

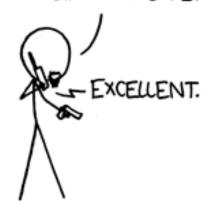
Amazon Web Services:

Infrastructure in a few clicks

Travis Carlson

http://tcarlson.systems

WE TOOK THE HOSTAGES, SECURED THE BUILDING, AND CUT THE COMMUNICATION LINES LIKE YOU SAID.



BUT THEN THIS GUY CLIMBED UP THE VENTILATION DUCTS AND WALKED ACROSS BROKEN GLASS, KILLING ANYONE WE SENT TO STOP HIM. AND HE RESCUED

THE HOSTAGES?

NO, HE IGNORED THEM.
HE JUST RECONNECTED
THE CABLES WE CUT,
MUTTERING SOMETHING
ABOUT "UPTIME".



About the presenter

- Systems Architect for a small startup
- Application Integration specialist
- Back-end Java Developer
- SysAdmin poser
- No affiliation with Amazon!

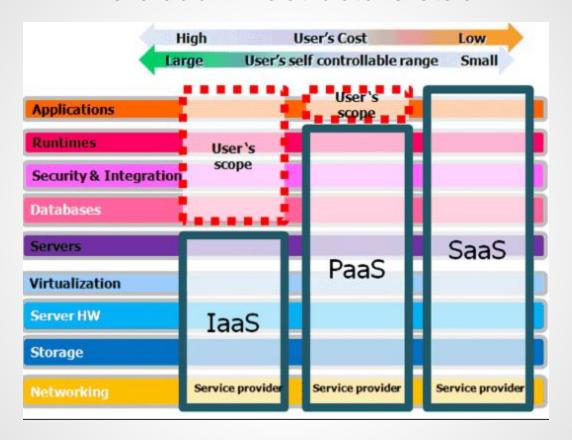


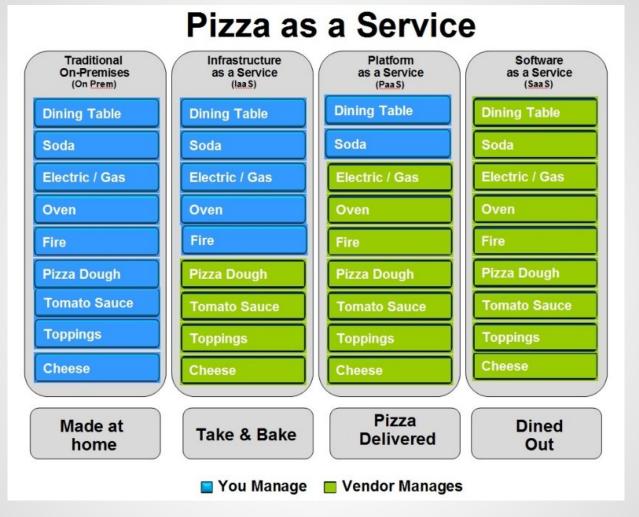
1. http://www.urbandictionary.com/define.php?term=poser

Who is laaS for? Why should a developer care?

- Startups/SMBs
- Proof of Concepts
- Agile teams blocked by bureaucracy
- Elastic map-reduce style jobs
- Side/personal projects
- etc...

The cloud infrastructure stack





Where does AWS fit into the stack?

Anywhere you want!



The Essentials

• EC2 - server

RDS - relational database

CloudWatch - monitoring

Going further

- S3 Cheap, reliable storage
- Glaciar Even cheaper S3 storage
- CloudFront CDN
- DynamoDB NoSQL database
- ElastiCache Memcached service
- SQS Message queues
- SES E-mail service



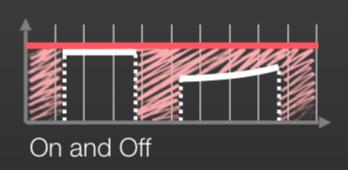
EC2 Demo

- Create instance
- Create database
- Connect + install web server, test database
- Set up monitors/alerts
- Backup server + database
- Restore + scale up instance
- Command line operations

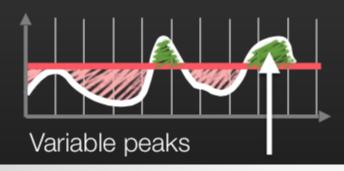
Basic EC2 Concepts

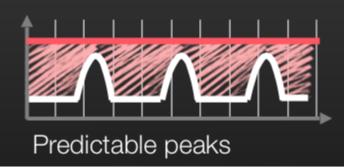
- AMI (Virtual Machine Image)
- Instance Type vCPUs
- EBS (Storage Volumes)
- VPC (Network security)
- Elastic IP

Elastic Capacity (or lack of in this case)









EC2 Advanced

- Load Balancer
- Auto Scaling
- CloudFormation / OpsWorks (Configuation automation)
- Container Service (Docker)
- Private Cloud VPN<->VPC

DISCUSSION