Setting up a Documentation Server

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Installing Gollum Wiki (based on Git and Markdown)

See https://github.com/gollum/gollum for details.

Install Ruby

```
sudo apt-get install ruby ruby-dev make make zlib1g-dev libicu-dev build-essential git
```

Then, use Ruby package manager to install Gollum (this will take a while):

```
sudo gem install gollum
sudo gem install github-markdown
```

Now, create an empty Git repository with *git init –bare*, and test Gollum

```
mkdir WikiTest.git
cd WikiTest.git
git init --bare
gollum .
```

And open browser at http://localhost:4567 to test the repository.

Requiring a password

```
sudo mkdir -p /etc/gollum/
sudo touch /etc/gollum/authentication.rb
sudo chmod og-rwx /etc/gollum/authentication.rb
sudo nano /etc/gollum/authentication.rb
```

and add the following lines to it

```
# Requite authentication
module Precious
  class App < Sinatra::Base
    use Rack::Auth::Basic, "Restricted Area" do |username, password|
      [username, password] == ['ktp', 'tietomylly']
    end
  end
end
```

The launch Gollum with e.g.

```
sudo gollum --port 80 --live-preview --show-all /opt/git/KTPWiki.git --config
    /etc/gollum/authentication.rb
```

Auto-starting the Wiki at system boot

Create a very rudimentary init script with

```
sudo nano /etc/init.d/gollum
```

and add the following lines to it

```
#!/bin/sh

### BEGIN INIT INFO
# Provides:          scriptname
# Required-Start:    $remote_fs $syslog
# Required-Stop:     $remote_fs $syslog
# Default-Start:     2 3 4 5
# Default-Stop:      0 1 6
# Short-Description: Start daemon at boot time
```

```
# Description:       Gollum Wiki
### END INIT INFO

USER="ktp"

case $1 in
start)
sudo -u $USER gollum --port 8080 --live-preview --config /etc/gollum/authentication.rb --show-all
    /opt/git/KTPWiki.git/ &
;;
stop)
killall gollum
;;
esac
exit 0
```

s The make the file executable with

```
sudo chmod uog+x /etc/init.d/gollum
```

Now, gollum can be started and stopped with

```
sudo service gollum start
sudo service gollum stop
```

Finally, add gollum to Ubuntu default runlevel (2) to make it boot start automatically when the server starts

```
sudo ln -s /etc/init.d/gollum /etc/rc2.d/S99gollum
```

Forwarding tcp port 80 to 8080

For details, see: http://askubuntu.com/questions/427600/persist-port-routing-from-80-to-8080 and https://www.digitalocean.com/community/tutorials/how-to-set-up-a-firewall-using-iptables-on-ubuntu-

Gollum can be run with ordinary user *ktp* on port 8080, but to simplify things, we forwards the standard www-port 80 to 8080.

First, add a forwarding rule to iptables

```
sudo iptables -t nat -A PREROUTING -p tcp --dport 80 -j REDIRECT --to 8080
```

Then, test that it is there

```
sudo iptables -t nat -n -L
```

If the service works as intended, save the rule such that it be loaded on server reboot:

```
sudo apt-get update
sudo apt-get install iptables-persistent
```

If the rules are later updated, these new rules can be saved with

```
sudo invoke-rc.d iptables-persistent save
```