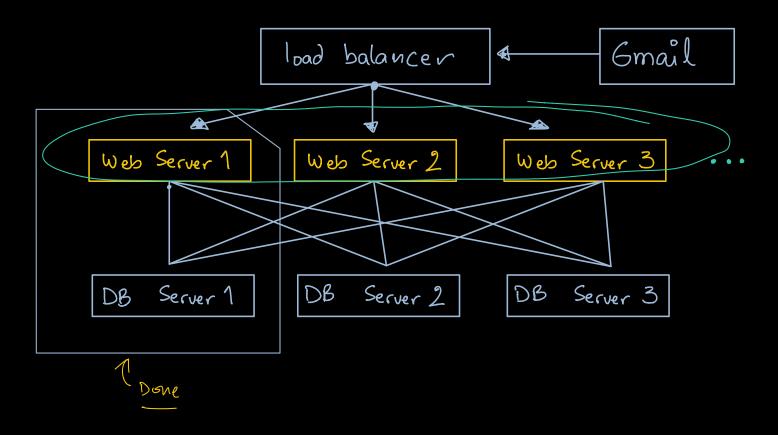
## Handling Scale;



## Create one server:

- 1. Install pre-regs
- 2. Install apache
- 3. Copy code
- 4. Start service
- Now do it 50 times! Solution? Doclar
  - Setup once, create image, duplicate

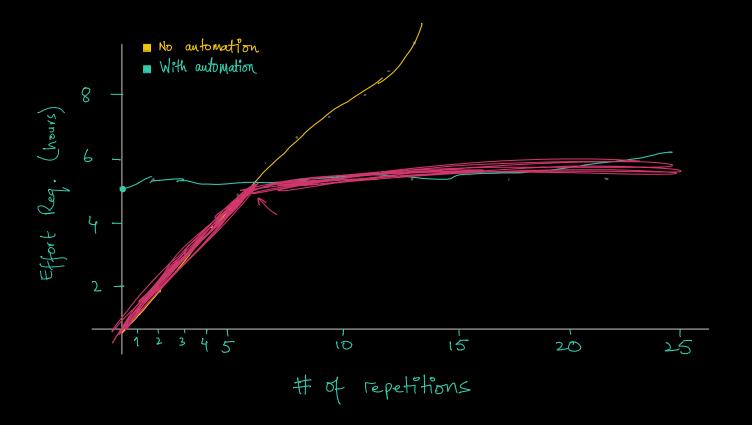
But:
\_ Not everything runs in a container.

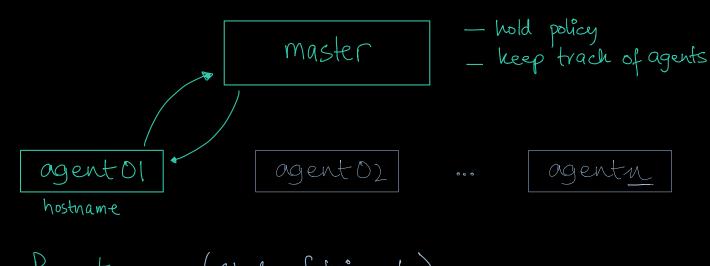
- What happens when you have to update apache?
- Or another configuration across the whole data center?

Golden rule of programming:

a good programmer is a lazy programmer!

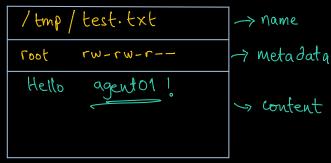
- if you are repeating something, automate it!





- Puppet (Chef, fabric, etc)
"Infrastructure automation and delivery".

- Puppet "hello world"



- cannot copy the file
   bash script is possible ... but cumbursome
- Procedure:
- 1. Setup a master
- à. Define lie target state
- 3. Setup an agent

## DEFINING THE STATE:

- Use puppet's own language Demain Specific language
- Defines what we want, not how to achieve it

## Declarative knowledge: $- \sqrt{x} = y$ Such that $y^2 = x$ Imperative knowledge: Obeclarative $6^2 = 36$ $\times \sqrt{36} = 5$ Obeclarative $\sqrt{36} = 5$ First semester.

first semester... - guess, improve, stop when good enough Puppet uses a declarative language: define what you want ource type file 3 "/tmp/test.txt"; mode: "0664", { attributes owner: "root", Content: "Hello world", - Define state in terms of resources... Pupper takes care of the "how". \$ touch /tmp/test.txt

\$ touch /tmp/test.txt
\$ chmod 0664 /tmp/test.txt
\$ chown root /tmp/test.txt
\$ echo "Hello world" > /tmp/test.txt

- There's a lot more to the language but let's use this first.