DEVSECOPS

DevOps:

Development and Operations, is a collaborative approach to software development and IT operations that emphasizes communication, integration, and automation between development teams (Dev) and IT operations teams (Ops).

Goal: primary goal of DevOps is to shorten the software development life cycle, increase deployment frequency, and deliver applications more reliably and efficiently.

Key aspects of DevOps include:

Collaboration

Automation

CI/CD (Continuous Integration / Continuous Deployment / Continuous Delivery)

Infrastructure as Code (IaC)

Monitoring and Feedback

Version Control

Microservices and Containers

Resilience and Reliability

Continuous Learning and Improvement

DevSecOps Fundamentals

DEVSECOPS

DevSecOps is a software development approach that **integrates Development (Dev), Security (Sec), and Operations (Ops)** into a single, cohesive and continuous process. The primary objective of DevSecOps is to infuse security practices and principles throughout the entire software development lifecycle, from the initial design and development stages to deployment and ongoing maintenance.

Automation
Continuous Integration and Continuous Deployment (CI/CD)
Collaboration
Shift-Left Approach
Continuous Monitoring and Incident Response
Infrastructure as Code (IaC) Security
Security Culture and Awareness

DevSecOps Fundamentals

DevOps VS DevSecOps Pipeline

Cloning Git	Build-and-Tag	Post-to- dcfckerhub	Pull-image- server
43s 3s	31s	24s	36s
	29s	25s	46s
3s	29s	25s	



DevSecOps Fundamentals