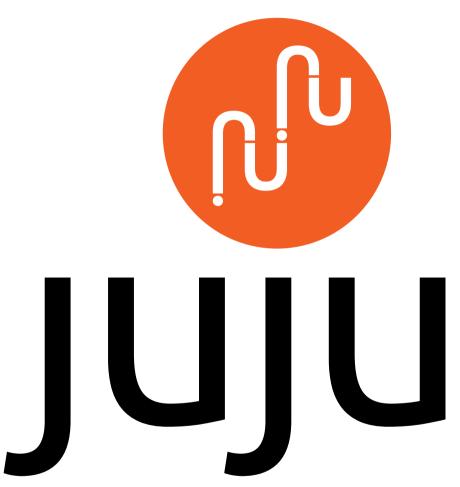
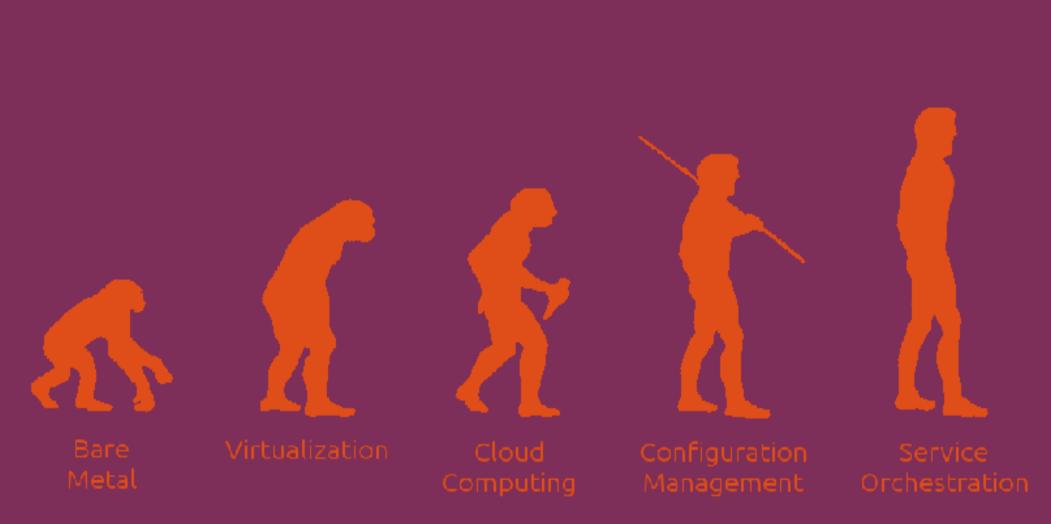
## Juju — make your life easier in the cloud



- Zhengpeng Hou
- Zhengpeng.hou@canonical.com







## apt-get install <YOUR SERVICE>





### Example: Mediawiki

- juju deploy mysql wiki-db
- juju deploy mediawiki demo-wiki
- juju deploy memcached wiki-cache
- juju deploy haproxy wiki-balancer
- juju add-relation wiki-db:db demo-wiki:db
- juju add-relation wiki-cache demo-wiki
- juju add-relation wiki-balancer:reverseproxy demo-wiki:website
- juju add-unit wiki-cache
- juju add-unit demo-wiki





### Charms are simple

- Some yaml metadata
- A few scripts that run at the right time requires:
- Well encapsulated
- Written with whatever tool you want!
- Assumptions can be eliminated
- Easy to read, easy to review
- https://code.launchpad.net/charm

```
name: mediawiki
summary: "website engine for collaborative work"
description:
MediaWiki is a wiki engine (a program for
 creating a collaboratively edited website). It is
 designed to handle heavy websites containing
 library-like document collections, and supports
 user uploads of images/sounds, multilingual
 content, TOC autogeneration, ISBN links, etc.
 db
    interface: mysql
  slave
   interface mysql
  cache
   interface: memcache
provides:
 website
    interface: http
```





Charms today

# nodeJS



**Think**Up





НАРгоху







MySQL



**Jenkins** 









redis



### Deployment Options

- •EC2 API
- Ubuntu MAAS
- Local Dev
- •??? Fully abstracted





### The Future

- Charm Store
- Subordinate Charms
- Placement Constraints
- Stacks
- Storage Management
- Cloud Federation
- Auto Scaling
- Charms, Charms, Charms...



http://www.flickr.com/photos/tom\_twinhelix/3916931452/sizes/l/in/photostream/





#### **CANONICAL**

- All development is public
- Free and Open Source Software
- Communication is open

### Join Us

- IRC: #juju on irc.freenode.net
- Launchpad: https://launchpad.net/juju
- Web: https://juju.ubuntu.com/

