

# Computing clouds

The next evolutionary step in software

# Amazon's EC2 computing cloud

- EC2 - Access to amazon.com's cluster of servers
- Duplicated server platforms controlled via software
- Dynamically scalable entirely within the application layer
- Virtually limitless resources

= Elastic computing

- Start servers when you need them
- Shutdown servers when you don't
- Redundancy in resources
- 2-second deployment time

Demo time



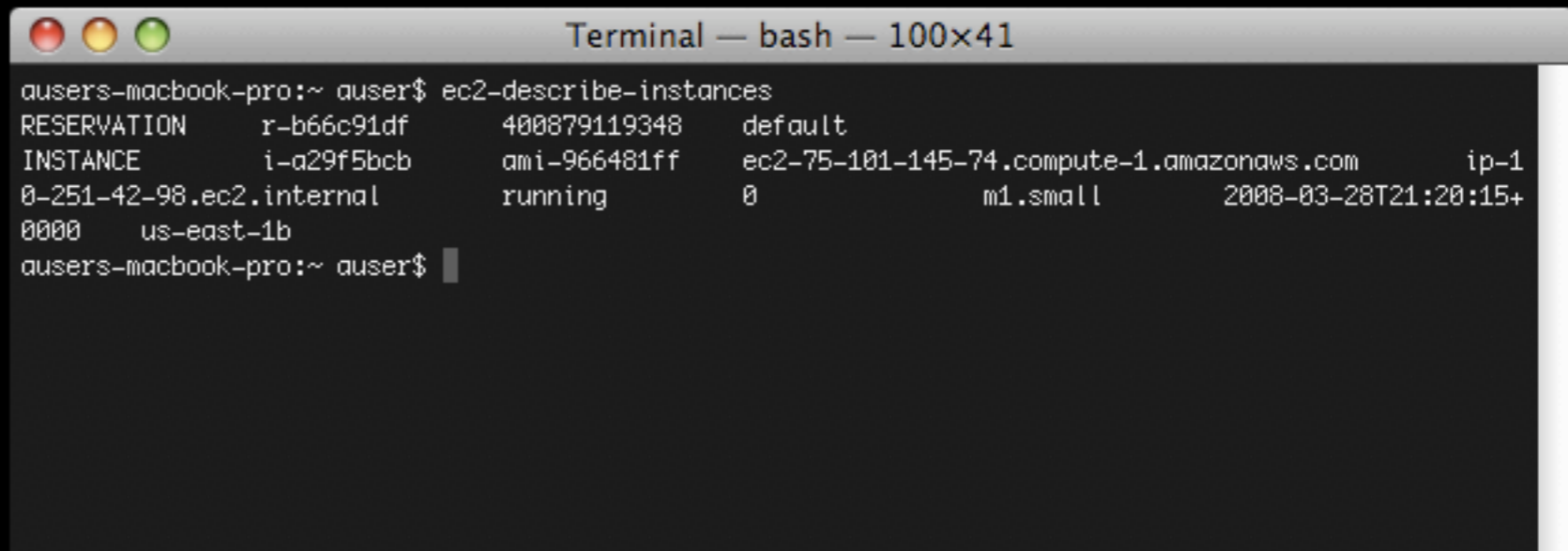


# Make the cloud

```
# ec2-run-instances ami-bd9d78d4
# ec2-describe-instances
# ssh -i ~/.ec2/auth/id_rsa-my-keypair root@ec2-xxx-xxx-xxx-xxx.compute-1.amazonaws.com
```

*Make your perfect server here*

```
# scp -i ~/.ec2/id_rsa-my-keypair
~/.ec2/*.pem admin@ec2-XXX-XXX-XXX-
XXX.compute-1.amazonaws.com:/mnt/aws-
config
# sudo ec2-bundle-vol -u
$AWS_ACCOUNT_ID -c /mnt/aws-config/
$CERT_FILE_NAME -k /mnt/aws-config/
$KEY_FILE_NAME
# ec2-upload-bundle -b [your-bucket] -
m /tmp/image.manifest.xml -a [your
access key] -s [your secret access key]
# ec2-register -K /mnt/aws-config/
$KEY_FILE_NAME -C /mnt/aws-config/
$CERT_FILE_NAME [your-bucket]/
image.manifest.xml
```



Terminal — bash — 100x41

```
ausers-macbook-pro:~ auser$ ec2-describe-instances
RESERVATION      r-b66c91df      400879119348    default
INSTANCE         i-a29f5bcb      ami-966481ff    ec2-75-101-145-74.compute-1.amazonaws.com    ip-1
0-251-42-98.ec2.internal    running         0                m1.small        2008-03-28T21:20:15+
0000    us-east-1b
ausers-macbook-pro:~ auser$
```

# Rejoice

With your new computing cloud

Forget what we just did

kind of...

Don't Repeat Yourself

# Uses

- Host the entire app
- Offload computing intensive tasks (cronjobs, search indexing, game AI, etc)
- Parallelizable tasks (rendering, matrix computations, etc)

# Thank you

**citrusbyte**