Deploying JuJu in an LXC Environment

Installing Packages

These instructions assume that v0.6 of juju has been installed from the
Ubuntu ppa, and that Ubuntu 12.04.2 LTS is being used.

1. Install lxc:
$ sudo aptitude install lxc apt-cacher-ng

2. Install libzookeeper-java and zookeeper:
$ sudo aptitude install libzookeeper-java zookeeper

3. Generate an ssh rsa key if you don't have one already:

$ ssh-keygen -t rsa -b 2048
when prompted choose the default .ssh directory

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Configuring juju to use a local environment

Create a directory within your home directory to hold juju transient data,
for example:
$ mkdir ~/juju_local_data

Edit ~/.juju/environments.yaml, adding a section of type "local":

default: sample
environments:
* sample:*
*   type: local*
*   control-bucket: juju-a14dfae3830142d9ac23c499395c2785999*
*   admin-secret: 6608267bbd6b447b8c90934167b2a294999*
*   default-series: precise*
*   juju-origin: ppa*
*   data-dir: /home/q/juju_local_data*

control-bucket and admin-secret are arbitrary, simple strings.

Deploying JuJu in an LXC Environment

Using JuJu to Deploy a Wordpress Blog Locally - 1

Derived from https://juju.ubuntu.com/docs/user-tutorial.html

$ juju bootstrap

in another terminal:
$ juju debug-log

in first terminal:
$ juju status
maybe repeat until the machine 0 is running

$ juju deploy mysql wordpress-db
check the status again

$ juju deploy wordpress

Deploying JuJu in an LXC Environment

Using JuJu to Deploy a Wordpress Blog Locally - 2

add a relation:
$ juju add-relation wordpress wordpress-db

$ juju expose wordpress

navigate with a browser to the appropriate ip address:
http://<ip-address>
play with wordpress to confirm it works!

In another terminal ssh into the machine:
$ ssh ubuntu@<ip-address>
and inspect

When all is done destroy the environment:
$ juju destroy-environment