aursec - Master a blockchain approach to securing software packages/

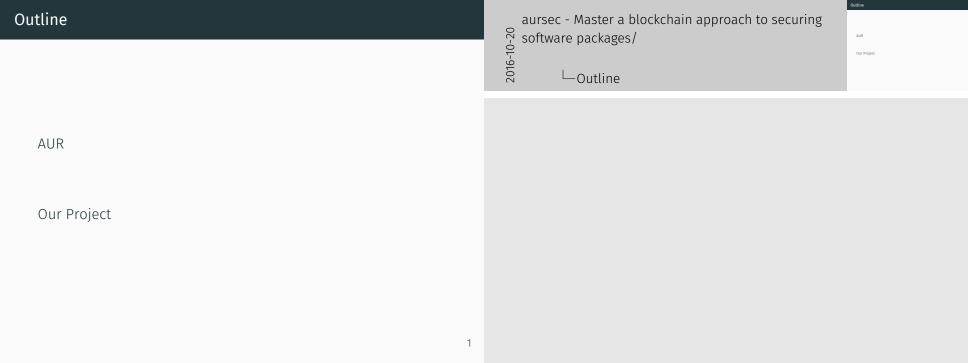
Lukas Krismer & Bennett Piater October 20, 2016

Universität Innsbruck - QE - Christian Sillaber

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AUR

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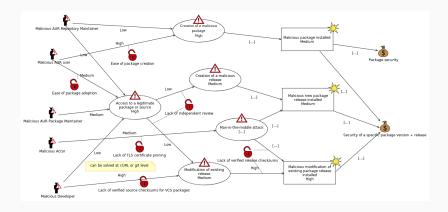
- aursec Master a blockchain approach to securing software packages/ ∟AUR
- AUR=Arch Linux Repository
- 3 different Requests voting system

-AUR

Orphan, Deletion, Merge

- · AUR=Arch Linux Repository
- Contains package descriptions (PKGBUILDs)
- everybody can upload PKBUILDs
- · 3 different Requests
- voting system

Threats





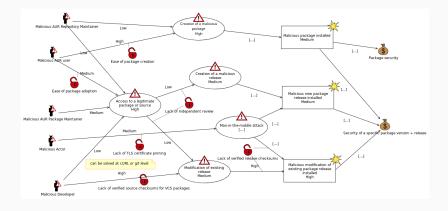


Our Project

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—Our Project

Our Project

Covered Threats

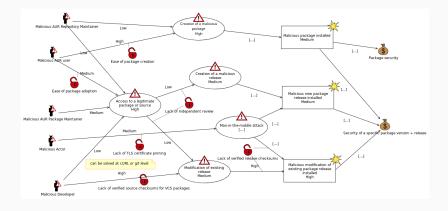


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Covered Threats



Covered Threats

Covered Threats



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Covered Threats



Covered Threats

Basic Workflow

5

- Ethereum program - libary

arch-package
 web- and/or CLI-Interface
 integration

- Ethereum program
- libary
- arch-package
- web- and/or CLI-Interface
- integration

2016-10-20

Schedule

· 25.10 Prototype hashing	В
• 08.11 Inital-Presentation	L
• 15.11 Libary-prototyp without blockchain-backend	B/L
• 15.11 Bash-API for the blockchain	L
· 30.11 Solidity-program finished	В
· 08.12 unified local libary for development	L
• 08.12 runnable server with ethereum-node	B/L
· 15.12 libary-backend	L
• 20.12 contrib: rudimentary pre-build-hooks in aurutil	s B

aursec - Master a blockchain approach to securing · 25.10 Prototype hashing - 08.11 Inital-Presentation 2016-10-20 software packages/ └─Our Project -Schedule

- 15.11 Libary-prototyp without blockchain-backend B/L 30.11 Solidity-program finished - 08.12 unified local libary for development - 08.12 runnable server with ethereum-node

· 20.12 contrib: rudimentary pre-build-hooks in aurutils B

Schedule

•	10.01 contrib: TLS-public-key-pinning in aurutils	
	10.01 configuration and trust-cutoff	
	15.01 testing: integration in aurutils	
	15.02 arch-package inc. private blockchain	
•	01.03 finish: libary and aurutils-Hook	
•	01.04 finish: Web- and/or CLI-Interface	
	15.04 draft paper	
•	??.05 finish: paper	
	??.05 End-Presentation	

aursec - Master a blockchain approach to securing software packages/ └─Our Project -Schedule

· 10.01 configuration and trust-cutoff · 15.01 testing: integration in aurutils 15.02 arch-package inc. private blockchain · 01.03 finish: libary and aurutils-Hook

· 10.01 contrib: TLS-public-key-pinning in aurutils

- ??.05 finish: paper · ??.05 End-Presentation

2016-10-20