An Introduction to DevOps

A culture and mindset for collaborating between developers and operations

Course Overview

This course will provide you with immediate understanding of key DevOps terminology to ensure everyone participating in an accelerated/digital enterprise is talking the same language and highlights the needs of DevOps to enable the organizational sustainability in the speed of digital.

This course equips with the latest thinking, principles and practices from the DevOps community based on real life case study of the Phoenix and the Unicorn Project by Gene Kim, the godfather of DevOps, the learners will be leveraging the Three Ways, The Five Ideals and the latest from the State of DevOps Report, Accelerated, Google SRE and DevOps Institute Upskilling reports. You will gain a solid understanding of DevOps, the cultural and professional movement that stresses 2-ways communication, collaboration, integration, and automation to improve the flow of work between software developers and IT operations professionals to enable an organization capability to accelerate.

Course Objective

Upon completion of this course, you will be able to understand the core concept of DevOps under the value stream and the digital product and service development lifecycle, recognize how DevOps terminology could enhance organizational productivity, capability and maturity of digital products and services.

The course will help embed you with appropriate skill and knowledge to:
- DevOps objectives and vocabulary
- Benefits to the business and IT
- Principles and practices including Continuous Integration, Continuous Delivery, testing, security and the Three Ways
- DevOps relationship to Lean, Agile and ITSM
- Collaboration based on improved workflows, communication and feedback loops
- Automation practices including deployment pipelines and DevOps toolchains
- Applying DevOps for the enterprise
- Critical success factors and key performance indicators

Target Student

The primary audiences for this course are as follow:
- Managements and staffs of organizations those required to enhance or enable their business through the needs of properly formed and accelerated digital portfolios which will be able to response to rapid changes, ensure customer satisfaction and time-to-market; to support broader business goals
- Managements and staffs of organizations who interested in realizing the benefit of Lean, AGILE, ITSM as integrated DevOps method to boost the bottom line by enhancing the team collaboration, embed common goal and improve the capability to achieve the target

- Product Owner, Project Manager, SCRUM Master, Project Lead, Project Coordinator, Project Contributor, Developer, IT Operation and IT Service Management
- Individual who interested in Lean, AGILE, ITSM as integrated DevOps method

Course Outline

Day 1:
- What is DevOps?
- DevOps Principles
- DevOps and Other Frameworks
- DevOps Culture
- DevOps Research List
- Organizational Considerations
- DevOps Practices
- Element of DevOps Practices to focus on
  - Continuous Testing, Integration, Delivery, Deployment
  - Site Reliability and Resilience Engineering
  - DevSecOps
  - ChatOps
  - Kanban

Day 2:
- The Principles of Continuous Integrations and Continuous Deployment
- DevOps and ITSM Release and Deployment Management Practice
- Lean, AGILE and ITSM Practice as integrate DevOps culture
- Continuous Testing, Integration and Continuous Deployment and Delivery
- Security and Continuous Delivery
- DevOps Automation Practices and DevOps Toolchains
- Adopting a DevOps Culture
- DevOps Measurement, Metrics & Reporting
- DevOps Transformational Leadership

Course Length:

2 days

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