



# DevSecOps 2 Days

## Automating Security in DevOps

**Two Days hands-on training to automate security into a fast-paced DevOps environment using various open-source tools and scripts.**

Modern enterprises are implementing the technical and cultural changes required to embrace DevOps methodology by introducing practices such as Continuous Integration (CI), Continuous Delivery (CD), Continuous Monitoring (CM) and Infrastructure as Code (IaC). DevSecOps extends DevOps by introducing security in each of these practices giving a certain level of security assurance in the final product. In this training, we will demonstrate using our state-of-the-art DevSecOps Lab as to how to inject security in CI, CD, CM and IaC.

Every delegate will be provided a personalized cloud setup of our DevSecOps lab for hands-on implementation of various security tools in the CI/CD/CM pipeline. Attendees will receive the DevSecOps Lab built using Vagrant and Ansible comprising the same tools and scripts as a takeaway.

A Short preview of our course is available for viewing here [https://www.youtube.com/watch?v=\\_jGCZ4NPDqY](https://www.youtube.com/watch?v=_jGCZ4NPDqY)

## Delegates Will Receive

Access to cloud DevSecOps-Lab for 24 hours post end of the training for further hands-on practice to each delegate.

The attendees will also receive a DevSecOps-Lab VM (designed by the NotSoSecure team) containing all the code, scripts and tools that are used for building the entire DevSecOps pipeline.

## Delegates Should Bring

- Any laptop with a browser
- In order to access our labs you'll need an unfiltered direct connection to the internet. Our labs will not be accessible from behind a proxy or a firewalled internet connection

## Course Objectives

- **Create a security culture/mindset amongst the already integrated "DevOps" team.**
- **Find and fix security bugs as early in SDLC as possible**
- **Build a secure by default infrastructure by automating security**
- **Build a system with continuous security monitoring**

## Key Takeaways

- Understand how to tackle security issues in a fast-moving DevOps environment
- Identify tools/solutions and develop processes to create a secure by default infrastructure
- In-depth understanding of various tools that can be used for security automation
- Utilize the integration scripts and tools provided in the DevSecOps Lab to create your own DevSecOps pipeline

## Delegate Requirements

Anybody with a background in IT or related to software development whether a developer or a manager can attend this course to get an insight about DevOps and DevSecOps.



**NotSoSecure** part of  
**claranet cyber security**

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# DevSecOps 2 Days

## Automating Security in DevOps *Continued*

## Course Contents

### Lab Setup

- Online Lab Setup
- Offline Lab Instructions

### Introduction to DevOps

- What is DevOps?

### Introduction to DevSecOps

- Challenges for Security in DevOps
- DevSecOps – Why, What and How?
- Vulnerability Management

### Continuous Integration

- Pre-Commit Hooks
- Secrets Management

### Continuous Delivery

- Software Composition Analysis (SCA)
- Static Analysis Security Testing (SAST)
- Dynamic Analysis Security Testing (DAST)

### Infrastructure As Code

- Vulnerability Assessment (VA)
- Container Security (CS)
- Compliance as Code (CaC)

### Continuous Monitoring

- Alerting and Monitoring
- Introduction to F-ELK

### DevSecOps in AWS

- DevOps on Cloud Native AWS
- AWS Threat Landscape
- DevSecOps in Cloud Native AWS

### DevSecOps Challenges and Enablers

- Challenges with DevSecOps
- Building DevSecOps Culture
- Security Champions
- Case Studies
- Where do we Begin?
- DevSecOps Maturity Model

## Who Should Attend

DevOps engineers, security and solutions architects, system administrators will also strongly benefit from this course as it'll give them a holistic approach towards application security.



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