



An Empirical Study on Culture, Automation, Measurement, and Sharing of DevSecOps



Nora Tomas, Jingyue Li, Huang Huang

Speaker: Huang Huang

2019.06.04



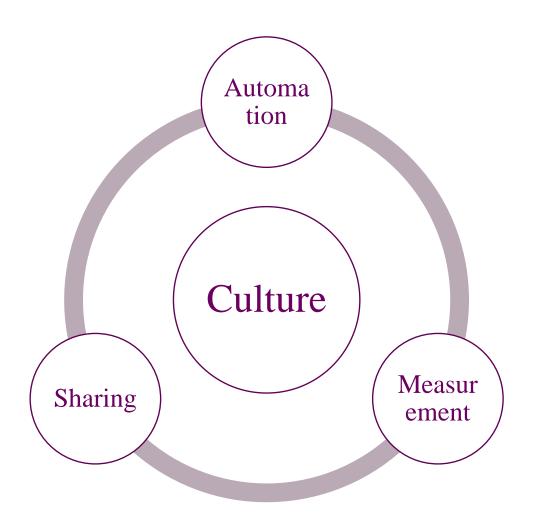


- Background
- Methods

CONTENTS

- > Results
- Discussion
- Conclusion and Future Work

Background – CAMS of DevOps







Methods – Industrial Interviews



Two interviewers conducted 6 semi-structured interviews

Three iterations of coding





Methods – Industrial Interviews

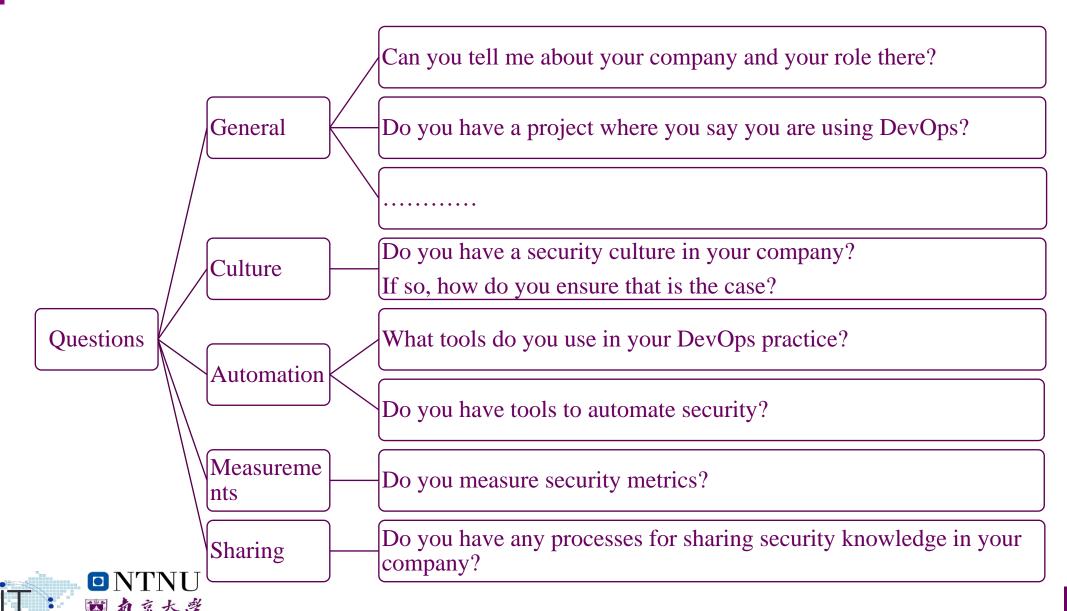
INTERVIEW SUBJECT DETAILS

	Role	No. of Employees	Company Product	Company Type
Subject A	Platform Tech Lead	200	SaaS for Smart Cities	Private
Subject B	Software Engineer	11000	Software Security Services	Private
Subject C	Software Engineer	1300	Consulting	Private, but in a public sector project
Subject D	Software Engineer	30	Platform for Web Sites	Private
Subject E	Software/Data Engineer	40	Mobile App	Private
Subject F	Security Architect/ Manager	44000	Consulting	Private

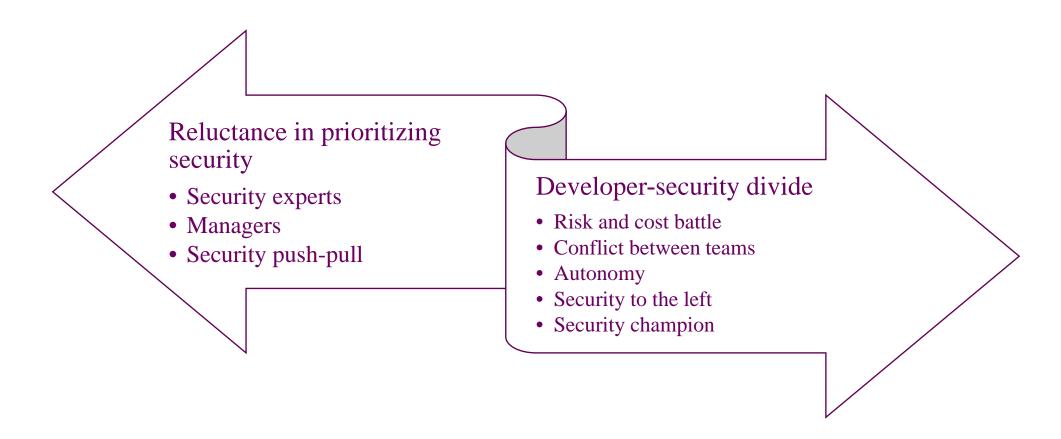




Methods – Industrial Interviews



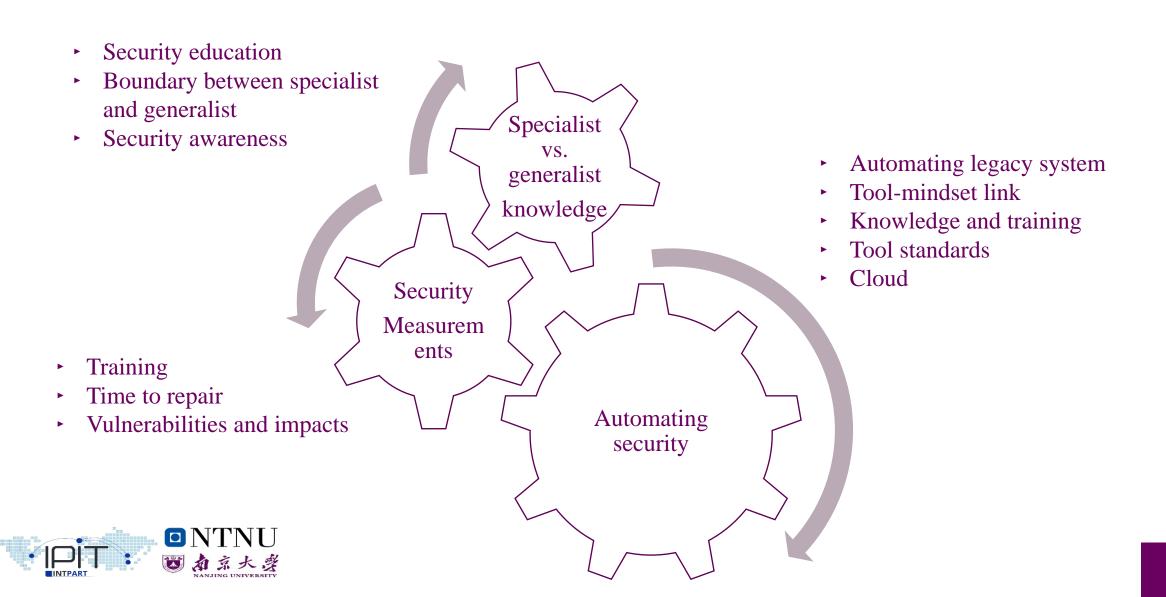
Results – Culture





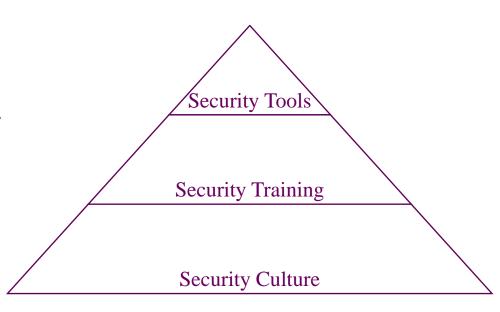


Results – Automation, Measurement, and Sharing



Discussion

- DevSecOps definition
 - What is the relationship between DevOps and security?
 - What role does DevSecOps play in different companies?
- DevSecOps CAMS
 - Security culture is the goal and cornerstone;
 - Knowledge sharing is an interconnecting link;
 - Automation tools are important means in specific tasks.
- Comparison with the state of DevOps
 - Security culture is still not applied;
 - Tools are still not enough;
 - Measurements are still too few;
 - Targeted knowledge sharing is less.





Conclusion and Future Work

Conclusion:

- Results of our study reflect the state of the practices of DevSecOps in Norway;
- We give detailed insights on possible issues and identify some corresponding solutions.

> Future Work

- More industrial interviews about DevSecOps;
- A case study on DevSecOps practice;
- A comparison study on DevSecOps between different cultures.

An Empirical Study on Culture, Automation, Measurement, and Sharing of DevSecOps

Nora Tomas, Jingyue Li, Huang Huang

THANKS

Speaker: Huang Huang MG1832003@smail.nju.edu.cn 2019.06.04

