Your cluster in 4 steps
(and in 15 min.)
Steps:

1 - Access the cluster
2 - Choose some nodes
3 - Choose the image
4 - Deploy
1 - **Access** the cluster:

```bash
outside:~$ ssh user@XX.XX.XX.XX
```
2 - Choose some nodes:

```bash
user@r11:~$ quinta status -a

r1: Chassis Power is on
r2: Chassis Power is on
r3: Chassis Power is on
r4: Chassis Power is off
r5: Chassis Power is off
r6: Chassis Power is off
r7: Chassis Power is off
r8: Chassis Power is off
r9: Chassis Power is on
r10: Chassis Power is on
r12: Chassis Power is on
s1: Chassis Power is on
s2: Chassis Power is on
s3: Chassis Power is on
s4: Chassis Power is off
s5: Chassis Power is off
s6: Chassis Power is off
s7: Chassis Power is off
s8: Chassis Power is off
s9: Chassis Power is off
s10: Chassis Power is off
s11: Chassis Power is off
```
2 - Choose some nodes:

```bash
user@r11:~$ echo r5 > myNodes
user@r11:~$ echo r8 >> myNodes
user@r11:~$ echo s7 >> myNodes

user@r11:~$ cat myNodes
```

r5
r8
s7
3 - Choose the **image**:

```
user@r11:~$ kaenv3 -l
```

<table>
<thead>
<tr>
<th>Name</th>
<th>Version</th>
<th>User</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>debian-base</td>
<td>1</td>
<td>root</td>
<td>Basic Debian Lenny image.</td>
</tr>
<tr>
<td>debian-xen</td>
<td>1</td>
<td>root</td>
<td>Xen image based on Debian Lenny.</td>
</tr>
<tr>
<td>ubuntu-base</td>
<td>1</td>
<td>root</td>
<td>Basic Ubuntu Lucid Lynx image.</td>
</tr>
<tr>
<td>ubuntu-java</td>
<td>1</td>
<td>root</td>
<td>Ubuntu Lucid Lynx image with Sun Java installed.</td>
</tr>
</tbody>
</table>
4 - **Deploy:**

```
user@r11:~$ kadeploy3 -e ubuntu-base -f myNodes
```

Launching a deployment ...
Performing a SetDeploymentEnvUntrusted step on the nodes.
Performing a BroadcastEnvChain step on the nodes.
Performing a BootNewEnvClassical step on the nodes.
Nodes correctly deployed on cluster r
r5
r8
Nodes correctly deployed on cluster s
s7
Your cluster is ready.

r5, r8 and s7
5 - Using the cluster:

user@r11:~$ ssh root@r5

root@r5's password: **********

root@r5:~$ who
root pts/0 2010-09-27 17:32 (r11.wan)

root@r5:~$ df

<table>
<thead>
<tr>
<th>Filesystem</th>
<th>1K-blocks</th>
<th>Used</th>
<th>Available</th>
<th>Use%</th>
<th>Mounted on</th>
</tr>
</thead>
<tbody>
<tr>
<td>/dev/sda3</td>
<td>38456340</td>
<td>871032</td>
<td>35631804</td>
<td>3%</td>
<td>/</td>
</tr>
<tr>
<td>None</td>
<td>16498300</td>
<td>184</td>
<td>16498116</td>
<td>1%</td>
<td>/dev</td>
</tr>
<tr>
<td>Tmpfs</td>
<td>16502724</td>
<td>0</td>
<td>16502724</td>
<td>0%</td>
<td>/dev/shm</td>
</tr>
<tr>
<td>None</td>
<td>16502724</td>
<td>52</td>
<td>16502672</td>
<td>1%</td>
<td>/var/run</td>
</tr>
<tr>
<td>None</td>
<td>16502724</td>
<td>0</td>
<td>16502724</td>
<td>0%</td>
<td>/var/lock</td>
</tr>
<tr>
<td>None</td>
<td>16502724</td>
<td>0</td>
<td>16502724</td>
<td>0%</td>
<td>/lib/init/rw</td>
</tr>
<tr>
<td>None</td>
<td>38456340</td>
<td>871032</td>
<td>35631804</td>
<td>3%</td>
<td>/var/lib/ureadahead/debugfs</td>
</tr>
</tbody>
</table>

user@r11:~$ quinta off r5 r8 s7
6 - Creating your own image:

user@r11:~$ kadeploy3 -e ubuntu-base -m r5

user@r11:~$ ssh root@r5

root@r5:~$ passwd root

root@r5:~$ export http_proxy="http://proxy:XX/"

root@r5:~$ apt-get install openjdk-6-jdk

root@r5:~$ echo "" > /etc/udev/rules.d/70-persistent-net.rules

root@r5:~$ tgz-g5k user@r11:~/my-ubuntu-java.tgz

root@r5:~$ exit
6 - Creating your own image:

user@r11:~$ vim myDescriptor

name : **my-ubuntu-java**
version : 1
description : Ubuntu Lucid Lynx image with Java.
author : **User (user@lasige.di.fc.ul.pt)**
tarball : /home/users/user/my-ubuntu-java.tgz|tgz
postinstall : /home/deploy/postinstalls/post4all.tgz|tgz|traitement.ash
kernel : /boot/vmlinuz-2.6.32-21-server
initrd : /boot/initrd.img-2.6.32-21-server
fdisktype : 83
filesystem : ext3
environment_kind : linux
visibility : shared

user@r11:~$ kaenv3 -a myDescriptor

Computing the md5sum for /home/users/user/my-ubuntu-java.tgz
Computing the md5sum for /home/deploy/postinstalls/post4all.tgz

user@r11:~$ quinta off r5