



DevOps Fundamentals

TRAINING

Navigate the challenging journey of
DevOps adoption in the Public Sector



Facilitated by:
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Coach2Reach

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Global adoption of DevOps practices is projected to yield an astonishing \$2.2 trillion in economic value by 2030. This vast economic value comprises substantial cost savings and heightened operational efficiency across various. Furthermore, organizations that embrace DevOps, can experience a 22% boost in software delivery performance and a 50% reduction in time to market. These statistics highlight the immense potential of DevOps to revolutionize government processes and drive significant economic growth.

Government bodies across the world are increasingly acknowledging the significance of DevOps in achieving their digital goal. By equipping public sector employees with foundational DevOps skills, nations can foster digital innovation, enhance service delivery, and promote a culture of continuous improvement, ensuring their continued leadership in digital governance.

This training has been designed to provide technology specialists in the public sector with the insights to effectively integrate DevOps methodologies into their operations.

The course will equip participants with the knowledge and skills required to implement DevOps concepts while ensuring compliance with government regulations. By bridging this gap and providing practical guidance, the program will enable participants to overcome these obstacles and reap the benefits of DevOps in the government sector.

Who Attends

- **DevOps Engineer**
- **IT Project Manager**
- **Service Desk**
- **Support Analyst**
- **Database Administrator**
- **Quality Assurance**
- **Test Engineer**
- **Infrastructure Manager**
- **Compliance and Regulatory Specialists**

Learning Objectives

- **Gain hands-on experience with a variety of DevOps tools and learn how to choose, configure, and use them effectively in virtual environments, enabling them to automate and optimize software development and delivery processes.**
- **Develop the skills to work collaboratively with distributed teams, employing virtual communication and project management tools to enhance productivity, streamline communication, and maintain cohesion in a virtual DevOps environment.**
- **Become proficient in setting up and managing CI/CD pipelines in virtual environments, facilitating automated code integration, testing, and deployment, resulting in faster, more reliable software releases.**
- **Understand the principles of Infrastructure as Code and gain practical experience in using tools like Terraform or Ansible to create and manage virtualized infrastructure, promoting consistency and scalability in their systems.**

Why Attend

- **Connect with fellow professionals who share the same issues and experiences.**
- **Learn from the comfort of your own space, which is especially important in today's remote work environment.**
- **Stay in the loop with the latest industry trends and best practices.**
- **Enhance your skills, vital for advancing your career in the public sector.**
- **Discover practical solutions to real-world problems encountered in government work.**
- **Acquire tools to make government processes and service delivery more efficient.**

Meet the Trainer



ZEESHAN AMJAD
Professional Trainer
Coach2Reach

Zeeshan Amjad, Professional Trainer at Coach2Reach is a seasoned technology and digital transformation leader with over 23 years in corporate IT. He specializes in enterprise architecture, development, and cloud technologies for Fortune 500 companies across diverse industries. His focuses on delivering large-scale Hybrid-Cloud applications, leveraging expertise in DevSecOps, Infrastructure as Code, and CI/CD/CM.

As a Scaled Agile and Kanban Trainer and Consultant, Zeeshan excels in agile coaching, mentoring, and teaching, guiding teams through conception to execution. A published author in Best Agile Article, he emphasizes enterprise agility, concentrating on strategy and transformation across business, people, processes, and technology. Security is paramount in his approach, seamlessly integrating DevSecOps principles throughout the development lifecycle. His commitment to cybersecurity best practices reflects his dedication to delivering transformative solutions and instilling a culture of continuous enhancement within teams and organizations.

Preparation

This workshop is highly interactive with group activities and discussions throughout. Come prepared with some current challenges you face in your organisation.

To participate you'll need:

- A computer with camera and microphone
- Strong internet connection
- Quiet well-lit space
- Current challenges you are facing



10:00am Opening Remarks

- Welcome
- Introductions
- Overview and Setting Expectations

Module One: Introduction and Principles

10:30am Introduction to DevOps and the Three Ways

- First Way: The Principles of Flow
- Second Way: The Principles of Feedback
- Third Way: The Principles of Continual Learning and Exploration

11:45am CALMS DevOps Principles

- Culture
- Automation
- Lean
- Measurement
- Sharing

12:30pm Break

Module Two: Strategies and Integration

1:00pm Lean Thinking and Value Stream

- Lean Principles
- Introduction to Value Stream
- Difference between Process Mapping and Value Stream
- Metric and Measurement in Value Stream

1:45pm Continuous Integration

- Automated Testing
- Failure and Rollback Strategies
- Principles of Continuous Integration
- Practices of Continuous Integration

2:30pm End of Day 1

10:00am Welcome and Recap

Module Three: Optimizing Software Delivery

10:15am Continuous Delivery

- Principles of Continuous Delivery
- Feature toggling
- Blue-Green Deployment
- Canary Release

11:00am Infrastructure as Code

- Automation and scalability
- Parametrization and variable in IaC
- Secrets Management in IaC
- Comparison of Terraform, Ansible and Chef

11:45pm Break

Module Four: Metrics, Measurements and Continuous Improvement

12:15pm Metrics and Measurement in DevOps

- KPI in DevOps
- DORA Metrics
- Security Metrics in DevOps

1:00pm Continuous Learning and Improvement in DevOps

- Learning Organization
- Site Reliability Engineering (SRE)
- Security in DevOps, (DevSecOps)
- Chaos Engineering

2:15pm Closing Remarks

2:30pm End of Training