# Vagrant

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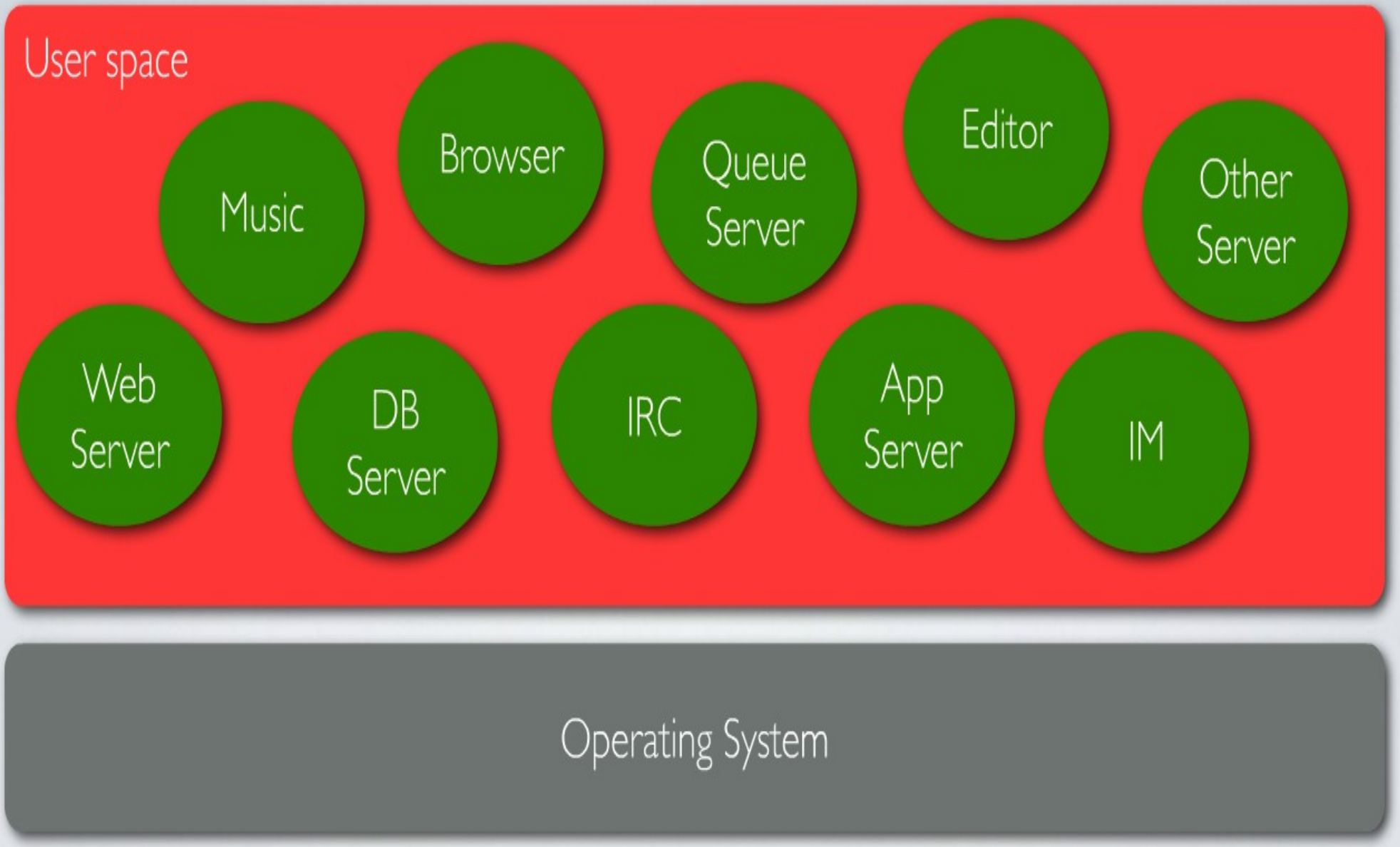
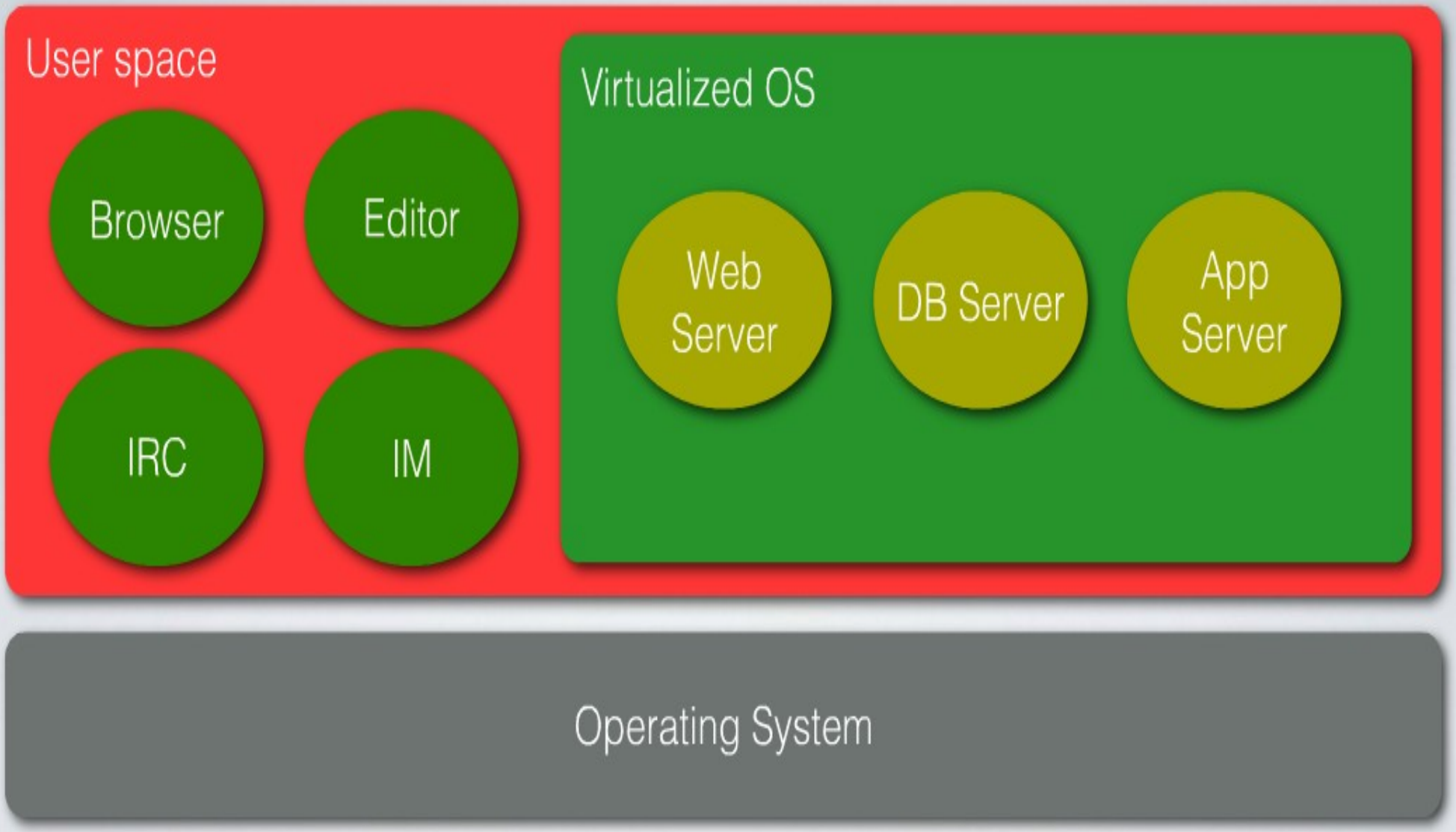
# Agenda

- Why use Vagrant?
- What is Vagrant?
- DevOps with Vagrant in mind


User space
Music
Browser
Queue Server
Editor
Other Server
Web Server
DB Server
IRC
App Server
IM
Operating System

- No Isolation.
- No Repeatability.
- No Verification.


User space
Browser
Editor
IRC
IM
Virtualized OS
Web Server
DB Server
App Server
Operating System

- Isolation
- Mirror Production
- Test Ops scripts with a free server
- Faster onboarding
- Designers/Managers can do it, too!

Dev **and** Ops

Not (Dev **or** Ops)

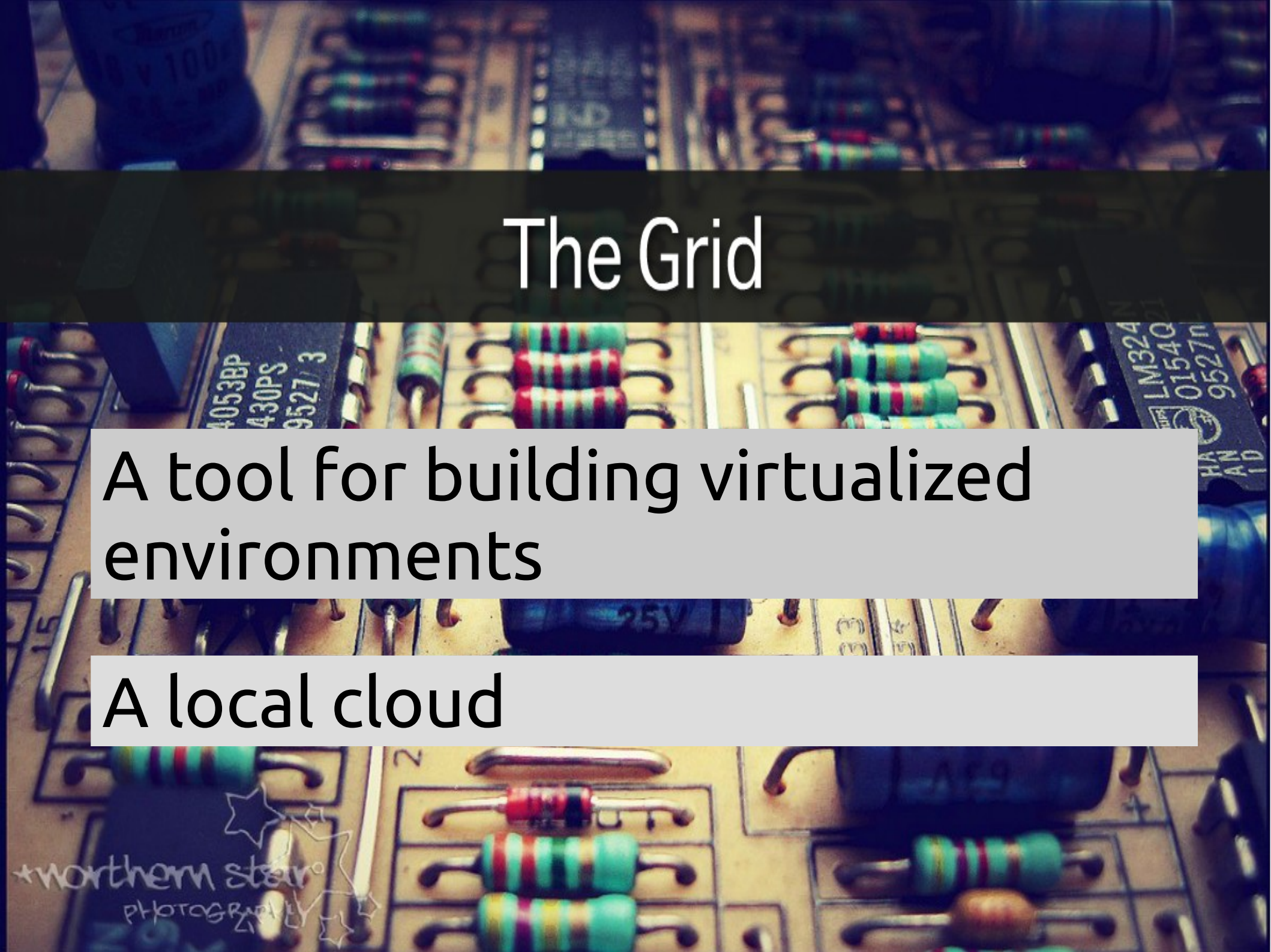
# #1 Dev Excuse

# Been there...

- Quick fix lost on a reboot!
- I thought that service never went down...
- Why did the database go down? My code doesnt do that.
- I thought this compiled code would run everywhere...

http://programmingexcuses.com/

# What is it?


The Grid
A tool for building virtualized environments
A local cloud

# Tao of Vagrant

- Developers can check out any code repository and **vagrant up**.
- Systems Ops engineers can **vagrant up** and have a complete sandbox matching production.
- With **vagrant up,** Automation engineers can work and use the same setup scripts in both dev and prod
- All this knowledge transfers to every project.

# Quick Demo

- Create and teardown virtual machines.
- Use automation to provision and configure.
- Network multiple machines.

# Alternatives

- Plain Desktop Virtualization
- Containers
- Cloud

# Demo

- Multi-Machine deployments.
- Package and distribute VM images.
- Plug-ins.