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DevOps Courses by IBM on Coursera

Course 1: Introduction to DevOps

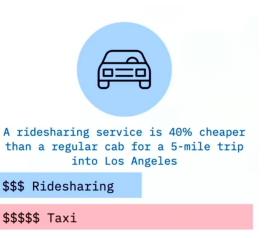
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1.1. Course Introduction

 \rightarrow Devops is practice of Engineers working together through full SLDC, in a rapid and continuous manner. This is the heart of the DevOps Culture.

1.2. Business Case for DevOps

- → Since the Year 2000 52% of Fortune 500 Companies are gone due to disruption.
- → If it takes a bank 6 months to deploy updates to software a lot of customers might get lost.
- → Speed is very important in CI/CD
- → Uber disrupted Taxi industry with Open Source Software.



- → Netflix disrupted Blockbuster
- → Technology enables innovation, doesn't drive it by itself.

1.3. DevOps Adoption

- → fail fast, roll back quickly
- \rightarrow A/B testing
- → Microservices are usable and recommended for this
- → January 2011 Etsy deploys every ~25min, in 1 month they:

```
• Code committed by 76 people

→ a total of 517 times
```

2016 DevOps Enterprise Summit

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Ticketmaster - 98% reduction in MTTR

Nordstrom - 20% shorter lead time

Target - Full Stack Deploy three months to minutes

USAA - Release from 28 days to 7 days

ING - 500 application teams doing DevOps

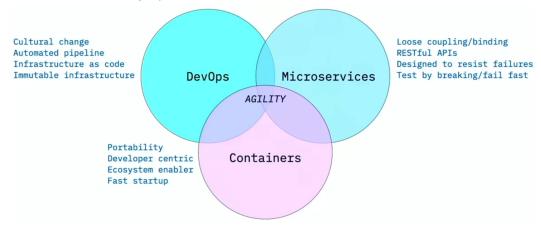
→ 2016: CSG - From 200 incidents per release to 18
```

1.4. Definition of DevOps

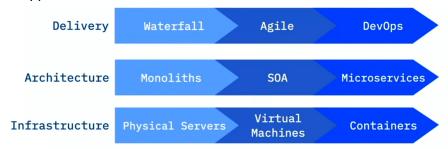
- \rightarrow "Development Operation is an extension of agile development that aims to enhance the proces of software delivery as a whole" Patrick Debois, 2009
- → DevOps is Devs and Ops working together in full SLDC following agile principles
- → DevOps requires a new application design, leveraging automation for microservices and a defined programmable platform to deploy on to.

1.5. Essential Characteristics of DevOps

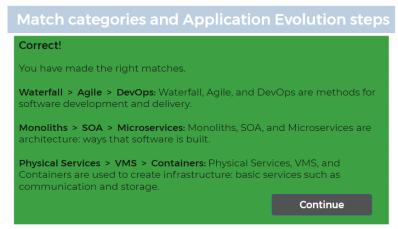
- → Be agile, move in market with minimum risk and maximum velocity, gain valuable insights
- → Three Pillars of Agility:



→ Application evolution:



1.6. Activity: Identify Categories in Applicaation Evolution



→

- 1.7. Practice Quiz: Introduction To DevOps: Practice Quiz 1
- Congratulations! You passed!
- Grade received 100% To pass 70% or higher
- 1.8. Leading Up to DevOps