aursec - Master a blockchain approach to securing software packages

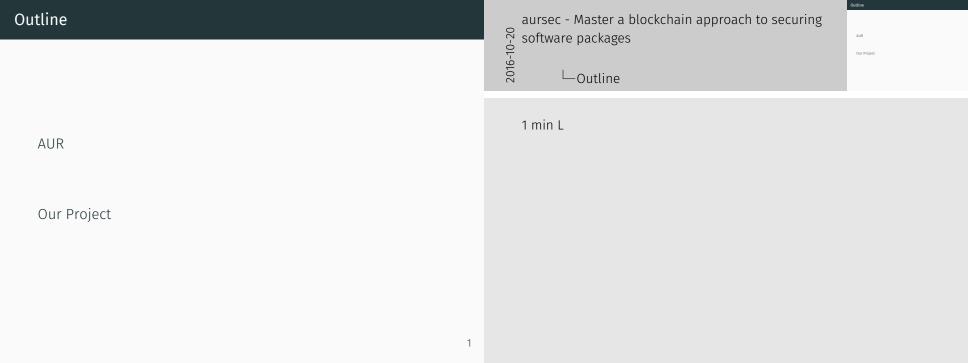
Lukas Krismer & Bennett Piater October 20, 2016

Universität Innsbruck - QE - Christian Sillaber

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as Krismer & Bennett Plater ober 20, 2016 enität Innsbruck - QE - Christian Sillab



AUR

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—AUR

AUR

everybody can upload PKE
 3 different Requests
 voting system

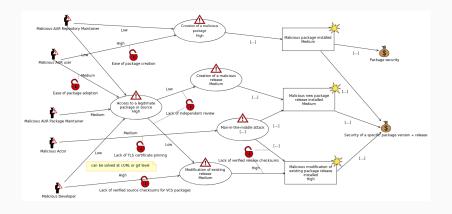
· AUR=Arch Linux Repository

- Contains package descriptions (PKGBUILDs)
- everybody can upload PKBUILDs
- · 3 different Requests
- voting system

2min L Orphan,Deletion,Merge

-AUR

Threats





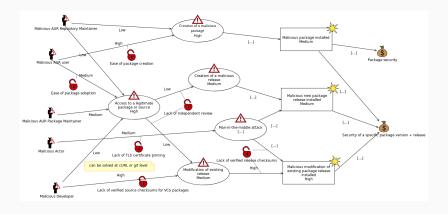
2 min B

Our Project

aursec - Master a blockchain approach to securing
software packages
Our Project

Our	

Covered Threats

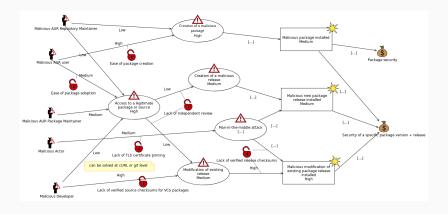


aursec - Master a blockchain approach to securing software packages
Of Our Project
Covered Threats

Covered Threats

1 min L

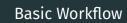
Covered Threats



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Of Our Project
Covered Threats

Covered Threats

1 min L



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Or Our Project

Basic Workflow

Basic Workflow

3 min

5

- └─Our Project
- 2 min B

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

2016-10-20

Schedule

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

aursec - Master a blockchain approach to securing

software packages

Our Project

aursec - Master a blockchain approach to securing

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201 Soliding-program finished
 302 million local bilary for development
 402 million local bilary for development
 402 million local bilary for development
 502 bilary-backend
 402 certefix redirentary pre-build-frooks in aurusits

2 min B

-Schedule

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

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—Our Project

ation and trust-cutoff ntegration in aurutils kage inc. private blockchain pary and aurutils-Hook eb- and/or CLI-Interface

15.02 arch-package inc. private blockcha 01.03 finish: libary and aurutils-Hook 01.04 finish: Web- and/or CLI-Interface 15.04 draft paper

15.04 draft paper
 ??.05 finish: paper
 ??.05 End-Presentatio

-Schedule

2 min B

2016-10-

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