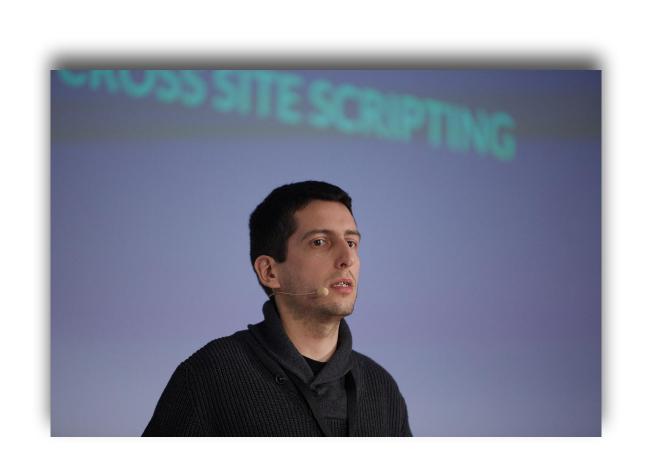
DevSecOps : de la sécurité dans mon DevOps

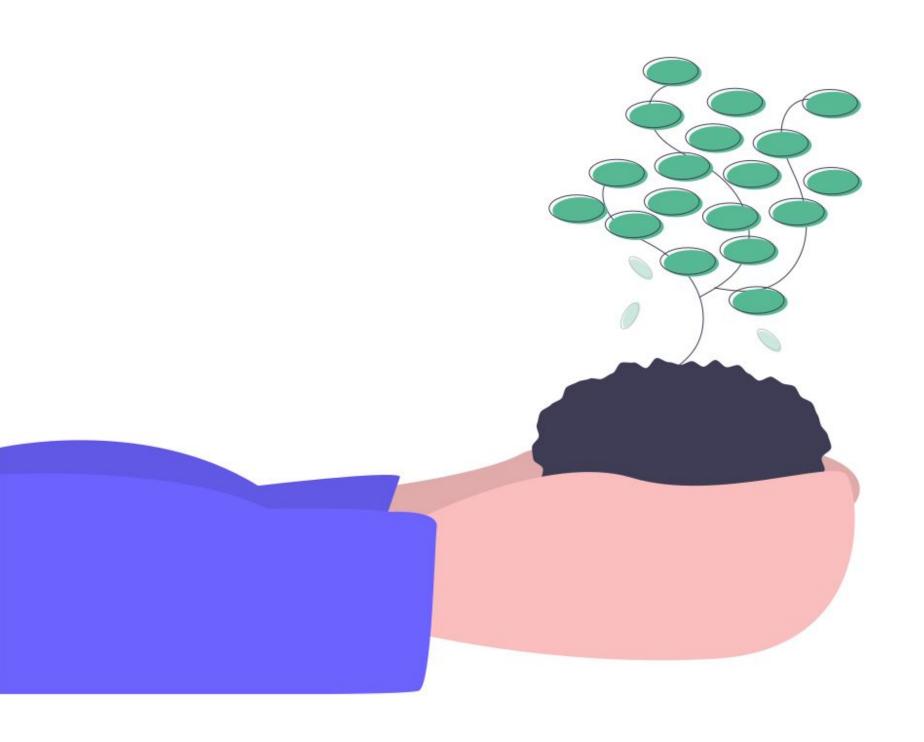


@tgrall



@adrienpessu

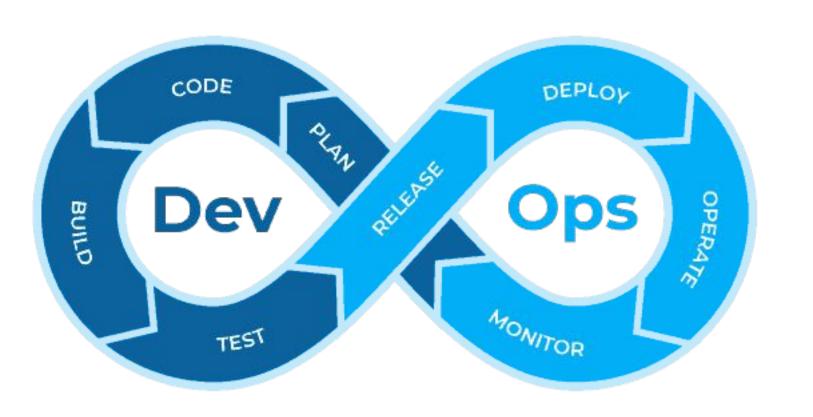


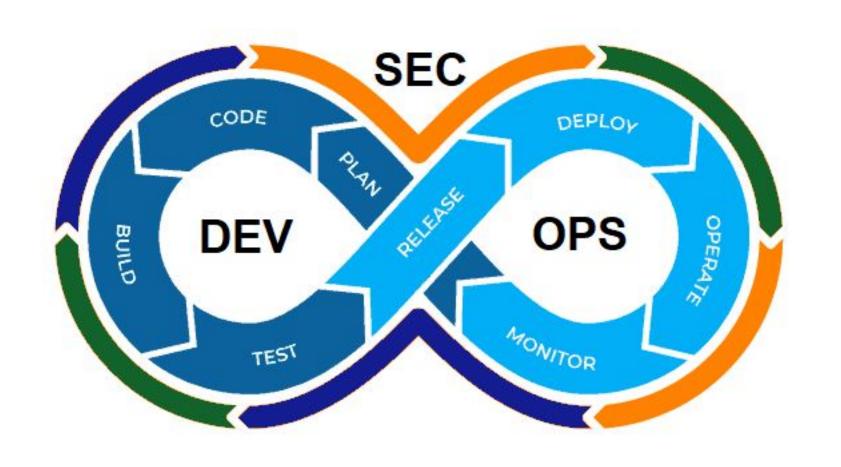


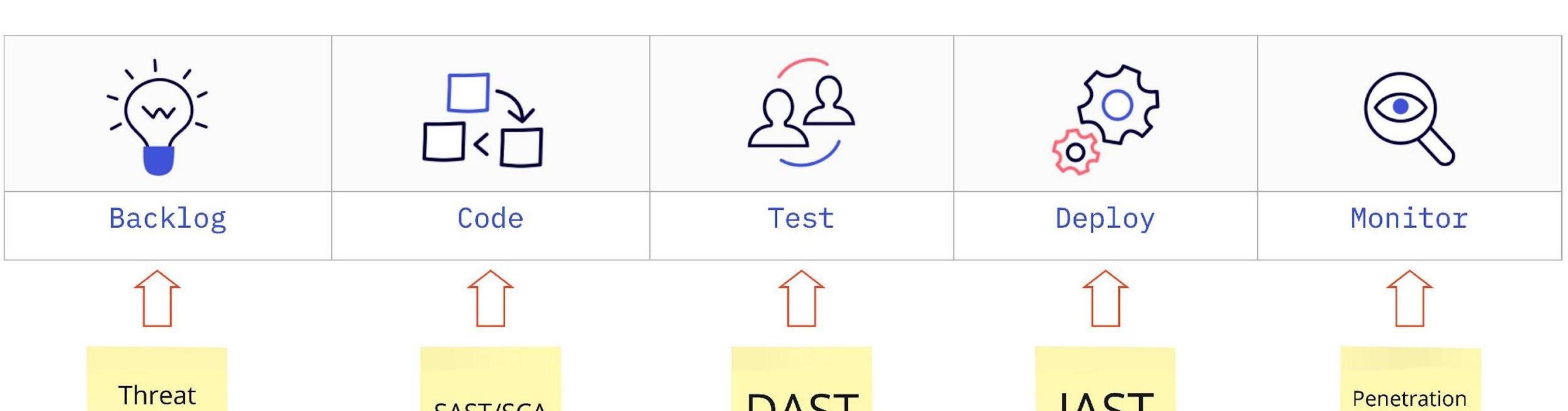
Oublier la cybersécurité, c'est "rouler à 200 km/h à

moto sans casque"

Guillaume Poupard, (futur ex-)patron de l'Anssi







DAST

SAST/SCA

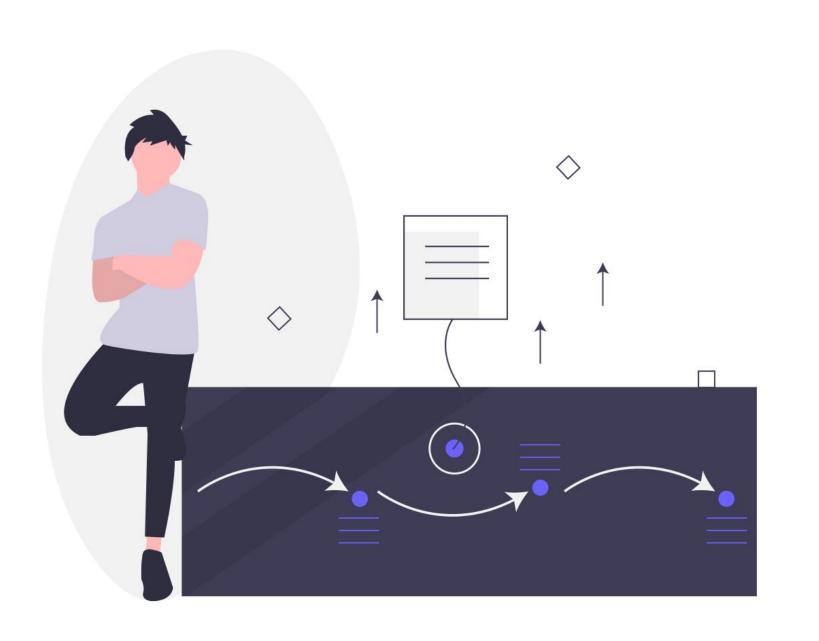
Modeling

IAST

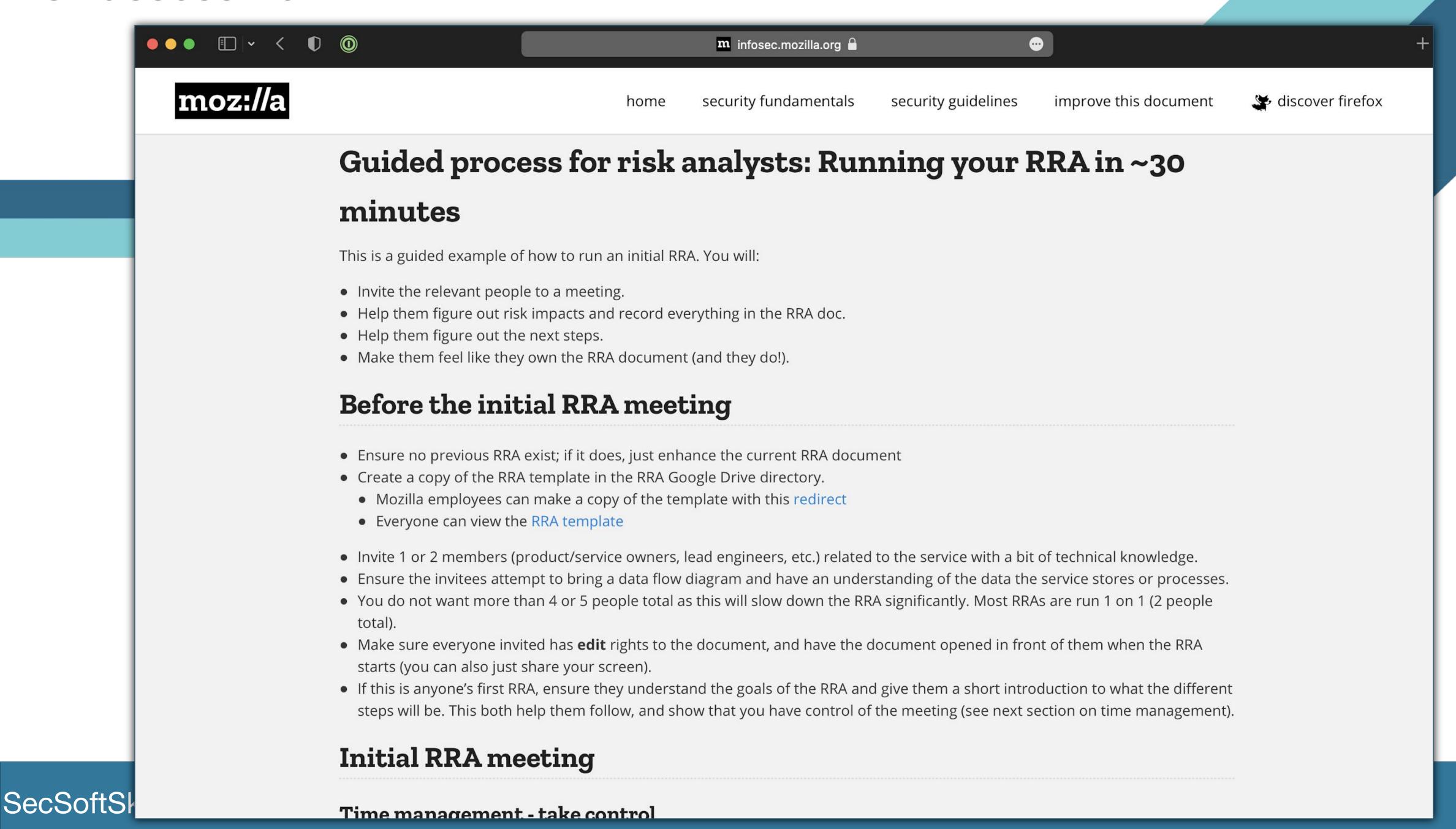
Penetration

test

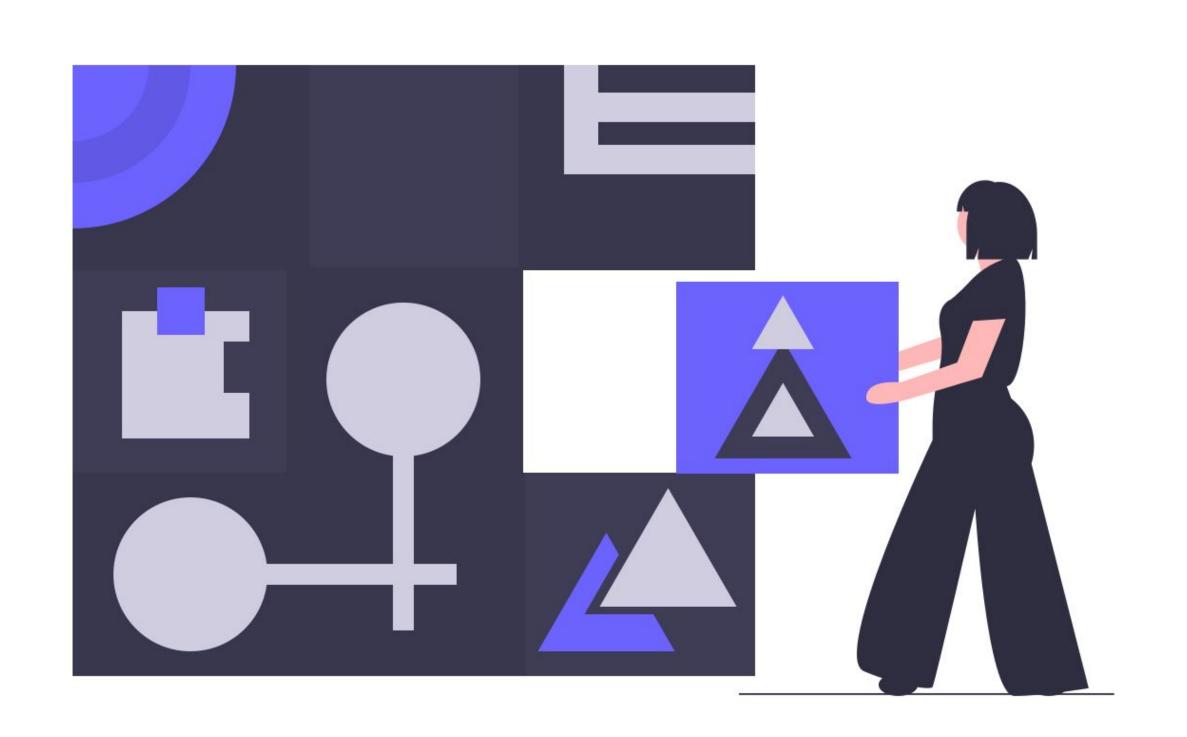
Risk assessment



Risk assessment



Threat modelling



SCA (SOFTWARE COMPOSITION ANALYSIS)

GitHub Advisory Database / GitHub Reviewed / CVE-2021-44228

Remote code injection in Log4j

(Critical severity) (GitHub Reviewed) Published on 10 Dec 2021 • Updated 27 days ago

Vulnerability details Dependabot alerts 0

Package

Affected versions >= 2.13.0, < 2.15.0 Patched versions

/ org.apache.logging.log4j:log4j-core (Maven)

2.15.0 2.3.1

>= 2.4, < 2.12.2

< 2.3.1

2.12.2

Description

Summary

Log4j versions prior to 2.16.0 are subject to a remote code execution vulnerability via the Idap JNDI parser. As per Apache's Log4j security guide: Apache Log4j2 <=2.14.1 JNDI features used in configuration, log messages, and parameters do not protect against attacker controlled LDAP and other JNDI related endpoints. An attacker who can control log messages or log message parameters can execute arbitrary code loaded from LDAP servers when message lookup substitution is enabled. From log4j 2.16.0, this behavior has been disabled by default.

Log4j version 2.15.0 contained an earlier fix for the vulnerability, but that patch did not disable attacker-controlled JNDI lookups in all situations. For more information, see the Updated advice for version 2.16.0 section of this advisory.

Impact

Logging untrusted or user controlled data with a vulnerable version of Log4J may result in Remote Code Execution (RCE) against your application. This includes untrusted data included in logged errors such as exception traces, authentication failures, and other unexpected vectors of user controlled input.

Affected versions

Any Log4J version prior to v2.15.0 is affected to this specific issue.

The v1 branch of Log4J which is considered End Of Life (EOL) is vulnerable to other RCE vectors so the recommendation is to still update to 2.16.0 where possible.

Security releases

Additional backports of this fix have been made available in versions 2.3.1, 2.12.2, and 2.12.3

Affected packages

Only the org.apache.logging.log4j:log4j-core package is directly affected by this vulnerability. The org.apache.logging.log4j:log4j-api should be kept at the same version as the org.apache.logging.log4j:log4j-core package to ensure compatability if in use.

Remediation Advice

Updated advice for version 2.16.0

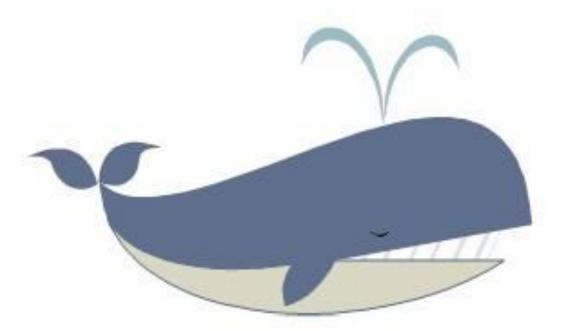
The Apache Logging Services team provided updated mitigation advice upon the release of version 2.16.0, which disables JNDI by



SCA (SOFTWARE COMPOSITION ANALYSIS)



Docker





Docker

```
$ docker scan --file Dockerfile docker-scan:e2e
Testing docker-scan:e2e
x High severity vulnerability found in perl
 Description: Integer Overflow or Wraparound
 Info: https://snyk.io/vuln/SNYK-DEBIAN10-PERL-570802
 Introduced through: git@1:2.20.1-2+deb10u3, meta-common-packages@meta
 From: git@1:2.20.1-2+deb10u3 > perl@5.28.1-6
 From: git@1:2.20.1-2+deb10u3 > liberror-perl@0.17027-2 > perl@5.28.1-6
 From: git@1:2.20.1-2+deb10u3 > perl@5.28.1-6 > perl/perl-modules-5.28@5.28.1-6
 and 3 more...
 Introduced by your base image (golang:1.14.6)
                  docker-desktop-test
Organization:
Package manager:
                  deb
Target file:
                  Dockerfile
Project name:
                  docker-image|99138c65ebc7
Docker image:
                  99138c65ebc7
Base image:
                  golang:1.14.6
Licenses:
                  enabled
Tested 200 dependencies for known issues, found 157 issues.
According to our scan, you are currently using the most secure version of the selected base image
```

SAST (STATIC APPLICATION SECURITY TESTING)





phpcs-security-audit v3

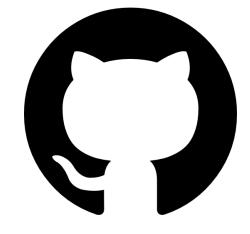














C O D A C Y

SAST (STATIC APPLICATION SECURITY TESTING)

<div text [innerHTML]="'greeting.translate.key' | translate:{name: name}"></div>

Bonjour {{ name }}, bienvenue à Rennes

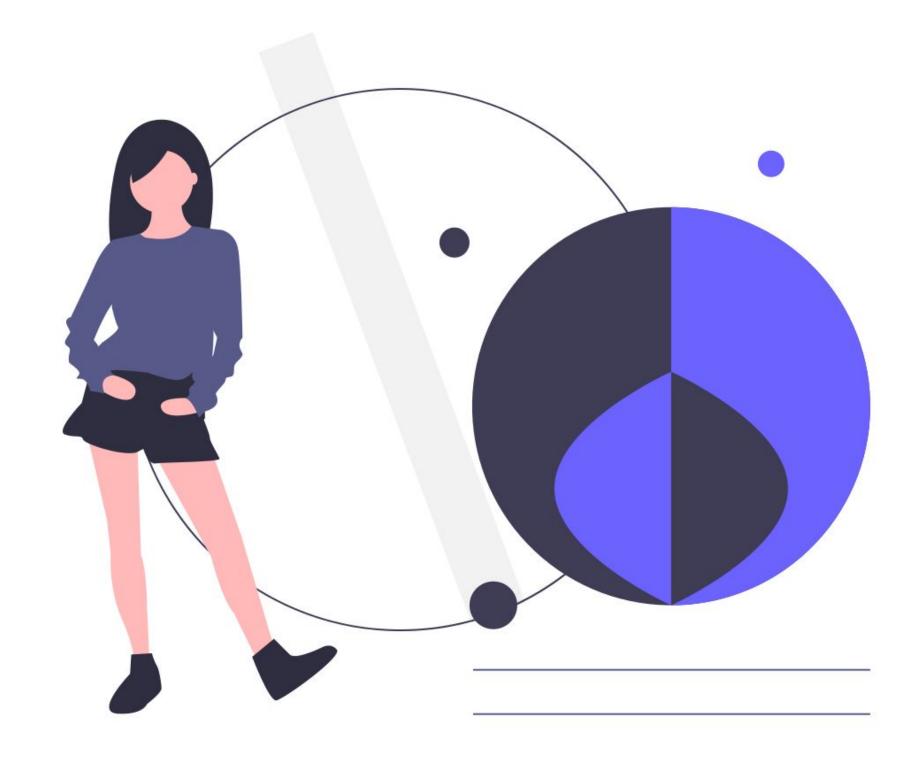
Bonjour Adrien, bienvenue à Rennes





DAST (DYNAMIC APPLICATION SECURITY TESTING)





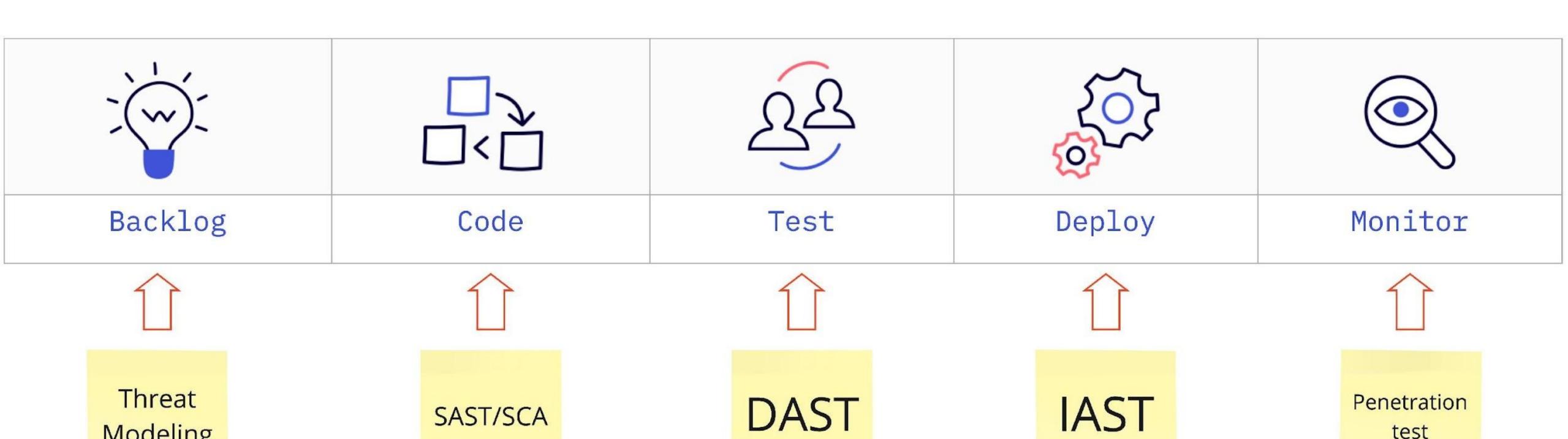
IAST (INTERACTIVE APPLICATION SECURITY TESTING)





Conclusion

Modeling



DAST

test

SAST/SCA