Audience

- This course is designed for Software Developers, DevOps, Security Team, QA , Infra ,Build & release, Freshers with a bit of scripting and knowledge of software terms, tools & technologies.

Expectation

- Knowledge and hands on with DevSecOps

- securing CI/CD pipeline.

- Rare skill in market, which may land you with quite good offer and an awesome opportunity to the upcoming field.

- It may be the next hype similar to DevOps which came around 5-6 years back.

DevSecOps : Securing CI/CD

- It is about integrating security in the CI/CD pipeline which helps minimizing threats/vulnerabilities with every code check in.

- Automation of security part.

- Goal here is to bridge not only the traditional gaps between the Dev & Ops team, but also to bridge the gap between Dev , Sec & Ops team.

DevOps Vs DevSecOps

- Traditional Build Phases

- Future Build phases

Cloning Git	SAST	Build-and-Tag	IMAGE-VULNERABILITY-TEST	Post-to-dockerhub	Pull-image-server	DAST
6s	28s	30s	38s	1min 25s	18s	50s
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Why DevSecOps

- Companies implementing DevSecOps address vulnerabilities faster than others

- Higher speed and agility : security teams

- Quality and compliance assurance.

- Implement, Educate & Follow best practices for secure coding and infrastructure provisioning/deployment/configuration.

Approaching DevSecOps

- Security training : How to code securely.

- Regular code analysis with CI/CD pipeline.

- Regular Compliance monitoring

- Include SAST, DAST phases in pipeline.

- Define criteria for security phases to pass/fail builds.

- Include security issues as part of sprints.

DevSecOps : upcoming hot buzz

- As DevOps & agile enables speed, it does comes with risk as well.

- Frequent code changes, expanding attack surfaces, day by day growing number of hacks is building the market for DevSecOps.

- 80% of threats & vulnerabilities can be tackled if we enable DevSecOps(20% effort) : Famous 80/20 rules or "Pareto principle"
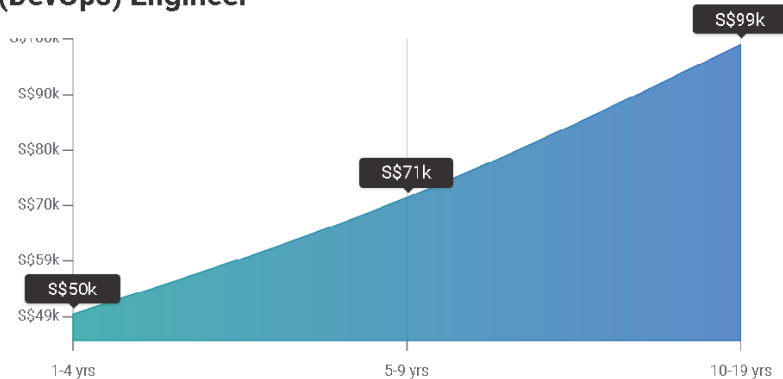
Future Scope: DevSecOps

DevOps & Security salary graph

Skills in Amazon Web Services (AWS), Development Operations (DevOps), Linux and Python are correlated to pay that is above average.

Pay by Experience Level for Development Operations (DevOps) Engineer

Skills in Cyber Security, IT Security & Infrastructure, Security Policies and Procedures and Security Risk Management are correlated to pay that is above average. Skills that pay less than market rate include Computer Security.

Pay by Experience Level for Information Security Analyst
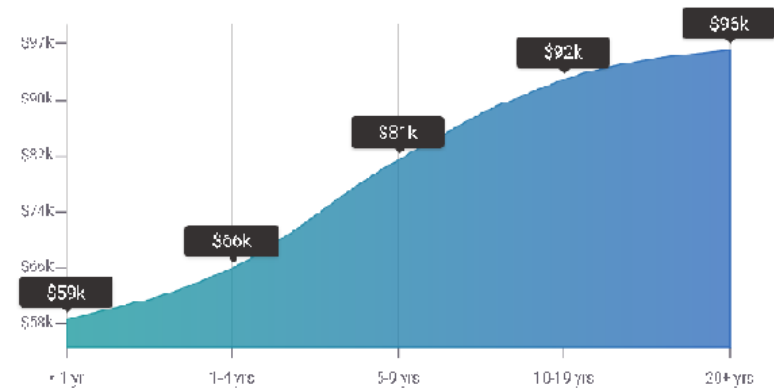
Sources :
https://www.payscale.com/research/SG/Job=Development_Operations_(DevOps)_Enginee
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