WHAT'S NEXT WITH

CLOUD ☁

SWAPNIL KULKARNI

CLOUD ARCHITECT @ PERSISTENT SYSTEMS

SETTING THE CONTEXT WITH A REAL LIFE EXAMPLE

- Going to some place in a car…

THE REQUIREMENT
GOING TO SOME PLACE IN A CAR

What is the requirement?	• Travel
Who has this problem?	• Someone who doesn't own a car
Why should you have this problem?	• Can't Drive or Don't have a Car
How will I solve this problem?	• Ola/Uber/Cab

LOOKING AT THE TECHNOLOGY SIDE OF IT

- What would you need for your year end project?

LET'S RELATE THIS TO COMPUTING

What is the requirement?	• Compute, Storage, Network, …
Who has this problem?	• You don't have h/w, s/w, trained resources, etc
Why should you have this problem?	• To complete certain job
How will I solve this problem?	

THE SOLUTION ???

- A distributed computing model
- Provides a variety of computing resources
  - Servers
  - Storage
  - Email
  - Security
  - Backup
  - Voice
- **Everything delivered over Internet is some form of Cloud**

WHAT CLOUD COMPUTING PROVIDES

- Shared Services
- Access
- Cost Savings
- On-demand Self-service
- Resource Pooling

- Elasticity
- Monitoring/Metering
- Chargeback
- Integrations

AS A SERVICE MODELS

Infrastructure as a Service	Platform as a Service	Software as a Service

ANOTHER EXAMPLE

- Java/.NET Web Application
- Database MySQL/Postgres

PRIMARY TYPES OF SERVICES

IaaS	PaaS	SaaS	Anything as a Service
- Server - Network - Storage	- Java SDK/JDK - MySQL/Postgres	- URL for the UI - Load Balancers	

CLOUD COMPUTING – SERVICE MODELS

IaaS

- A service model that involves outsourcing the basic infrastructure
  - support operations
  - storage
  - hardware
  - servers
  - networking components

PaaS

- A service model that involves outsourcing the basic infrastructure and platform
  - deploying applications
  - without the cost and complexity of buying and managing the underlying hardware and software where the applications are hosted.

SaaS

- A service model that involves outsourcing the infrastructure, platform, and software/applications

CLOUD COMPUTING
EXAMPLE SERVICE PROVIDERS

IaaS

- Amazon Web Services (AWS)
- Microsoft Azure
- Google Cloud

PaaS

- Force.com
- Heroku
- Google App Engine

SaaS

- Salesforce.com
- Microsoft Office 365
- Google GSuite

WHAT IT LEADS TO

- Everything as a Service

- Migration / Transformation

- Portability

- Standardizations

THINGS TO LOOK FORWARD TO

- Open Source Software

- Cloud Native Development

- Being Hands-on/Certifications

- Continuous Learning

THANK YOU!