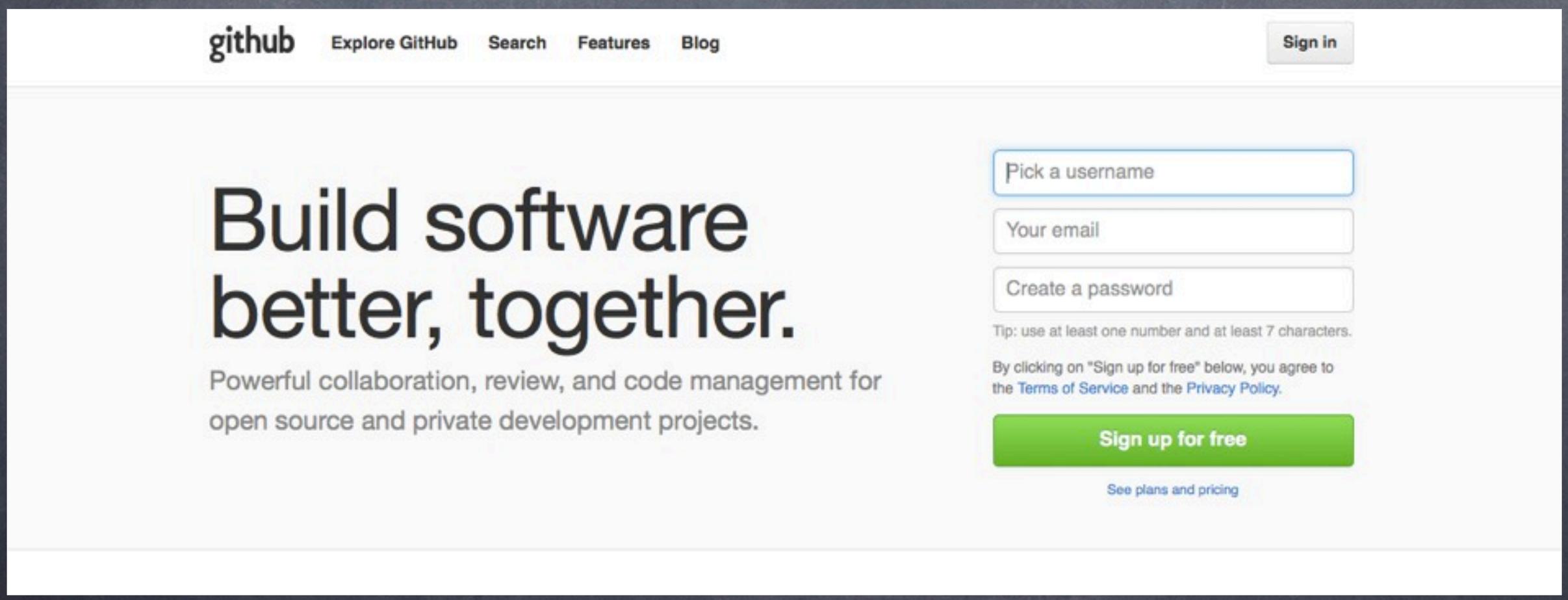
GitHub、KVM and KVM AutoTest

Presented by Tails.Chi

GitHub


github
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Build software better, together.
Powerful collaboration, review, and code management for open source and private development projects.
Pick a username
Your email
Create a password
Tip: use at least one number and at least 7 characters.
By clicking on "Sign up for free" below, you agree to the Terms of Service and the Privacy Policy.
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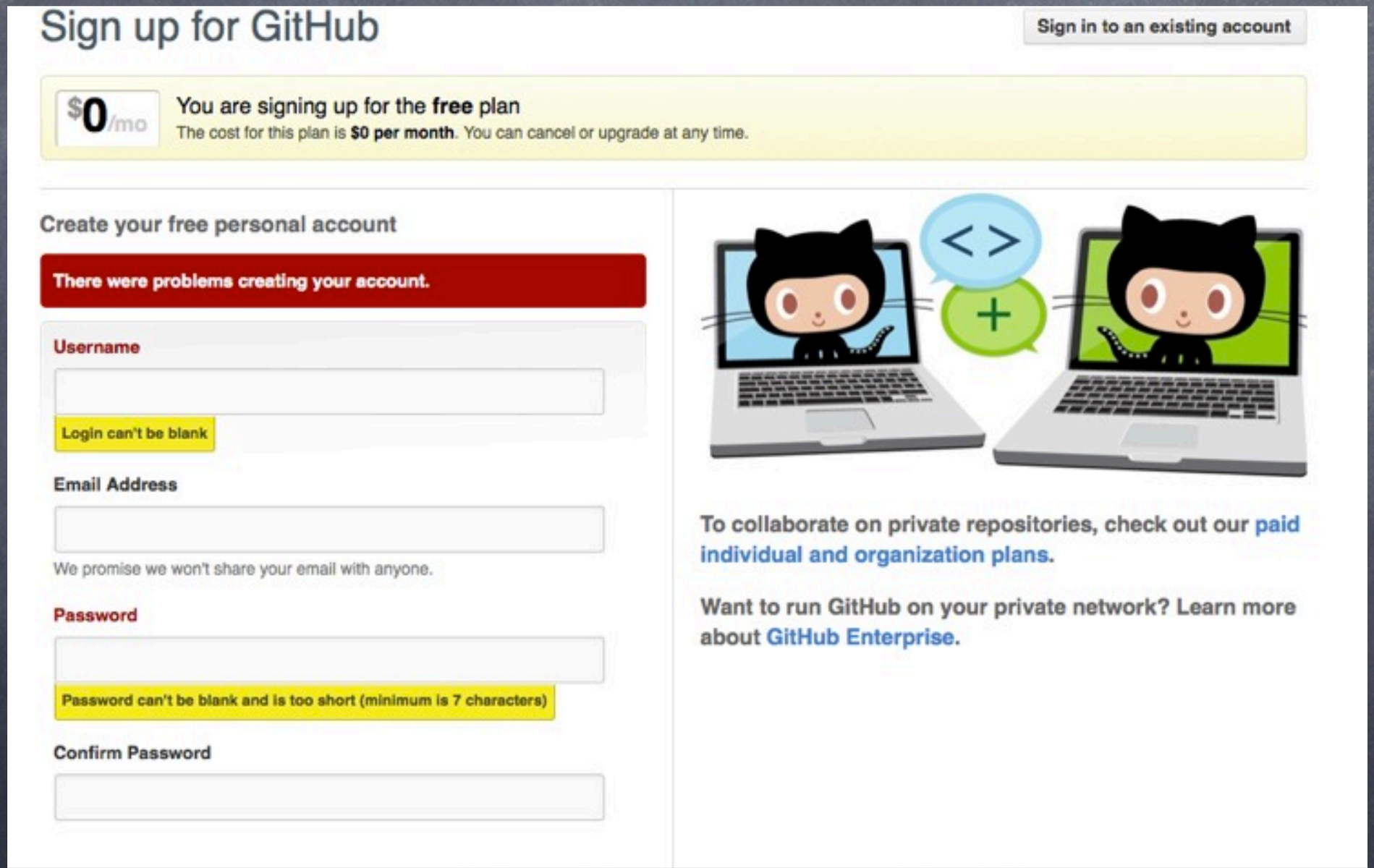
See plans and pricing

GitHub Cont.


Sign up for GitHub
Sign in to an existing account
$0/mo
You are signing up for the free plan
The cost for this plan is $0 per month. You can cancel or upgrade at any time.
Create your free personal account
There were problems creating your account.
Username
Login can't be blank
Email Address
We promise we won't share your email with anyone.
Password
Password can't be blank and is too short (minimum is 7 characters)
Confirm Password
To collaborate on private repositories, check out our paid individual and organization plans.
Want to run GitHub on your private network? Learn more about GitHub Enterprise.

GitHub Cont.

GitHub
About us
Blog
Contact & support
GitHub Enterprise
Site status

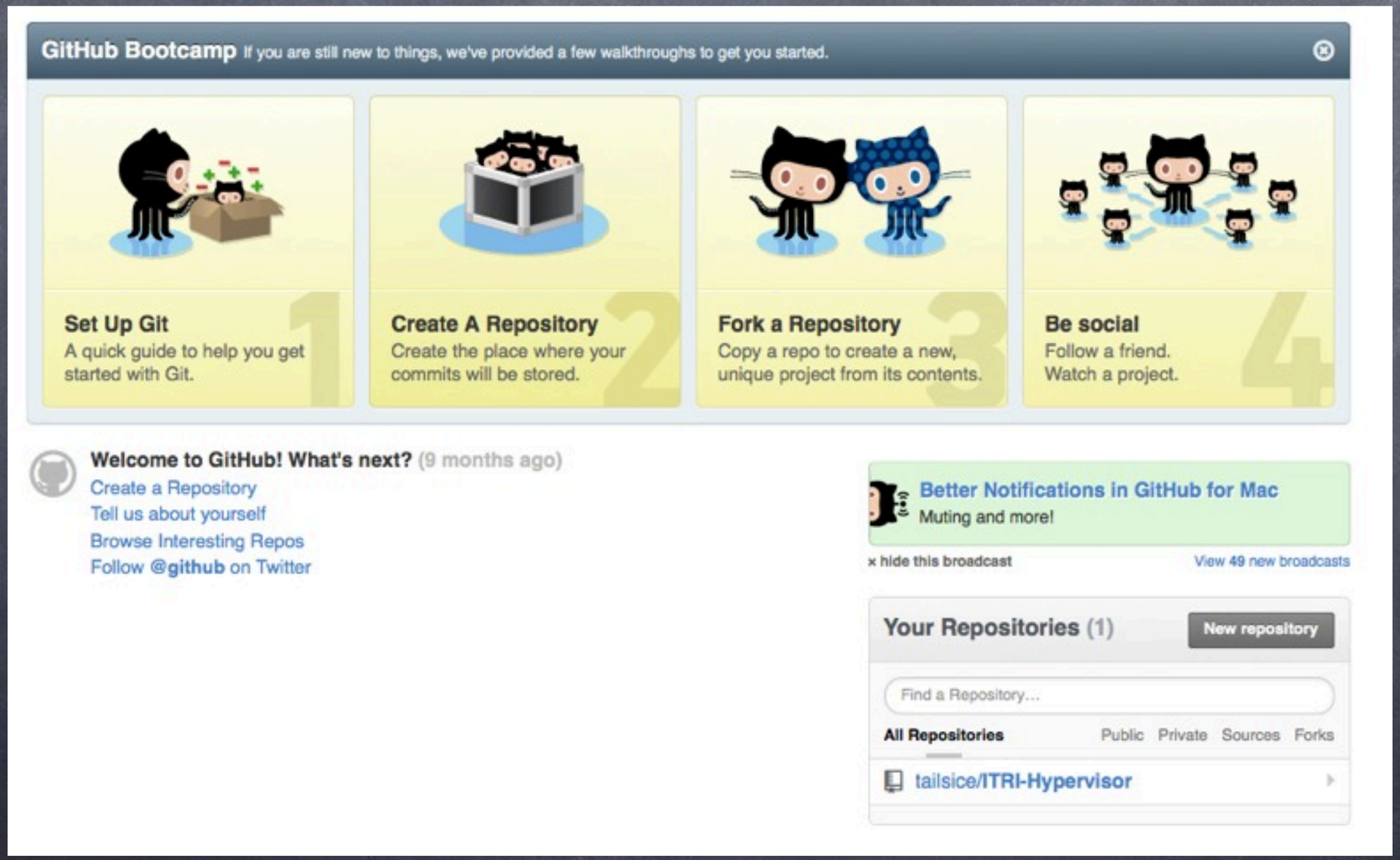
Applications
GitHub for Mac
GitHub for Windows
GitHub for Eclipse
GitHub mobile apps

Services
Gauges: Web analytics
Speaker Deck: Presentations
Gist: Code snippets
Job board

Documentation
GitHub Help
Developer API
GitHub Flavored Markdown
GitHub Pages

More
Training
Students & teachers
The Shop
Plans & pricing
The Octodex

GitHub Cont.


GitHub Bootcamp If you are still new to things, we've provided a few walkthroughs to get you started.
Set Up Git
A quick guide to help you get started with Git.
1
Create A Repository
Create the place where your commits will be stored.
2
Fork a Repository
Copy a repo to create a new, unique project from its contents.
3
Be social
Follow a friend.
Watch a project.
4
Welcome to GitHub! What's next? (9 months ago)
Create a Repository
Tell us about yourself
Browse Interesting Repos
Follow @github on Twitter
Better Notifications in GitHub for Mac
Muting and more!
× hide this broadcast
View 49 new broadcasts
Your Repositories (1)
New repository
Find a Repository...
All Repositories
Public
Private
Sources
Forks
tailsice/ITRI-Hypervisor

GitHub Cont.

PUBLIC tailsice / ITRI-Hypervisor

Pull Request | Unwatch | Unstar 1 | Fork 0

Code | Network | Pull Requests 0 | Issues 0 | Wiki | Graphs | Settings

Edit For ITRI Hypervisor — Read more

Clone in Mac | ZIP | HTTP | SSH | Git Read-Only | https://github.com/tailsice/ITRI-Hypervisor.git | Read+Write access

branch: master | Files | Commits | Branches 1 | Tags

ITRI-Hypervisor /

5 commits

Del

EwingChi authored 4 days ago — latest commit 585e396672

Document	4 days ago	Del [EwingChi]
SourceCode	4 days ago	Test.java [EwingChi]
README	4 days ago	Add File [EwingChi]

README

Hello GitHub World

GitHub Cont.

PUBLIC tailsice / ITRI-Hypervisor

Options

- Collaborators
- Service Hooks
- Deploy Keys

Settings

Repository Name

ITRI-Hypervisor | Rename

Default Branch master

Features

☑ **Wikis**

GitHub Wikis are the simplest way to let others contribute content. Any GitHub user can create and edit pages to use for documentation, examples, support or anything you wish.

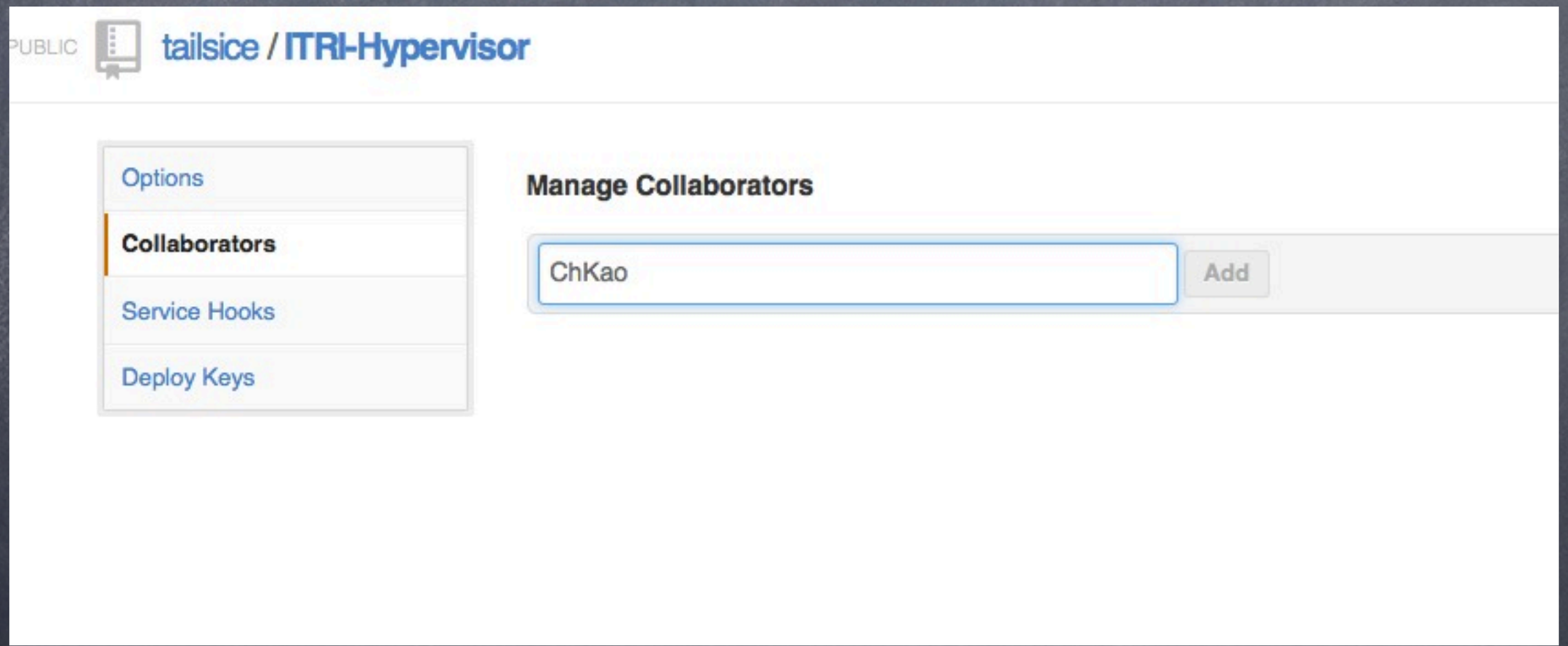
☐ **Restrict edits to Collaborators only**

Public Wikis will still be readable by everyone.

☑ **Issues**

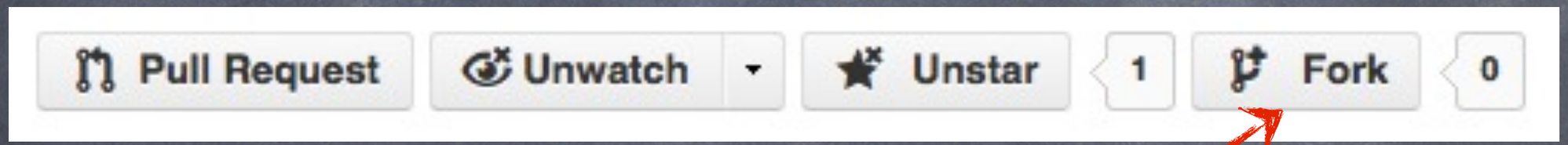
GitHub Issues adds lightweight issue tracking tightly integrated with your repository. Add issues to milestones, label issues, and close & reference issues from commit messages.

GitHub Cont.

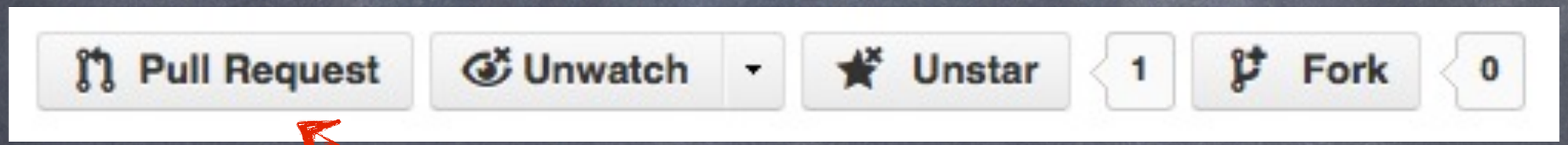

PUBLIC
tailsice / ITRI-Hypervisor
Options
Collaborators
Service Hooks
Deploy Keys
Manage Collaborators
ChKao
Add

GitHub Cont.

GitHub Cont.

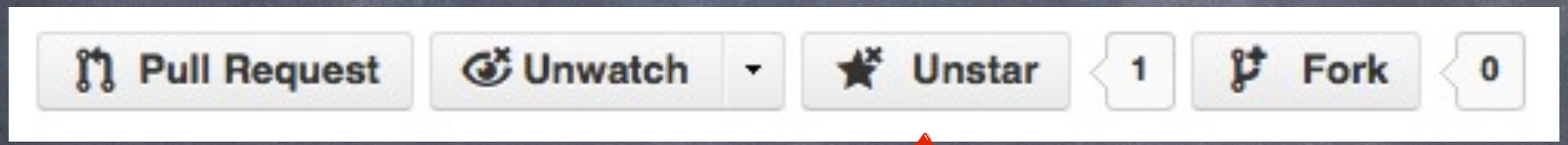


GitHub Cont.

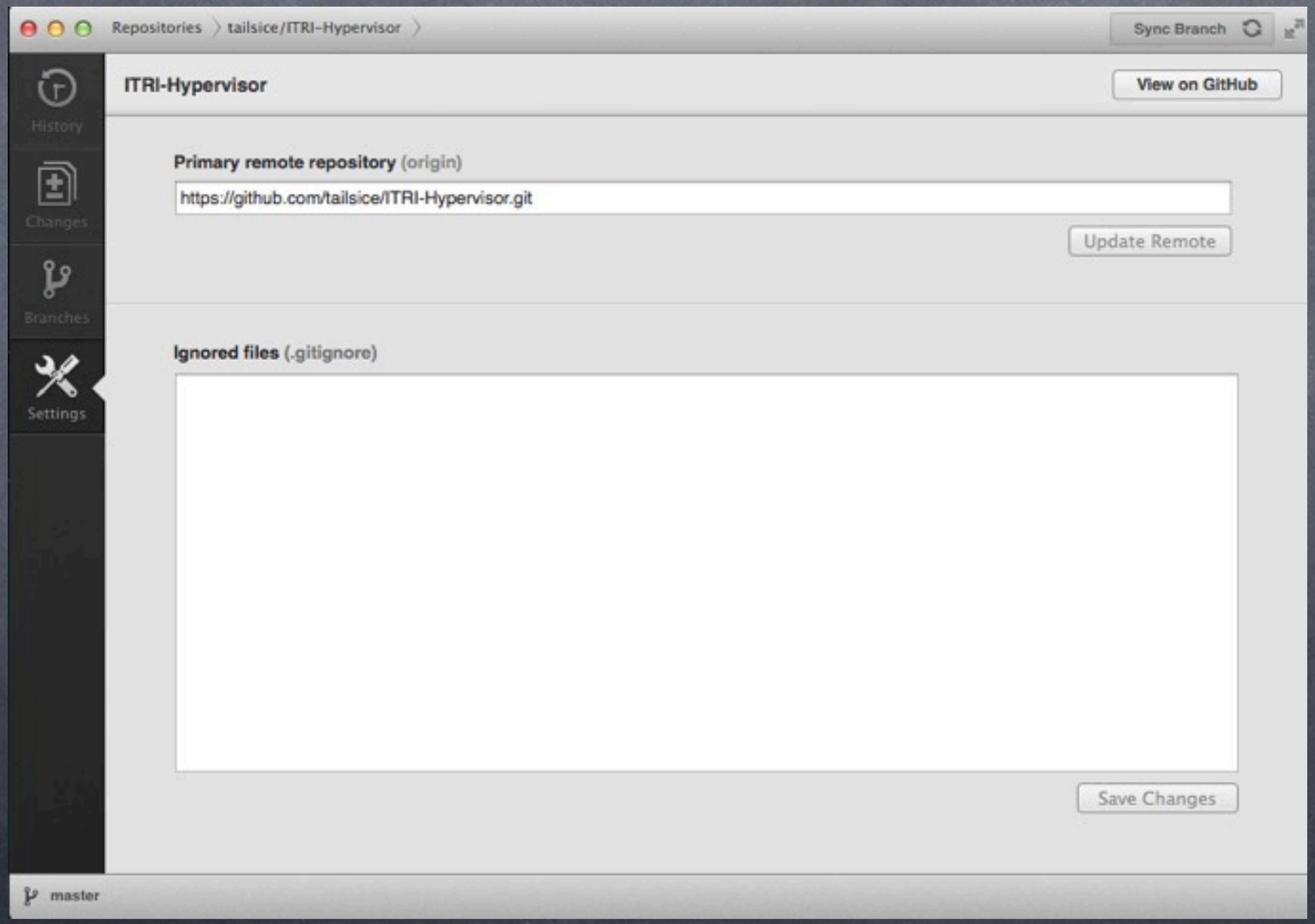


GitHub Cont.

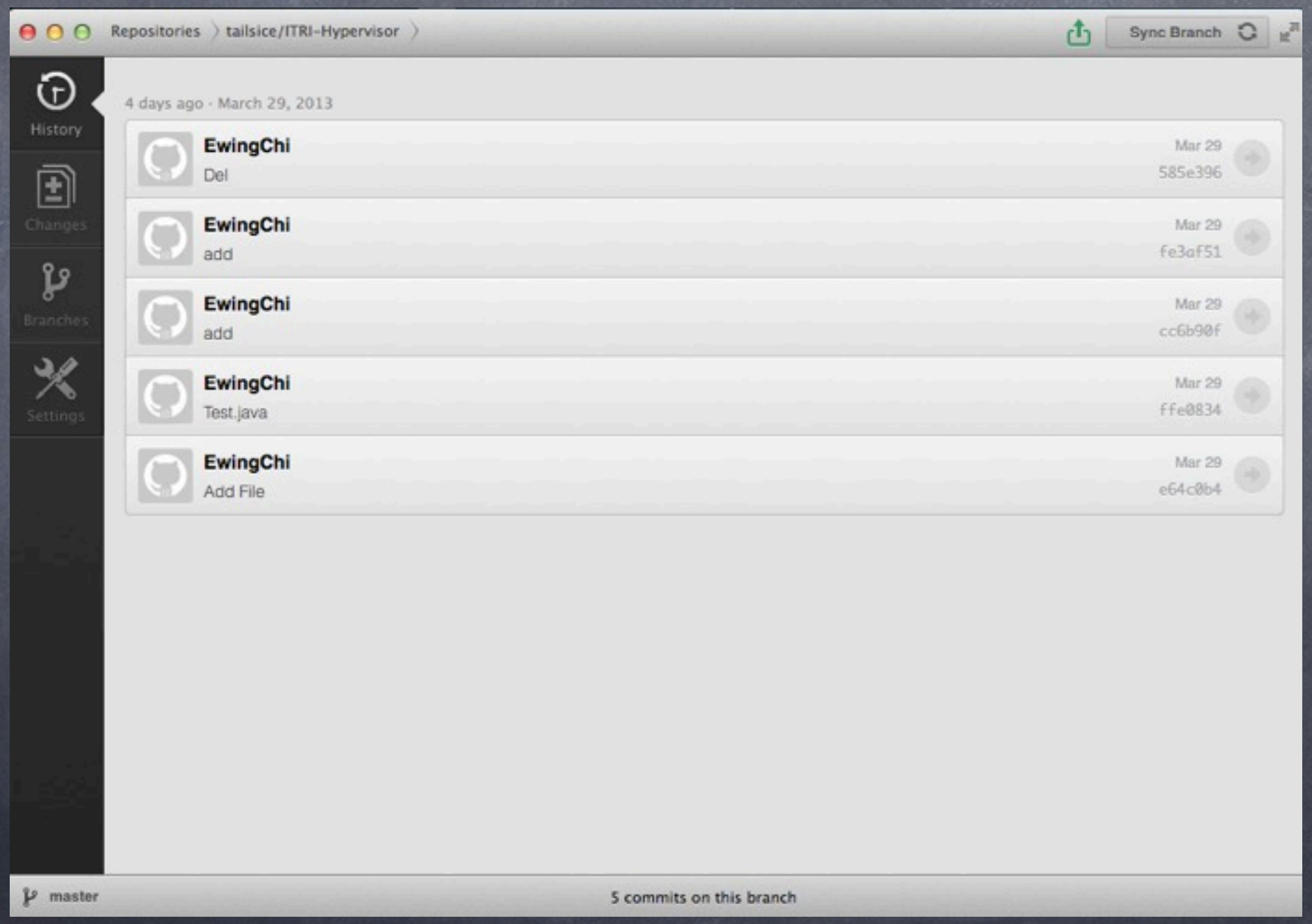
GitHub Cont.



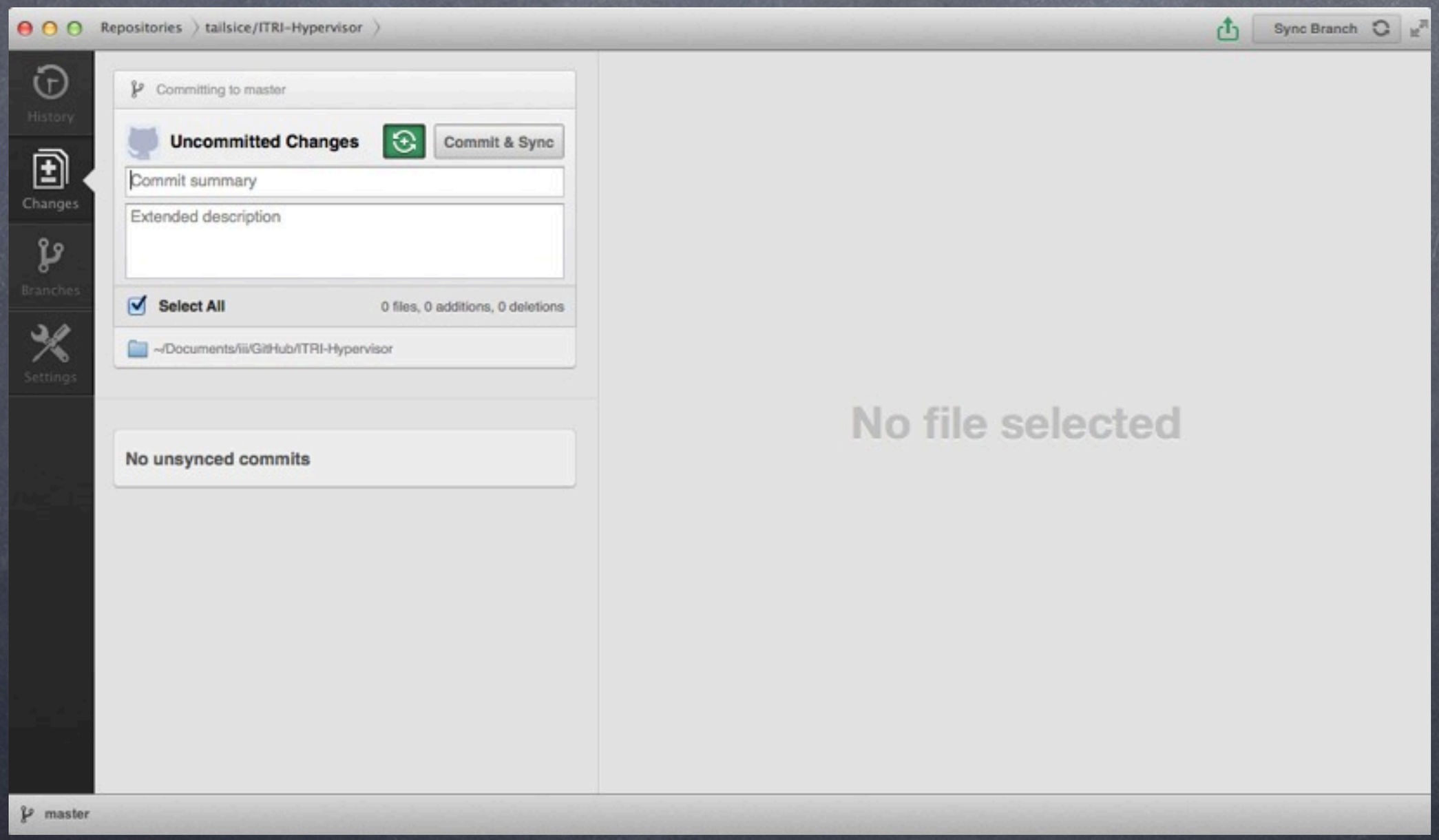
GitHub Cont.


Repositories
tailsice/ITRI-Hypervisor
Sync Branch
ITRI-Hypervisor
View on GitHub
History
Changes
Branches
Settings
Primary remote repository (origin)
https://github.com/tailsice/ITRI-Hypervisor.git
Update Remote
Ignored files (.gitignore)
Save Changes
master

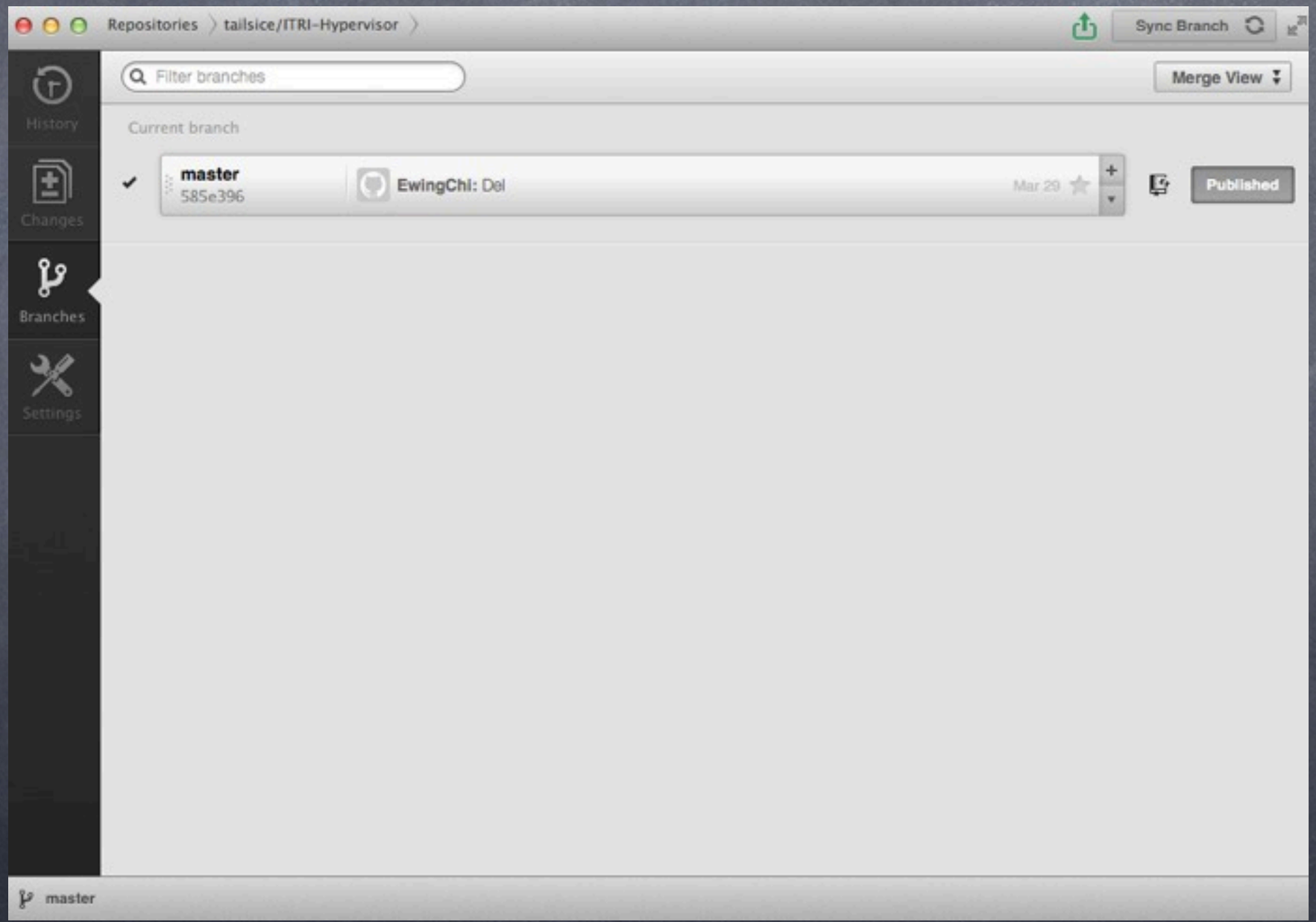
GitHub Cont.


Repositories
tailsice/ITRI-Hypervisor
Sync Branch
History
Changes
Branches
Settings
4 days ago · March 29, 2013
EwingChi
Del
Mar 29
585e396
EwingChi
add
Mar 29
fe3af51
EwingChi
add
Mar 29
cc6b90f
EwingChi
Test.java
Mar 29
ffe0834
EwingChi
Add File
Mar 29
e64c0b4
master
5 commits on this branch

GitHub Cont.


Repositories
tailsice/ITRI-Hypervisor
Sync Branch
History
Changes
Branches
Settings
Committing to master
Uncommitted Changes
Commit & Sync
Commit summary
Extended description
Select All
0 files, 0 additions, 0 deletions
~/Documents/iii/GitHub/ITRI-Hypervisor
No unsynced commits
No file selected
master

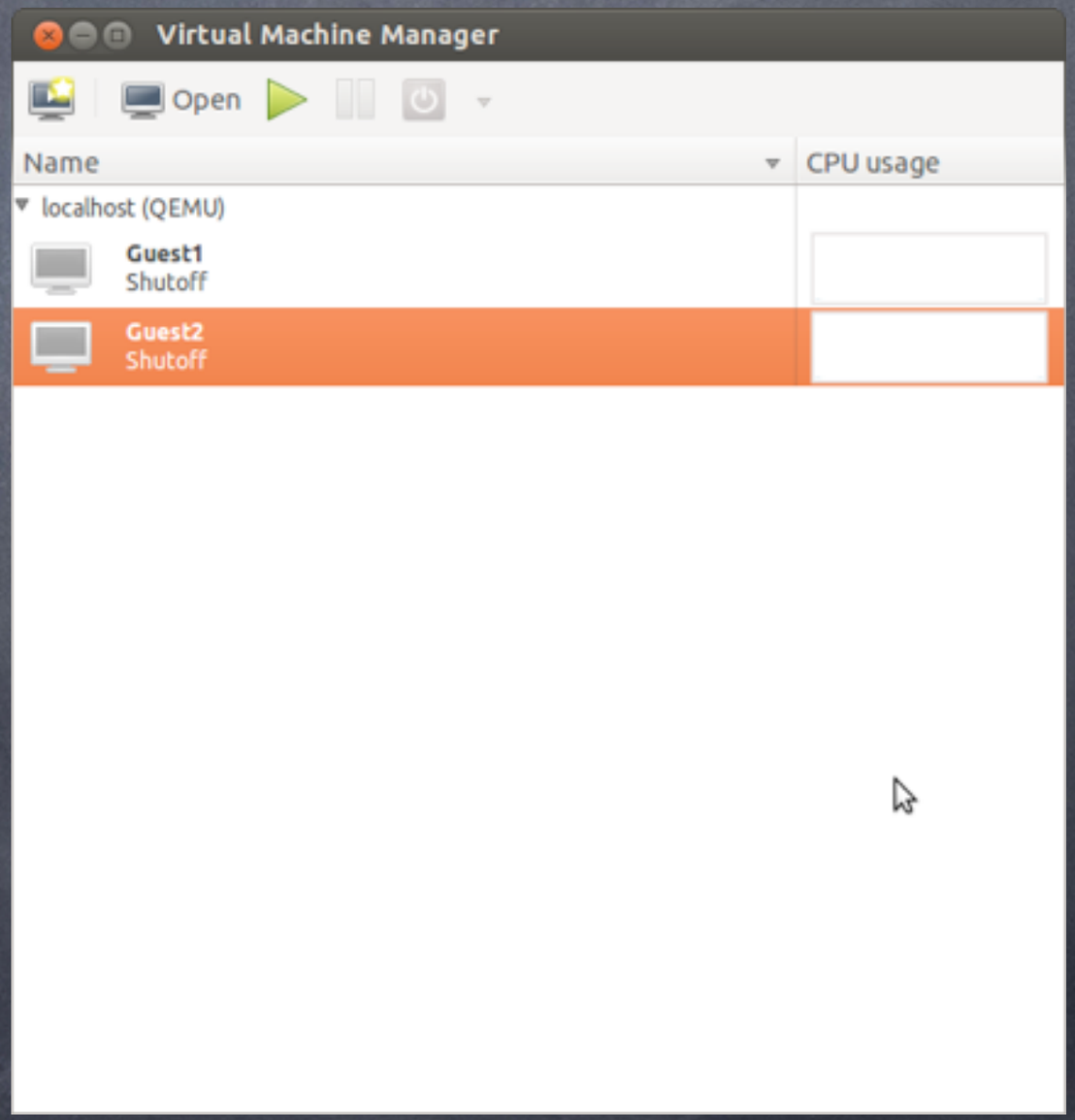
GitHub Cont.


Repositories
tailsice/ITRI-Hypervisor
Sync Branch
Filter branches
Merge View
History
Current branch
Changes
master
585e396
EwingChi: Del
Mar 29
Published
Branches
Settings
master

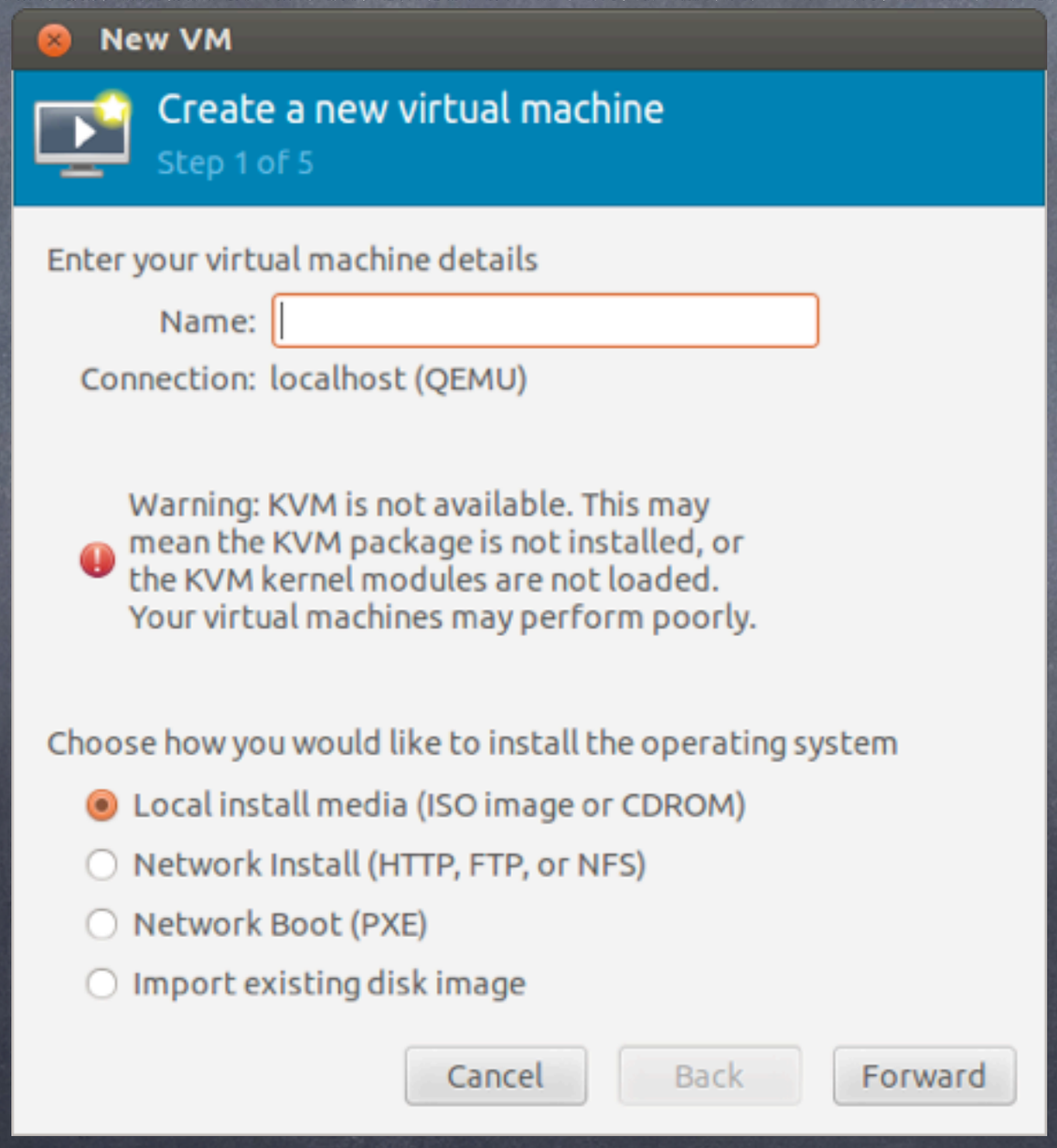
KVM

#ssh -X cssi:qwer@140.92.24.51

#sudo virt-manager



KVM Cont.


New VM
Create a new virtual machine
Step 1 of 5
Enter your virtual machine details
Name:
Connection: localhost (QEMU)
Warning: KVM is not available. This may mean the KVM package is not installed, or the KVM kernel modules are not loaded. Your virtual machines may perform poorly.
Choose how you would like to install the operating system
Local install media (ISO image or CDROM)
Network Install (HTTP, FTP, or NFS)
Network Boot (PXE)
Import existing disk image
Cancel
Back
Forward

KVM Cont.

Guest1 Virtual Machine

```
Begin: Loading essential drivers ... done.
Begin: Running /scripts/init-premount ... done.
Begin: Mounting root file system ... Begin: Running /scripts/local-top ... done.
Begin: Running /scripts/local-premount ... done.
[   19.073380] EXT4-fs (dm-0): mounted filesystem with ordered data mode. Opts: (null)
Begin: Running /scripts/local-bottom ... done.
done.
Begin: Running /scripts/init-bottom ... done.
fsck from util-linux 2.20.1
fsck from util-linux 2.20.1
/dev/sda1: clean, 230/124496 files, 45823/248832 blocks
/dev/mapper/Guest01-root: clean, 54803/441504 files, 312296/1764352 blocks
[   24.781750] EXT4-fs (dm-0): re-mounted. Opts: errors=remount-ro
The disk drive for /dev/mapper/Guest01-swap_1 is not ready yet or not present.
Continue to wait, or Press S to skip mounting or M for manual recovery
 * Starting load fallback graphics devices                                  [ OK ]
 * Stopping load fallback graphics devices                                  [ OK ]
 * Starting Uncomplicated firewall                                          [ OK ]
 * Starting configure network device security                               [ OK ]
 * Starting configure network device security                               [ OK ]
 * Starting Mount network filesystems                                       [ OK ]
 * Starting Failsafe Boot Delay                                             [ OK ]
 * Stopping Mount network filesystems                                       [ OK ]
 * Starting Bridge socket events into upstart                               [ OK ]
 * Starting configure network device                                        [ OK ]
```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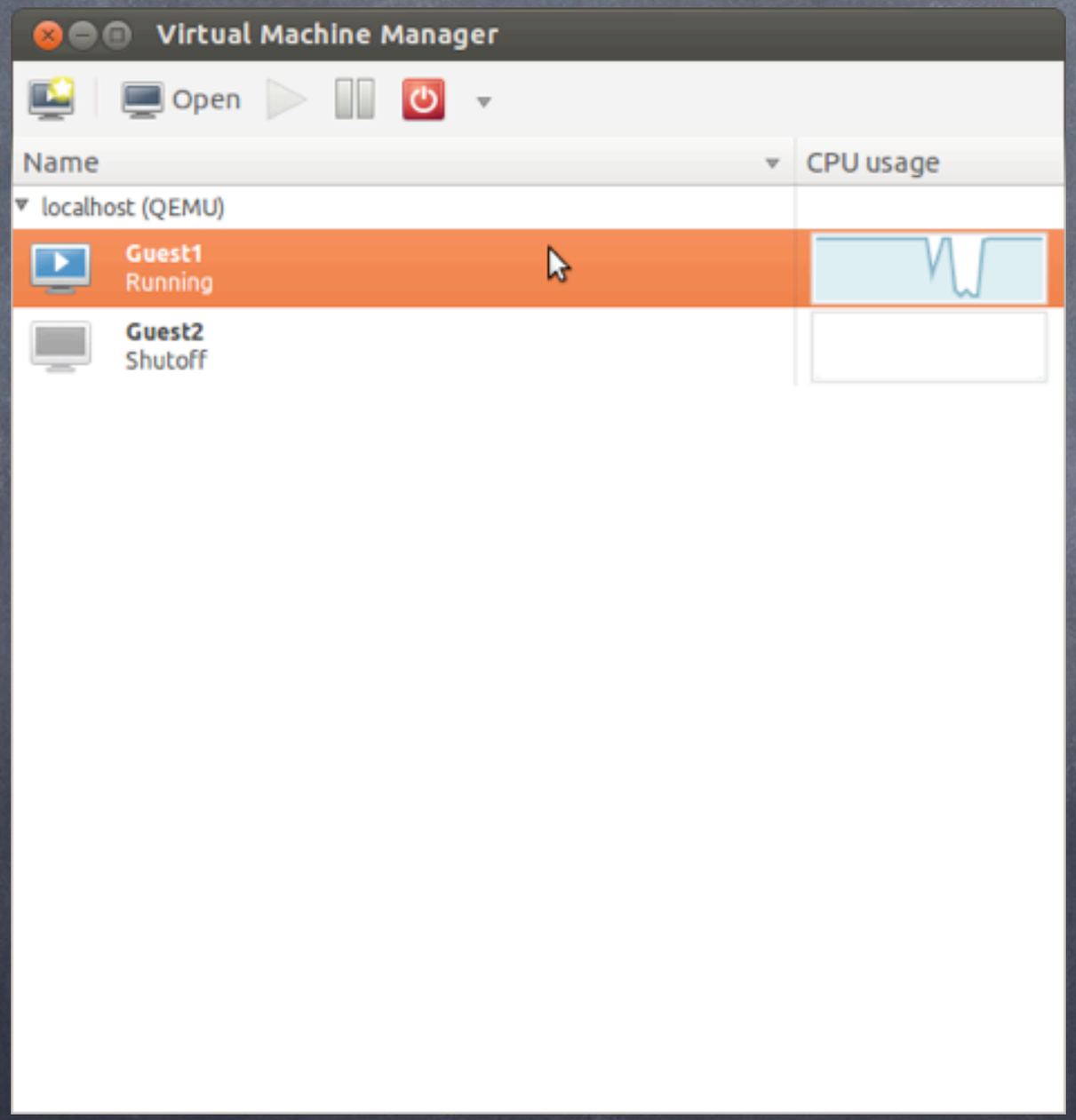
KVM Cont.


Virtual Machine Manager
Open
Name
CPU usage
localhost (QEMU)
Guest1
Running
Guest2
Shutoff

KVM AutoTest

#install path/run -t qemu

```
root@cssi-System-Product-Name: /srv/test/virt-test-master
root@cssi-System-Product-Name:/srv/test/virt-test-master# ./run -t qemu
SETUP: PASS (1.20 s)
DATA DIR: /var/lib/virt_test
DEBUG LOG: /srv/test/virt-test-master/logs/run-2013-04-02-11.33.16/debug.log
TESTS: 13
(1/13) migrate.default.tcp: FAIL (0.60 s)
(2/13) migrate.default.unix: FAIL (0.44 s)
(3/13) migrate.default.exec: FAIL (0.43 s)
(4/13) migrate.default.fd: FAIL (0.44 s)
(5/13) migrate.default.mig_cancel: FAIL (0.45 s)
(6/13) migrate.with_set_speed.tcp: FAIL (0.45 s)
(7/13) migrate.with_set_speed.unix: FAIL (0.44 s)
(8/13) migrate.with_set_speed.exec: FAIL (0.44 s)
(9/13) migrate.with_set_speed.fd: FAIL (0.43 s)
(10/13) migrate.with_reboot.tcp: FAIL (0.43 s)
(11/13) migrate.with_reboot.unix: FAIL (0.44 s)
(12/13) migrate.with_reboot.exec: FAIL (0.46 s)
(13/13) migrate.with_reboot.fd: FAIL (0.44 s)
TOTAL TIME: 5.94 s
TESTS PASSED: 0
TESTS FAILED: 13
SUCCESS RATE: 0.00 %
```

KVM AutoTest Cont.

#install path/run -t libvirt

root@cssi-System-Product-Name: /srv/test/virt-test-master

root@cssi-System-Product-Name: /srv/test/vir... | root@cssi-System-Product-Name: /srv/test/vir...

```
root@cssi-System-Product-Name:/srv/test/virt-test-master# ./run -t libvirt
SETUP: PASS (1.30 s)
DATA DIR: /var/lib/virt_test
DEBUG LOG: /srv/test/virt-test-master/logs/run-2013-04-02-11.34.31/debug.log
TESTS: 28
(1/28) unattended_install.import.import: FAIL (33.92 s)
(2/28) virsh_domname.vm_state.vm_running.with_valid_option.domid: PASS (1.12 s)
(3/28) virsh_domname.vm_state.vm_running.with_valid_option.uuid: PASS (0.54 s)
(4/28) virsh_domname.vm_state.vm_running.with_invalid_option.none: PASS (0.59 s)
(5/28) virsh_domname.vm_state.vm_running.with_invalid_option.hex_domid: PASS (0.
60 s)
(6/28) virsh_domname.vm_state.vm_running.with_invalid_option.invalid_domid: PASS
 (0.94 s)
(7/28) virsh_domname.vm_state.vm_running.with_invalid_option.invalid_uuid: PASS
(0.58 s)
(8/28) virsh_domname.vm_state.vm_running.with_invalid_option.addition_invalid_pa
ram: PASS (0.64 s)
(9/28) virsh_domname.vm_state.vm_running.with_invalid_option.vm_name: PASS (0.59
 s)
(10/28) virsh_domname.vm_state.vm_paused.with_valid_option.domid: PASS (0.63 s)
(11/28) virsh_domname.vm_state.vm_paused.with_valid_option.uuid: PASS (0.64 s)
(12/28) virsh_domname.vm_state.vm_paused.with_invalid_option.none: PASS (0.64 s)
(13/28) virsh_domname.vm_state.vm_paused.with_invalid_option.hex_domid: PASS (0.
64 s)
```

KVM AutoTest Cont.

#install path/run -t qemu --list-guests

```
root@cssi-System-Product-Name: /srv/test/virt-test-master
root@cssi-System-Product-Name: /srv/test/vir...   root@cssi-System-Product-Name: /srv/test/vir...
16 Win2008.i386.sp2 (missing win2008-sp2-32.qcow2)
17 Win2008.x86_64.sp1 (missing win2008-sp1-64.qcow2)
18 Win2008.x86_64.sp2 (missing win2008-sp2-64.qcow2)
19 Win2008.x86_64.r2 (missing win2008-r2-64.qcow2)
20 OpenSUSE.11.0.i386 (missing openSUSE-11.0-32.qcow2)
21 OpenSUSE.11.0.x86_64 (missing openSUSE-11.0-64.qcow2)
22 OpenSUSE.11.1.i386 (missing openSUSE-11.1-32.qcow2)
23 OpenSUSE.11.1.x86_64 (missing openSUSE-11.1-64.qcow2)
24 OpenSUSE.11.2.i386 (missing openSUSE-11.2-32.qcow2)
25 OpenSUSE.11.2.x86_64 (missing openSUSE-11.2-64.qcow2)
26 OpenSUSE.11.3.i386 (missing openSUSE-11.3-32.qcow2)
27 OpenSUSE.11.3.x86_64 (missing openSUSE-11.3-64.qcow2)
28 OpenSUSE.11.4.i386 (missing openSUSE-11.4-32.qcow2)
29 OpenSUSE.11.4.x86_64 (missing openSUSE-11.4-64.qcow2)
30 OpenSUSE.12.1.i386 (missing openSUSE-12.1-32.qcow2)
31 OpenSUSE.12.1.x86_64 (missing openSUSE-12.1-64.qcow2)
32 Ubuntu.11.04-server.x86_64 (missing ubuntu-11.04-server-64.qcow2)
33 Ubuntu.11.10-server.x86_64 (missing ubuntu-11.10-server-64.qcow2)
34 Ubuntu.12.04-server.x86_64
35 Ubuntu.12.10-server.x86_64 (missing ubuntu-12.10-server-64.qcow2)
36 Ubuntu.8.04.i386 (missing ubuntu-8.04-32.qcow2)
37 Ubuntu.8.10-server.i386 (missing ubuntu-8.10-server-32.qcow2)
38 Fedora.10.i386 (missing f10-32.qcow2)
:
```

KVM AutoTest Cont.

#install path/run -t qemu -g Ubuntu.12.04-server.x86_64 --list-tests

```
root@cssi-System-Product-Name: /srv/test/virt-test-master
root@cssi-System-Product-Name: /srv/test/vir...   root@cssi-System-Product-Name: /srv/test/vir...
Assignments override values previously set in the config file

1 unattended_install.cdrom.extra_cdrom_ks
2 unattended_install.cdrom.in_cdrom_ks
3 unattended_install.cdrom.http_ks
4 unattended_install.cdrom.floppy_ks
5 unattended_install.url.extra_cdrom_ks
6 unattended_install.url.in_cdrom_ks
7 unattended_install.url.http_ks
8 unattended_install.url.floppy_ks
9 unattended_install.nfs.extra_cdrom_ks
10 unattended_install.nfs.in_cdrom_ks
11 unattended_install.nfs.http_ks
12 unattended_install.nfs.floppy_ks
13 unattended_install.remote_ks.extra_cdrom_ks
14 unattended_install.remote_ks.in_cdrom_ks
15 unattended_install.remote_ks.http_ks
16 unattended_install.remote_ks.floppy_ks
17 unattended_install.pxe.extra_cdrom_ks
18 unattended_install.pxe.in_cdrom_ks
19 unattended_install.pxe.http_ks
20 unattended_install.pxe.floppy_ks
21 unattended_install.kernel_initrd.extra_cdrom_ks
:
```

KVM AutoTest Cont.

#install path/run -t qemu -g Ubuntu.12.04-server.x86_64 --tests balloon_check

```
root@cssi-System-Product-Name: /srv/test/virt-test-master
root@cssi-System-Product-Name: /srv/test/vir...   root@cssi-System-Product-Name: /srv/test/vir...
Assignments override values previously set in the config file

1 unattended_install.cdrom.extra_cdrom_ks
2 unattended_install.cdrom.in_cdrom_ks
3 unattended_install.cdrom.http_ks
4 unattended_install.cdrom.floppy_ks
5 unattended_install.url.extra_cdrom_ks
6 unattended_install.url.in_cdrom_ks
7 unattended_install.url.http_ks
8 unattended_install.url.floppy_ks
9 unattended_install.nfs.extra_cdrom_ks
10 unattended_install.nfs.in_cdrom_ks
11 unattended_install.nfs.http_ks
12 unattended_install.nfs.floppy_ks
13 unattended_install.remote_ks.extra_cdrom_ks
14 unattended_install.remote_ks.in_cdrom_ks
15 unattended_install.remote_ks.http_ks
16 unattended_install.remote_ks.floppy_ks
17 unattended_install.pxe.extra_cdrom_ks
18 unattended_install.pxe.in_cdrom_ks
19 unattended_install.pxe.http_ks
20 unattended_install.pxe.floppy_ks
21 unattended_install.kernel_initrd.extra_cdrom_ks
:
```