DevOps Security as Career

Sabin Ranjit

NepSecurity Meetup

6-19-2016

Agenda

- Quickly know DevOps
- Security vs DevOps
- DevOps Security
- Career move

About me

Sabin Ranjit @thinksabin

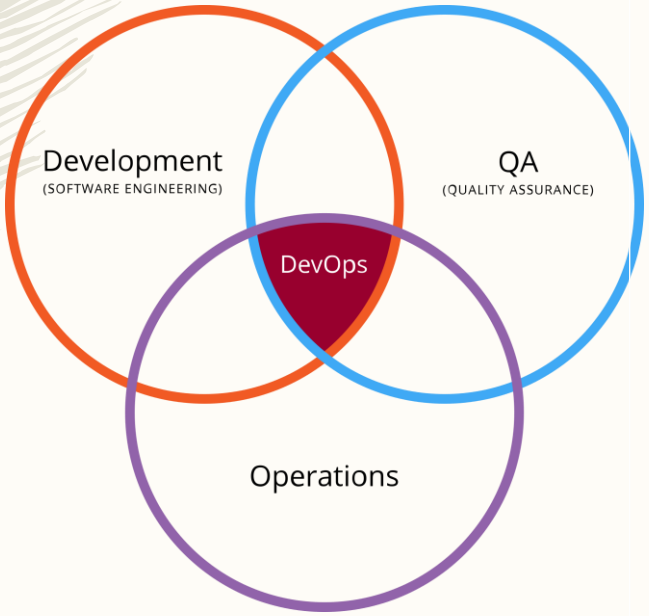
Handsome guy :P

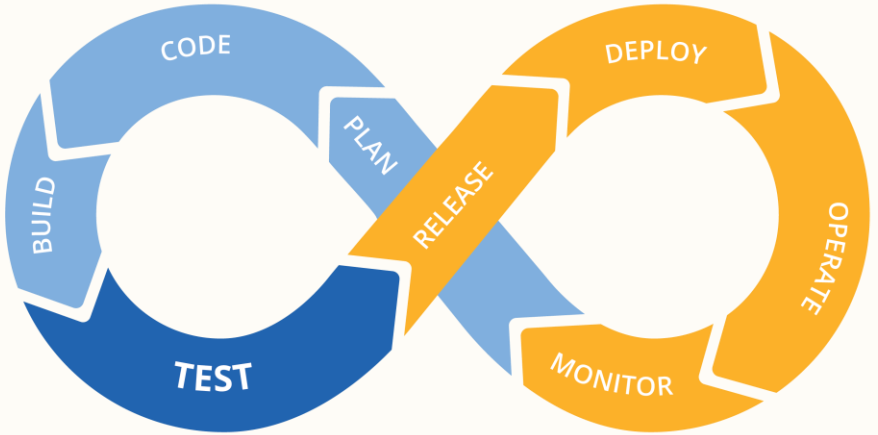
Working - as Senior DevOps / Security Engineer
@ lftechnology.com

Loves to - code, find flaws, write firewall/ ids rules,
automate stuffs,
handle incidents, what not.

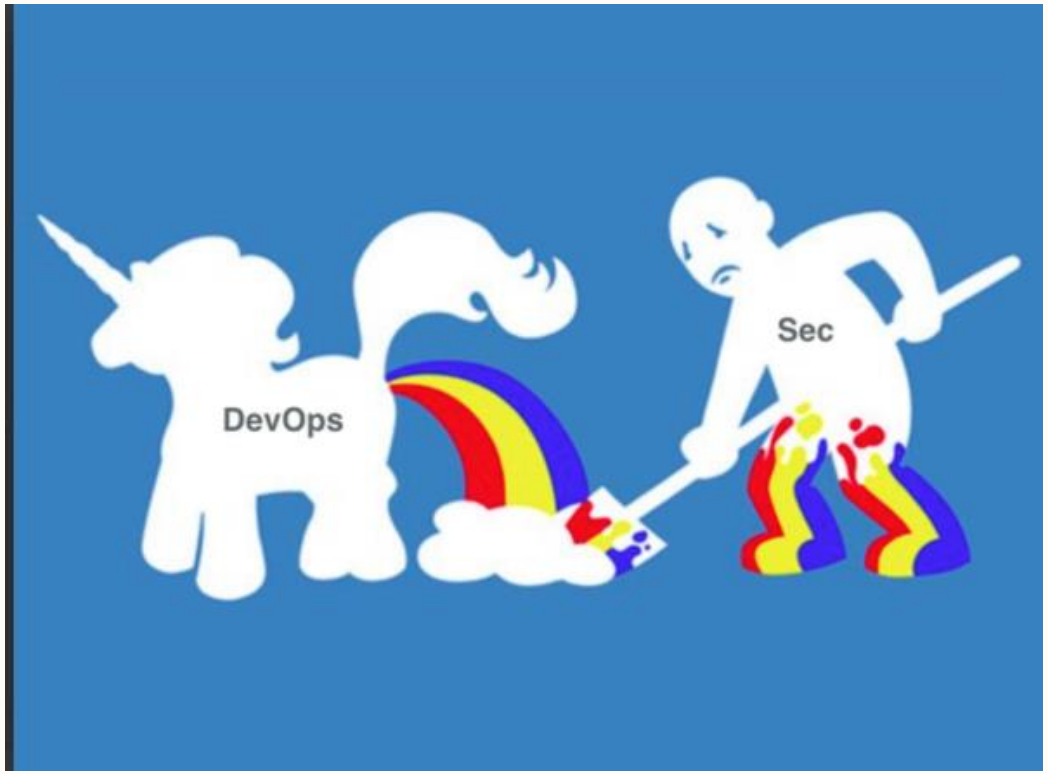
DevOps?

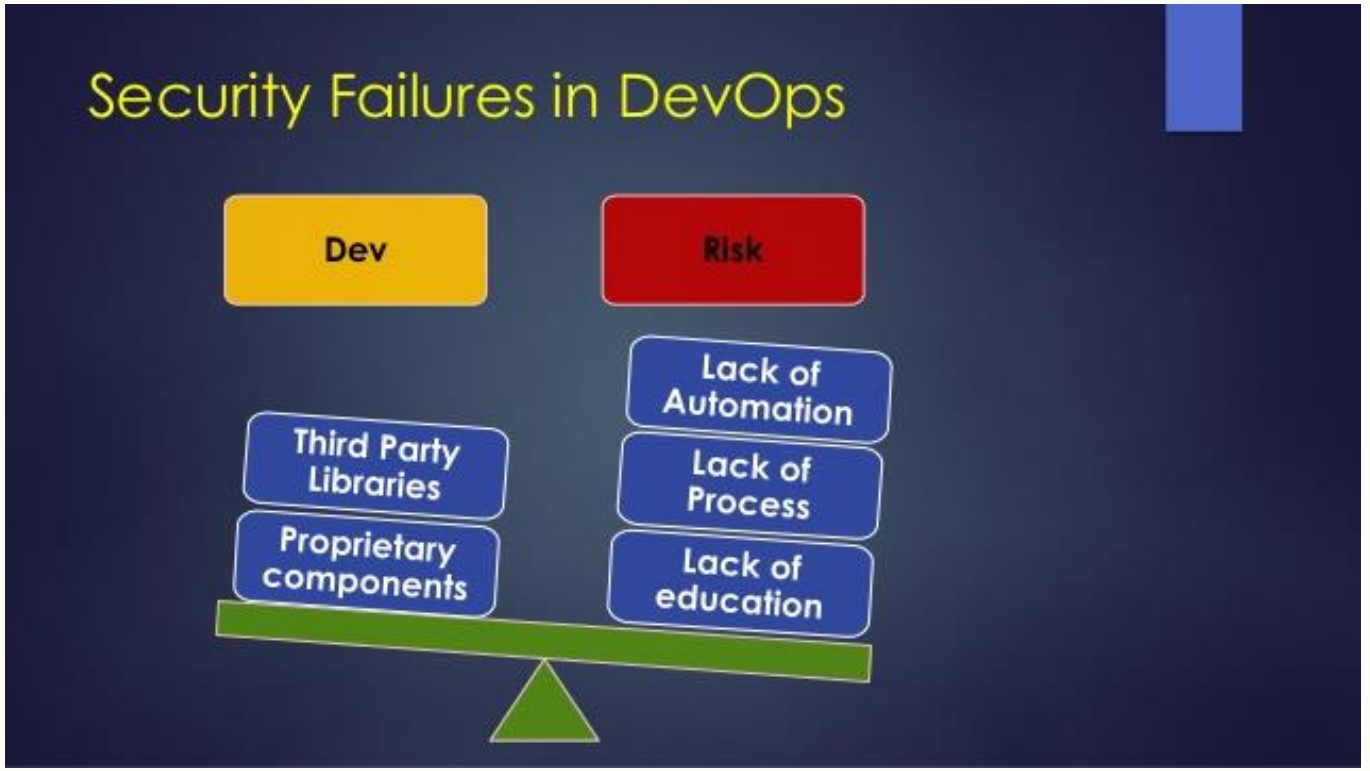
- Its culture, initiative to bring development and operation team together
- Bridging dev and ops team
- Automates tons of stuffs
- Helps make profit by bringing code quickly into production
- And tons of other stuffs


Development
(SOFTWARE ENGINEERING)
QA
(QUALITY ASSURANCE)
DevOps
Operations


CODE
PLAN
BUILD
RELEASE
TEST
DEPLOY
OPERATE
MONITOR

Security and Devops




Security Failures in DevOps
Dev
Risk
Third Party Libraries
Proprietary components
Lack of Automation
Lack of Process
Lack of education

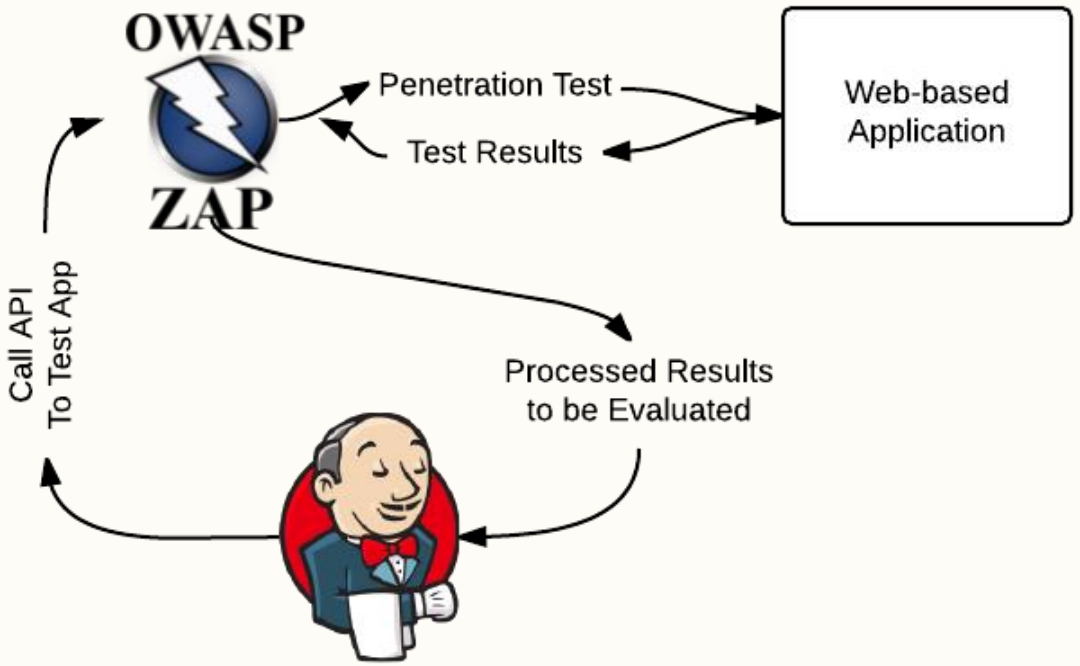
DevOps Security

Security Review of Requirements & Design Documents
Security Static Code Analysis Results Review
Dynamic Security Analysis
Penetration testing including Fuzz Testing
Third Party Components Review
QA Role

Arsenal

- DevOps
  - Git / SVN, Chef/ Puppet, Jenkins/ Travis, etc.
  - Other CI / CD stuffs + code analysis + system administration tools
- Security
  - Burp Suits, OWASP ZAP, Nmap, OpenVAS, Metasploit, Drozer, etc.
  - Other security audit tools + distros (kali/ blackarch /..) + security best practices + security updates

Simple workout



Got Tasks

- Got to patch SSL/TLS package, upgrade kernel, deploy new custom web application firewall rules in 200 servers. -_-

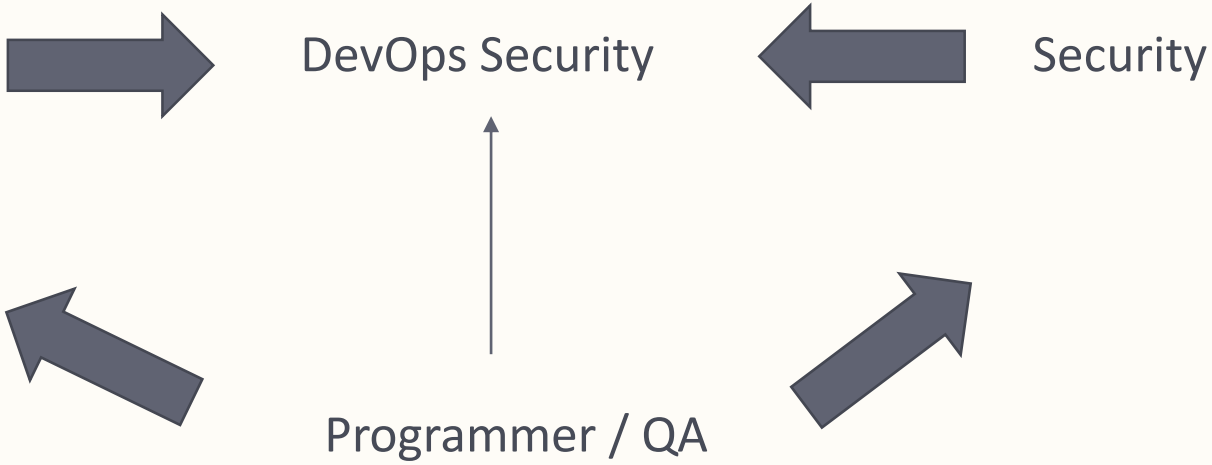
Cant fall asleep, Freddy will kill

Cant leave server vulnerable

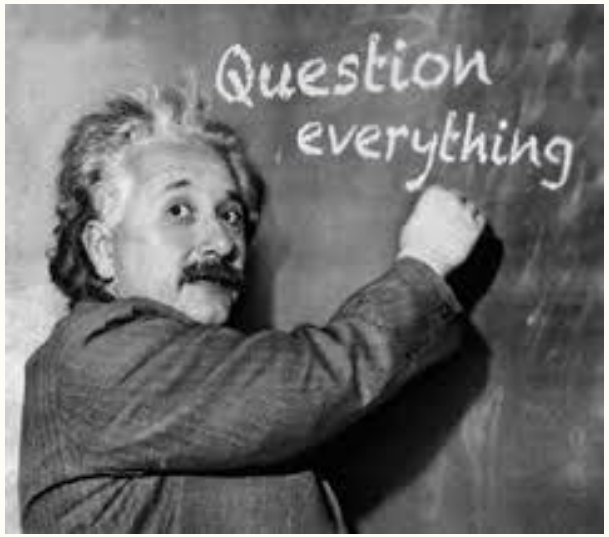
- Solution
  - Chef + security
    - *Continuous, automated,*
  - Freddy wont kill anymore

Career way

- Devops



- Really effective for small companies
  - Who don’t want separate IT security department
- Different area of learning opportunities
  - Well, its not always about Penetration Testing, WAPT, Security policies
- Its all about you
  - We cant expertise everything, got to make choices
  - Pipe out the learning curve


Question
everything

This is
my
thank you
dance!