

OpenTUSK Upgrades and Troubleshooting

OpenTUSK Training
University of Nairobi

Mike Prentice
michael.prentice@tufts.edu

Tufts University
Technology for Learning in the Health Sciences

July 2013



Outline

- 1 Troubleshoot
- 2 Git
- 3 Upgrade



Resources

- Official website:
<http://opentusk.org/>
- Wiki documentation:
<https://wikis.uit.tufts.edu/confluence/display/TUSKpub/Home>
- Source code:
<https://github.com/opentusk/Opentusk>
- Pro Git:
<http://git-scm.com/book>



Coming Up...

1 Troubleshoot

2 Git

3 Upgrade



Troubleshooting OpenTUSK

- Common sources of error:
 - Incorrect info in `tusk.conf`
 - Typo in `tusk.conf` (JSON parse error on Apache startup)
 - SELinux is not disabled
 - Hostname is not set or improperly set
 - Apache configuration files are incorrect
 - Apache MIME magic module not disabled



Coming Up...

1 Troubleshoot

2 **Git**

3 Upgrade



Git

- OpenTUSK source code is maintained in Git
- Distributed on GitHub
- Don't need to know Git
- Helpful for saving customized OpenTUSK
- Recommended reading
 - Pro Git: free at <http://git-scm.com/book>



Git Essentials

- Download code with `git clone`. Previously covered.
- Prepare to save your customizations. Replace “nairobi” with the name of your university.

```
# cd /usr/local/tusk/current
```

```
# git checkout -b nairobi
```

- Save your customizations

```
# git add .
```

```
# git commit -m "Customizations for my site"
```



Coming Up...

1 Troubleshoot

2 Git

3 Upgrade



OpenTUSK Versions

- OpenTUSK is in active development. Display the versions.

```
# git tag -l  
  
opentusk-4_0_0-alpha1  
opentusk-4_0_0-alpha2  
...  
opentusk-4_0_0-beta1  
...
```



Upgrade

- 1 Stop OpenTUSK
- 2 Switch to OpenTUSK master branch
- 3 Download new version
- 4 Upgrade database
- 5 See upgrade folder for required upgrade tasks (if any)
- 6 Merge customizations with new version
- 7 Start OpenTUSK



Stop Apache

```
# /sbin/service httpd stop
```



Download

- Switch to master branch

```
# cd /usr/local/tusk/current
```

```
# git checkout master
```

- Download the latest version of OpenTUSK from Github

```
# git pull origin master
```



Upgrade Database

```
# cd /usr/local/tusk/current/bin/db

# perl upgrade.pl
  --verbose
  --all
  --dbuser=tusk
  --dbpw=<password>
```



Look for Upgrade Instructions

- Upgrade instructions are in text files in the upgrade folder
- May require edits to `tusk.conf` and/or Apache conf files
- May require installing new packages with `yum -y install`



Keep Customizations

- Switch to our customizations branch (replace “nairobi” with the name you used earlier)

```
# cd /usr/local/tusk/current
```

```
# git checkout nairobi
```

- Merge in new changes

```
# git merge master
```

- Most of the time everything will work without problem



Merge Conflicts

- Sometimes there will be a “merge conflict.” They look like this:

```
# git merge master
```

```
Auto-merging index.html
```

```
CONFLICT (content): Merge conflict in ...
```

```
Automatic merge failed; fix conflicts and then commit  
the result.
```

- Don't worry, looks scarier than it is
- Good reference:

```
http://git-scm.com/book/en/
```

```
Git-Branching-Basic-Branching-and-Merging#
```

```
Basic-Merge-Conflicts
```



Resolve Merge Conflicts

- If you get a merge conflict it is because the OpenTUSK developers made changes to the customization parts
- Look at the files listed as conflicts. `git status` helps:

```
# git status
```

- Edit those files and look for <<<<<, =====, and >>>>>. These mark conflicts.
- Fix conflicts and re-save your customizations

```
# git add .
```

```
# git commit
```

- Type `:wq` in the screen that pops up to continue
- Contact us on the `tuskexternal` mailing list with questions and for help



Start Apache

```
# /sbin/service httpd start
```



Resources

- Official website:
<http://opentusk.org/>
- Wiki documentation:
<https://wikis.uit.tufts.edu/confluence/display/TUSKpub/Home>
- Source code:
<https://github.com/opentusk/Opentusk>
- Pro Git:
<http://git-scm.com/book>

