DevSecCon

Automated DevSecOps infrastructure deployment
recipes to secure your DevOps tool chain

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About me

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About me

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Marrakech. Morocco

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Atlas Mountains and Three Valleys. Morocco

About me

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"I AM A NICE SECURITY PROFESSIONAL, NOT MINDELESS VULNERABILITY SPEWING MACHINE. IF I AM TO CHANGE THIS IMAGE, I MUST FIRST CHANGE MYSELF.

DEVELOPERS ARE FRIENDS, NOT FOOLS."

- Bruce, Aaron and Matt

AST challenges

- Communication : provide metrics (and evidence) about the security level of each/every stage/sprint of the application's life cycle.
- Integration : appropriate (and Efficient) investment for application security (Improvise, adapt, overcome !)
- Ease of use : the ability to transform the current pipeline without forcing the developers to change the way they work (or the tools they used).
- Accuracy : continuously work on filtering FP and writing custom scanning rules
- Speed : automate everything ! be FAST (and FURIOUIS) !

Securing your pipeline : agile approach

1 Identifying the app sec requirements and environment

2 Assessing application security risks

3 Define your app. sec. controls and associated sec. Gates

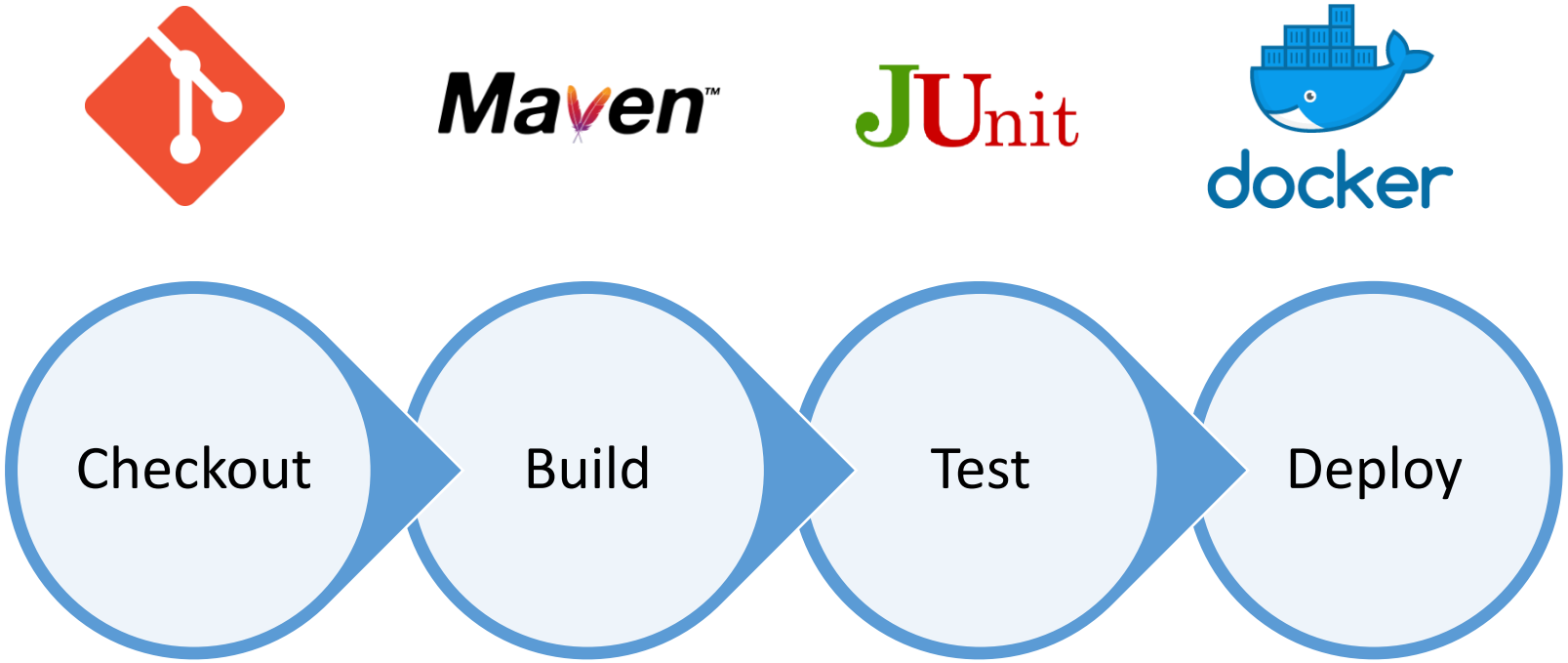
5 Filter FP, re configure scanning tool

4 Convert Scanning output to training topics

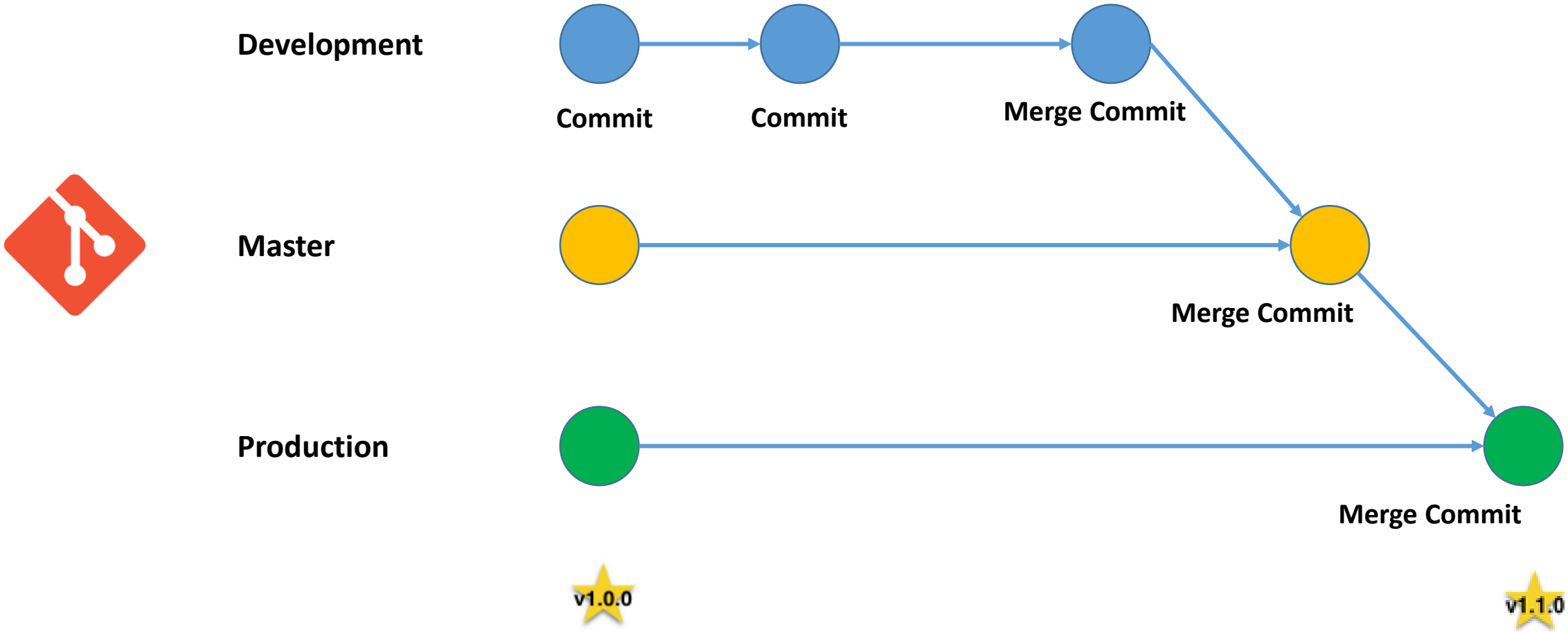
6 Working increment of the sec pipeline

Sprint

Our initial pipeline (1/2)



Our initial pipeline (2/2)



Our recipe to build a secure pipeline :p

INGREDIENTS

- Static code analysis tool (SAST)
- Web application scanner tool (DAST)
- Environment compliance check
- Vulnerability management system

OPTIONAL :

- Continuous security monitoring
- Redteaming exercices
- Secret management

TOOLS NEEDED

Exsiting DevOps Tools

SAST DAST MAST IAST

TIME TO PREPARE

It depends !

DIRECTIONS

See the following slides

Task 1 : Static code analysis tool

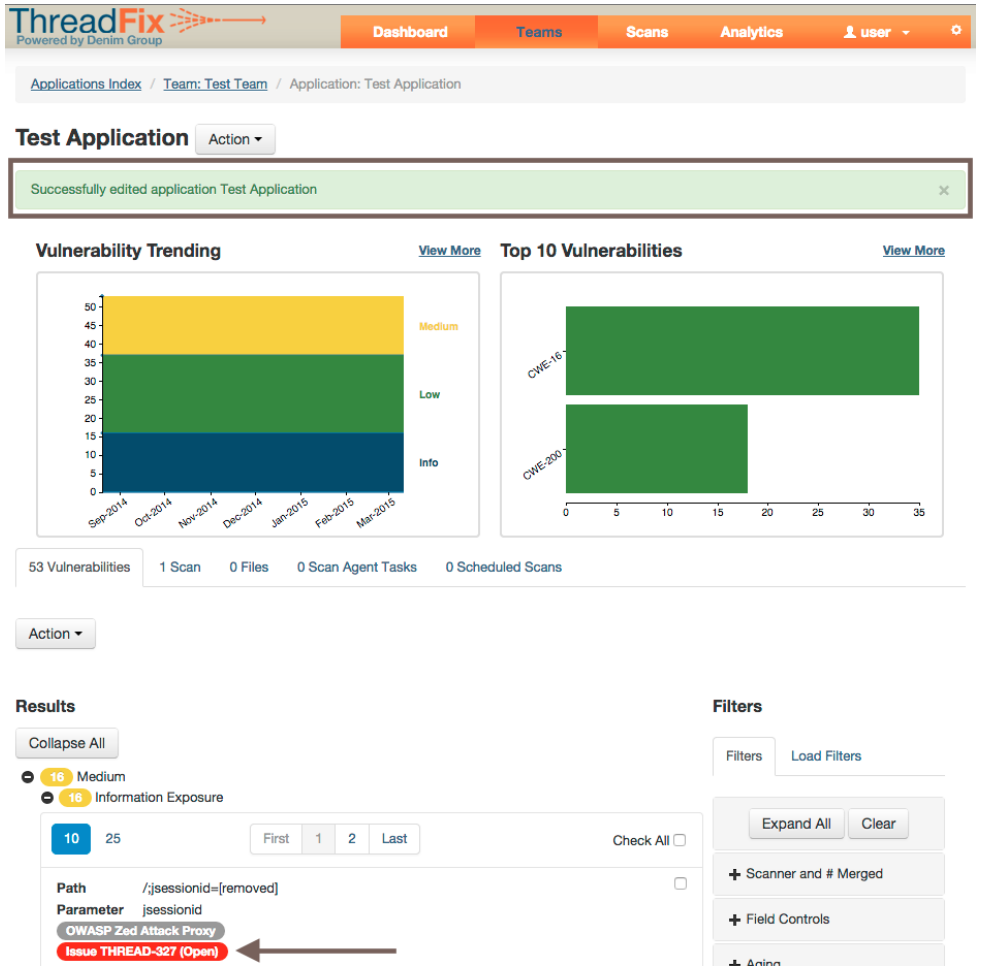
Scanning once is good. Scanning daily is better !

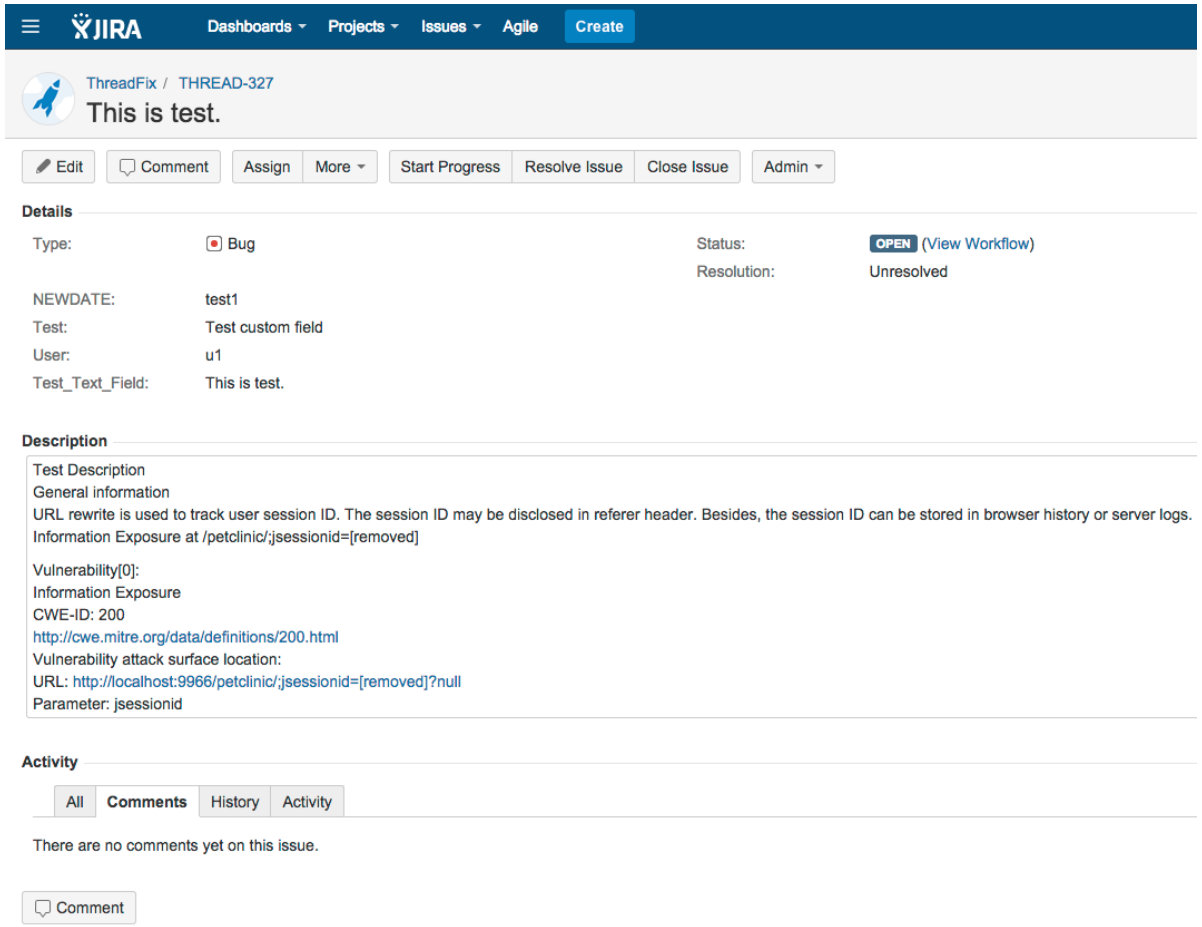
Task 2 : Web application scanner tool

Task 3 : Inspect Your Infrastructure

Task 4 : Vunerability management system

Task 4 : Vunerability management system





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THANKS!

Any questions?

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