

Jenkins

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Griz Bates

- Hudson was a popular alternative to CruiseControl in 2008
- Hudson was “owned” by Sun but they didn’t trademark the name
- Once Oracle bought Sun, they claimed the name to Hudson
- Community rallied and forked Hudson into Jenkins
- Once that happened, the project took off and nobody has ever looked back.
- Don’t believe me? Google for Hudson and Google for Jenkins.
- <http://jenkins-ci.org/>

License

- MIT
- <http://opensource.org/licenses/MIT>
 - Open, permissive,

- Continuous Build – Build your project on **EACH CHECKIN**
- Continuous Testing – Run through unit tests on **EACH CHECKIN**
- Continuous Release – Run through integration tests and possibly push to production on **EACH CHECKIN**

Continuous Integration

- **Continuous integration (CI)** is the practice, in software engineering, of merging all developer workspaces with a shared mainline several times a day.
- http://en.wikipedia.org/wiki/Continuous_integration

Continuous Deployment

- http://en.wikipedia.org/wiki/Continuous_delivery

- <http://wiki.jenkins-ci.org/display/JENKINS/Plugins>
- Must Have Plugins
 - Chuck Norris
 - Beer Plugin
 - Emotional Jenkins Plugin
 - Lava Lamp
 - Leader Board
 - Sonar

Reporting

- Graphs can show pretty much anything
- Build Failures
- Code Coverage
- LOC Change (Sonar)

I'm sold! Now What?

- Need to install
- Bring up the UI
- Create your project and you're off!

```
/etc/yum.repos.d/jenkins.repo
```

```
[jenkins]
```

```
name=Jenkins
```

```
baseurl=http://pkg.jenkins-ci.org/redhat
```

```
gpgcheck=1
```

- yum install jenkins
- Updates are done through the GUI after that

Integration with Mercurial

[web]

description = Web Services

contact = A Developer <A_Great_Developer@mcafee.com>

[hooks]

pretxnchangegroup.PhpSyntax = /home/local/hg/hooks/phplint

changegroup.jenkins = /home/local/hg/hooks/build-ci -b -u http://

jenkins.mcafeesaas.com:8080 multiPlatformBuilder project=webService

Creating a Project

- Can be GUI driven or CLI/API
- Choose your CM tool
- Choose your build trigger
- <http://wiki.jenkins-ci.org/display/JENKINS/Building+a+software+project>

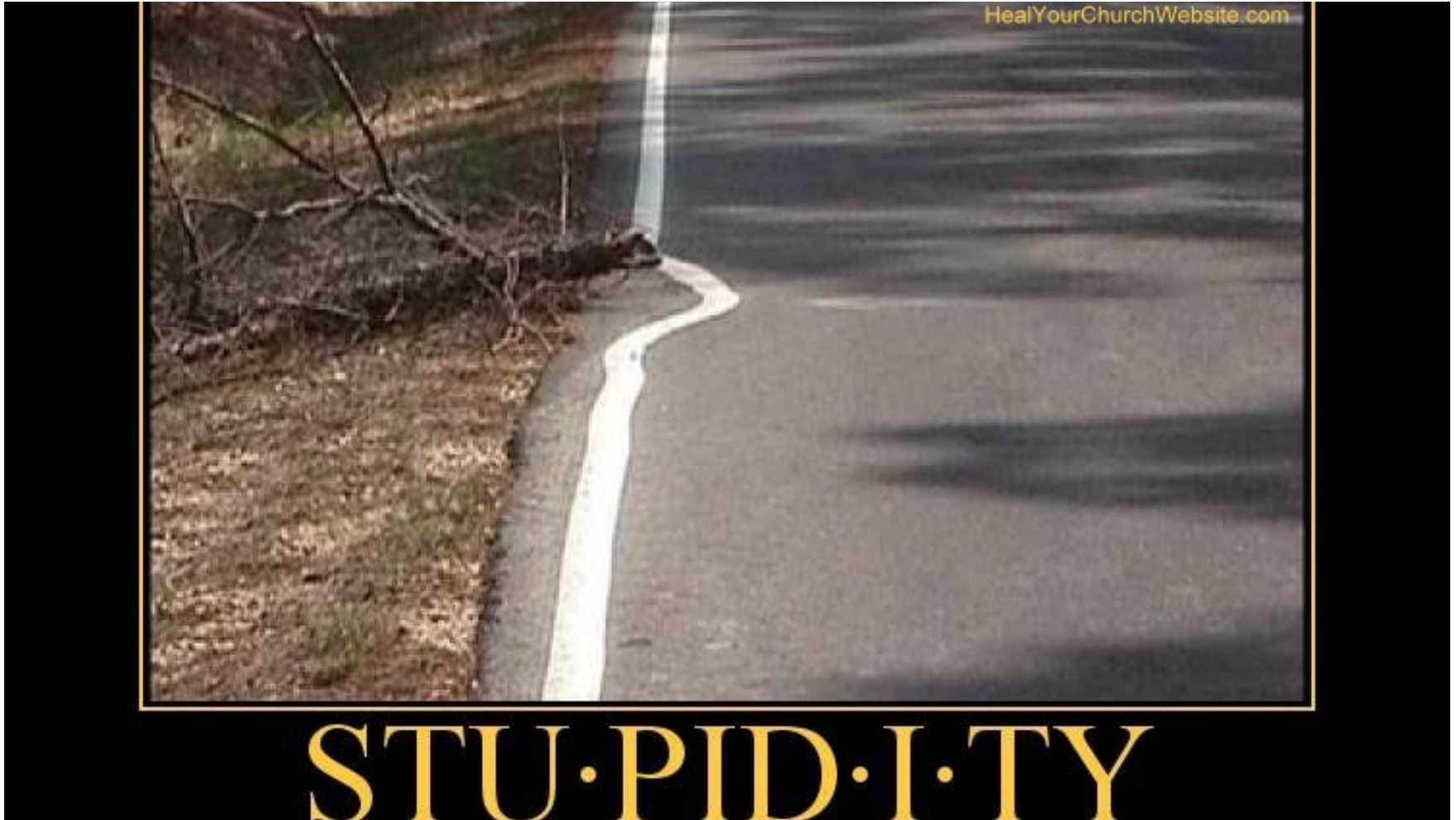
Jenkins API

- Retrieve Information from Jenkins
- Trigger a new build
- Create/Copy Jobs
- <http://wiki.jenkins-ci.org/display/JENKINS/Remote+access+API>

Integrating your New Pi

- Grab your Pi's and lets get crackin'
- Lava Lamp Notifier
- Stop Light Notifier
- Literally 100's more

Let's show it!



Questions?

