

DevOps Agile Geek Week

Software does not scale. Software teams do not scale.

Architecture should be as much about enabling small teams to work on small components as the technical requirements of the software.

What You'll Learn

- How to 'do' Agile
- How *not* to 'do' Agile
- Agile/DevOps related tools
- IaaS and PaaS basics
- How to talk about this in the real world

Themes

- Automation
- Text Configuration (JSON/YAML)
 - machine parseable, human readable
- Everything in Git
- Local Tools = Production Environments - Scale
- Free/Opensource Tools

Day 1 Agenda

- Get Acclimated to Tools
- What is / how to do Agile
- Sprint Planning

Tools

- Git
- Vagrant
- VirtualBox
- CloudFoundry CLI
- Slack
- Trello

you should have these installed already (they were your

Git

a distributed version control system, where every user has a complete and full copy of the source code.

if you can't check it in, you can't keep track of it, so you can't version it, so you can't automate it. *everything* belongs in source code control, and git is the standard in 3rd platform. other possible options: subversion (svn), mercurial (hg), Perforce (p4), ClearCase (cc).

GitHub?

A freemium service to host Git repositories (repos). Public repos are free, private ones are \$\$\$

Vagrant

A tool for managing sets of virtual machines that comprise an application, defined as text (so they can be versioned in Git!).

```
Vagrant.configure("2") do |config|
  if Vagrant.has_plugin?("vagrant-proxyconf")
    # config.proxy.http      = "http://proxy.vmware.com:3128/"
    # config.proxy.https     = "http://proxy.vmware.com:3128/"
    # config.proxy.no_proxy = "localhost,127.0.0.1,.vmware.com"
  end
  scaleio_nodes.each do |node|
    config.vm.define node[:hostname] do |node_config|
      node_config.vm.box = "#{vagrantbox}"
      node_config.vm.box_url = "#{vagrantboxurl}"
      node_config.vm.host_name = "#{node[:hostname]}.#{domain}"
      node_config.vm.provider :virtualbox do |vb|
        vb.customize ["modifyvm", :id, "--memory", "1024"]
      end
    end
  end
end
```


CloudFoundry CLI

A command line tool for managing CloudFoundry applications and related services. Again, all CLI so that it can be scripted and automated.

Slack

Think of it like IRC on 'roids'. Team chat with multiple channels, integrations with services, etc. Mobile tools.

Often used to significantly replace email within Agile teams

Trello

An online 'Kanban' board to track tasks and completion.