CHUGALUG June 16, 2011

Configuration Management with Puppet.

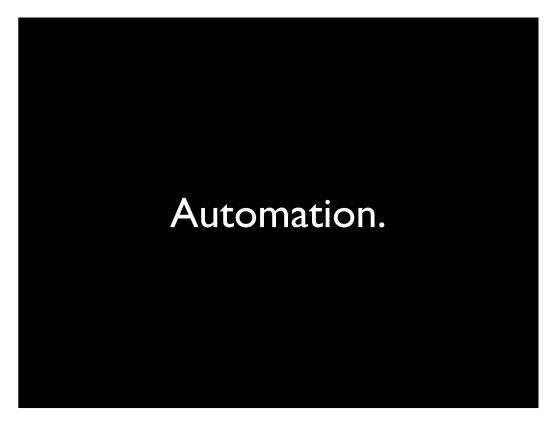
Nate Childers



CM is a big topic, we're focused on what's typically called SCM. configuration inventory (documentation), controlled change (change management), elimination of entropy

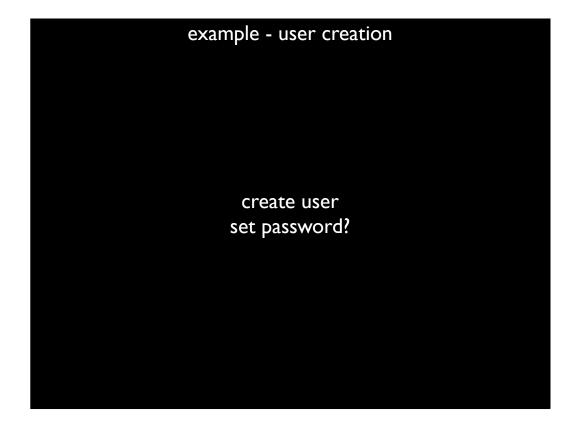
Transparent Operations.

Why do we care? The answer is simple: Take what we do and make it repeatable.



Reliable. as good as we are we will always make mistakes.

rsync, tar, rm, useradd, the tools we use. we all know all the options and run them the same way each time right?



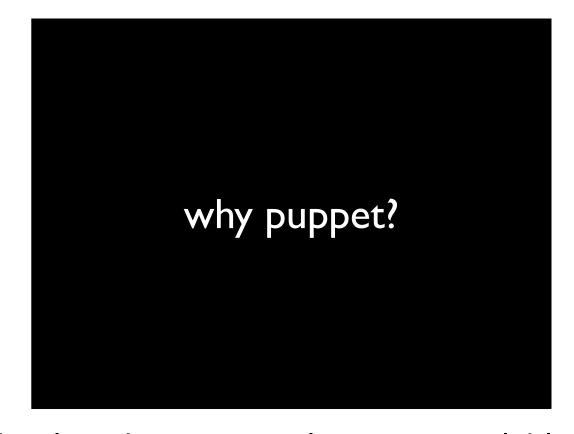
this is easy right? we do this all the time.

```
create user
set password
populate content
install packages?
home directory?
scripts?
setup sudo
loosen firewall
```

Little bit more real world example here

example - "temporary" user creation IN OUT tighten firewall create user revert sudo set password populate content remove content install packages? packages? home directory? scripts? scripts? logs? backups? setup sudo loosen firewall remove user

what if we don't want them to stick around forever?



Ruby, actively developed, commercial support available.

how to do it in puppet code.

```
class chugalug::doit {
    user {"chugalug":
        ensure => present,
        password => '$yourcryptstringhere!'
        comment => "Classic Hackers UGA Linux Users Group",
}

file {"/home/chugalug":
        source => "/nfs/swamp/c/ch/chugalug",
}

package {"vim-enhanced":
        ensure => latest,
}

iptables { "let chugalug in because they friendly.":
        ensure => present,
        port => "tcp:22",
        source => "192.168.50.28/32",
        jump => "ACCEPT",
}
}
```

how to undo it in puppet code.

```
class chugalug::undoit {
  user {"chugalug":
     ensure => absent,
  }
  file {"/home/chugalug":
     ensure => absent,
  }
  package {"vim-enhanced":
     ensure => absent,
  }
  iptables {"let chugalug in because they friendly.":
     ensure => absent,
  }
}
```

that was easy, right?

doesn't have to be complicated, start simple and grow. ntp

Adopting configuration management can improve your life.

resources

puppetlabs.com wiki, opensource SCM systems => goo.gl/9pQjX

Nate Childers
nate@uga.edu
natebc@gmail.com