



DEVOPS BOOTCAMP

This one-day DevOps workshop is loaded with practical real-world information. From the foremost agile development training company, comes a course to move the dial on your organizations' DevOps journey. You will leave this course loaded with knowledge on the available people, processes, culture, and tools for DevOps, ready to begin the selection process for what's right for your company and guidance on the roadmap for your organization in application modernization with DevOps. This class demystifies the fundamental shift from focusing only on the tools or scripting to using DevOps. The focus is on achieving measurably higher time to market & value for organizations of all sizes, applied to technology solutions for business problems.

AUDIENCE

This workshop will be particularly useful for leaders implementing or considering DevOps for their organization including the following:

- Anyone in an IT or Technology-Enabled Business Roles

TOPICS

- Hands-On
- Cloud & Virtualization
- Automation & Scripting
- Configuration management
- Monitoring
- Measurement
- Version control
- Workforce Strategy

WHAT YOU WILL LEARN

After completing this course, the student should be able to:

- Understand the key components; tools, processes, and people required
- Apply the knowledge to improve reliability of build & release processes
- Become literate in the vernacular of DevOps
- Apply technology, people and process to shift left
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PREREQUISITES

A desire to learn how to successfully implement DevOps in your organization.

DURATION

1 day.

Canada

821A Bloor Street West, Toronto, Ontario, M6G 1M1
Toll Free 1 866 206 4644
Email getinfo@webagesolutions.com

United States

744 Yorkway Place, Jenkintown, PA, 19046
Toll Free 1 877 517 6540
Email getinfousa@webagesolutions.com



Outline of WA2543 DevOps Boot Camp Training

CHAPTER 1. WHAT IS DEVOPS

- Dev and Ops Views
- Leading By Example ...
- What is DevOps?
- More DevOps Definitions
- DevOps and Software Delivery Life Cycle
- Main DevOps' Objectives
- The Term "DevOps" is Evolving!
- Infrastructure as Code
- Agile IT in the Cloud
- DevOps on the Cloud
- Prerequisites for DevOps Success
- Alignment with the Business Needs
- Collaborative Development
- Continuous Testing and Integration
- Continuous Release and Deployment
- Continuous Application Monitoring
- Benefits of DevOps
- What is Involved in DevOps
- Summary

CHAPTER 2. CONFIGURATION MANAGEMENT

- Why is configuration management key to DevOps success?
- What is configuration management
- Terminology
- Automation tool comparison
- Configuration management tools
- Setting up the environment
- Deployment
- Cloud integration
- Summary

CHAPTER 3. VERSION CONTROL

- What is Distributed Version Control
- History of Version Control
- Collaboration
- Communication and Sharing
- Auditing and Tracking
- Release Engineering, Maintenance, SDLC
- Diagnostics
- Integrating Version Control into Jenkins
- What is Git
- Git's Design Goals
- Summary

CHAPTER 5. CONTINUOUS INTEGRATION & DELIVERY (CI/CD)

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- What does continuous delivery mean?
- What is continuous integration?
- Project methodologies
- Measuring your organization maturity
- Tool selection
- IT organization structure
- Business continuity
- Supportability and sustainability
- Summary

CHAPTER 6. CONTINUOUS CODE QUALITY

- Continuous Code Quality
- What is SonarQube
- SonarQube - Benefits
- Infosec
- Performance
- Seven Axes of Quality
- Potential Bugs
- Tests
- Comments and Duplication
- Architecture and Design
- Complexity
- Summary

LAB EXERCISES

Lab 1. Version Control - Git

Lab 2. Continuous Integration - Jenkins

Lab 3. Continuous Code Quality - SonarQube

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