KB)
- avahi-utils**
Avahi browsing, publishing and discovery utilities (Size: 26 KB)
- compiz-fusion-plugins-main**
Collection of plugins from OpenCompositing for Compiz (Size: 1.0)
- firefox**
meta package for the popular mozilla web browser (Size: 67 KB)

Download size: 162.3 MB [Check](#) [Install Updates](#)

▸ Description of update

[Close](#)

