



OWASP London

28th July 2016



OWASP

The Open Web Application Security Project



- Networking, pizza and beer
- Welcome and OWASP Update
Sam Stepanyan & Sherif Mansour
- **CSP STS PKP ETC OMG WTF BBQ...**
Scott Helme
- ----- *short break* -----
- “Lightning” Talk - **Jacks Tool Demo**
Lewis Ardern
- **Achieving Secure Continuous Delivery**
Lucian Corlan & Chris Rutter
- OWASP Roundup
Sam Stepanyan
- Networking & Beer in the Brewhouse & Kitchen

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Chapter Leaders



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- Sam Stepanyan (@securestep9)
- Sherif Mansour (@kerberosmansour)

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[\[edit\]](#)



OWASP MEMBERSHIPS

global strategic group



Software powers the world, but insecure software threatens safety, trust, and economic growth. The Open Web Application Security Project (OWASP) is dedicated to making application security visible by empowering individuals and organizations to make informed decisions about true application security risks.

OWASP boasts 46,000+ participants, more than 65 organizational supporters, and even more academic supporters.

As a 501(c)(3) not-for-profit worldwide charitable organization, OWASP does not endorse or recommend commercial products or services. Instead, we allow our community to remain vendor neutral with the collective wisdom of the best individual minds in application security worldwide. This simple rule is the key to our success since 2001.

Your individual and corporate membership powers the organization and helps us [serve the mission](#). Please consider becoming an OWASP member today!



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Questions about OWASP Membership? [MEMBERSHIP FAQ](#)

Care to see our global membership demographics? [Membership Demographics as of January 2014](#)



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Premier Members

These corporate members support OWASP at the \$20,000 USD level annually.





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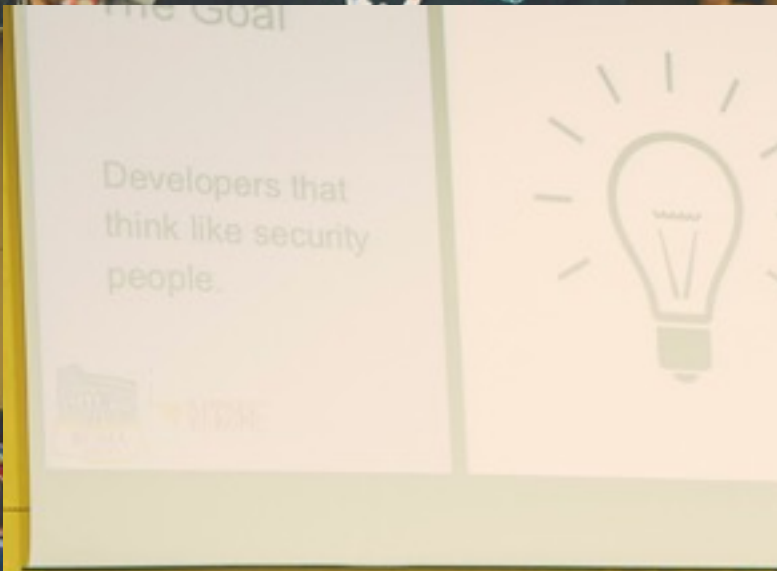
The Open Web Application Security Project

OWASP AppSec Europe '16

27/06/2016 - 01/07/2016

WELCOME TO ROME







Application Security Verification Standard v3.01



Application Security Verification Standard 3.0.1

July 2016

ASVS DEFINES DETAILED VERIFICATION REQUIREMENTS FOR LEVELS 1 AND ABOVE; WHEREAS LEVEL 0 IS MEANT TO BE FLEXIBLE AND IS CUSTOMIZED BY EACH ORGANIZATION



OWASP ASVS LEVELS



OWASP Security Knowledge Framework

The screenshot shows the OWASP Security Knowledge Framework web application interface. At the top, a dark blue header contains the text "Security Knowledge Framework" on the left, a "Code Language" dropdown menu in the center, and a "Logout" button on the right. A dark grey sidebar on the left lists navigation options: "Projects", "Users", "User groups", "Results", "Knowledge Base", and "Code examples". The main content area has a light grey background and features a heading "Security knowledge framework" followed by a paragraph: "In order to provide you with accurate data about your application the framework needs to know what processing functions are included in your application. Create a new project to get started if you haven't done so already." Below this text are four circular icons in a row, each with a corresponding label: "Start new project" (document with code icon), "Edit existing project" (document with list icon), "Security knowledge base" (book icon), and "Code examples" (code icon). At the bottom, a footer contains the copyright notice "© 2016 - Security Knowledge Framework" and a small upward-pointing arrow icon.

SKF - HSTS example



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Security Knowledge Framework

</> Code Language ▾

Logout

PHP

C# .NET

JAVA

Coming Soon



Projects

Users

User groups

Results

Knowledge Base

Code examples

Supported by OWASP

HTTP strict transport security

HTTP strict transport security

Description:

HTTP Strict Transport Security (HSTS) is an opt-in security enhancement that is specified by a web application through the use of a special response header. Once a supported browser receives this header that browser will prevent any communications from being sent over HTTP to the specified domain and will instead send all communications over HTTPS. It also prevents HTTPS click through prompts on browsers.

Solution:

Simple example, using a long (1 year) max-age: Strict-Transport-Security: max-age=31536000

If all present and future subdomains will be HTTPS: Strict-Transport-Security: max-age=31536000; includeSubDomains

Recommended: If the site owner would like their domain to be included in the HSTS preload list maintained by Chrome (and used by Firefox and Safari), then use: Strict-Transport-Security: max-age=31536000; includeSubDomains; preload

The 'preload' flag indicates the site owner's consent to have their domain preloaded. The site owner still needs to then go and submit the domain to the list.

There is still a window where a user who has a fresh install, or who wipes out their local state, is vulnerable. This is due to the fact that the browser is not yet aware of the fact if the application the it is trying to connect to supports HSTS. Whenever you are added to the preload list, the application its preference is hard-coded into the browser and all first initial connections will always be made by HTTPS.

CAUTION Site owners can use HSTS to identify users without cookies. [This can lead to a significant privacy leak.](#)

Cookies can be manipulated from sub-domains, so omitting the include "includeSubDomains" option permits a broad range of cookie-related attacks that HSTS would otherwise prevent by requiring a valid certificate for a subdomain. Ensuring the "Secure Flag" is set on all cookies will also prevent, some, but not all, of the same attacks.

Top 10 2016 is coming...



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OWASP Top 10 - 2016 Data Call

The OWASP Top 10 project is launching its effort to update the Top 10 again. The current version was released in 2013, so this update is expected to be the 2016 or more likely 2017 release. This time around, we are making an open data call so anyone with application vulnerability statistics can contribute their data to the project. To make it easier for the project to consume this contributed data, we are requesting it be provided via this [Google form](#).

DEADLINE: Data must be submitted by July 20, 2016.

As an OWASP project, we strive to make everything about every project as open as possible. For this release of the Top 10, we are going to publish all the contributed data so that anyone can review it to understand what input was considered to produce this update, and for other uses as well. We could imagine other groups/projects making use of this data for other reasons, so we believe publishing this data will have multiple benefits.

WARNING: You acknowledge that by contributing data to this update of the Top 10, that you authorize its publication. **DO NOT CONTRIBUTE** anything you don't want to become public.

Guidance on what data we are looking for:

We are looking for web application vulnerability statistics collected by your organization:

AppSec Pipeline Project



OWASP AppSec Pipeline

Main [Pipeline Tools](#) [Pipeline Design Patterns](#) [Presentations](#) [Metrics](#) [FAQs](#) [Acknowledgements](#) [Getting Involved](#) [\[edit\]](#)



The OWASP AppSec Rugged DevOps Pipeline Project

The OWASP AppSec Rugged DevOps Pipeline Project is the place to find the information you need to increase the speed and automation of your AppSec program. Using the documentation and references of this project will allow you to setup your own AppSec Pipeline.

Description

The AppSec pipeline project is a place to gather together information, techniques and tools to create your own

What is the OWASP AppSec Pipeline Project?

The AppSec Pipeline project is a place to gather together information, techniques and tools to create your own AppSec Pipeline.

Project Leaders

[Matt Tesauro](#) [Aaron Weaver](#) [Matt Konda](#)

Quick Download

[Bag of Holding](#)

News and Events

[AppSec EU June 2016](#)

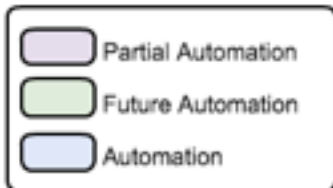
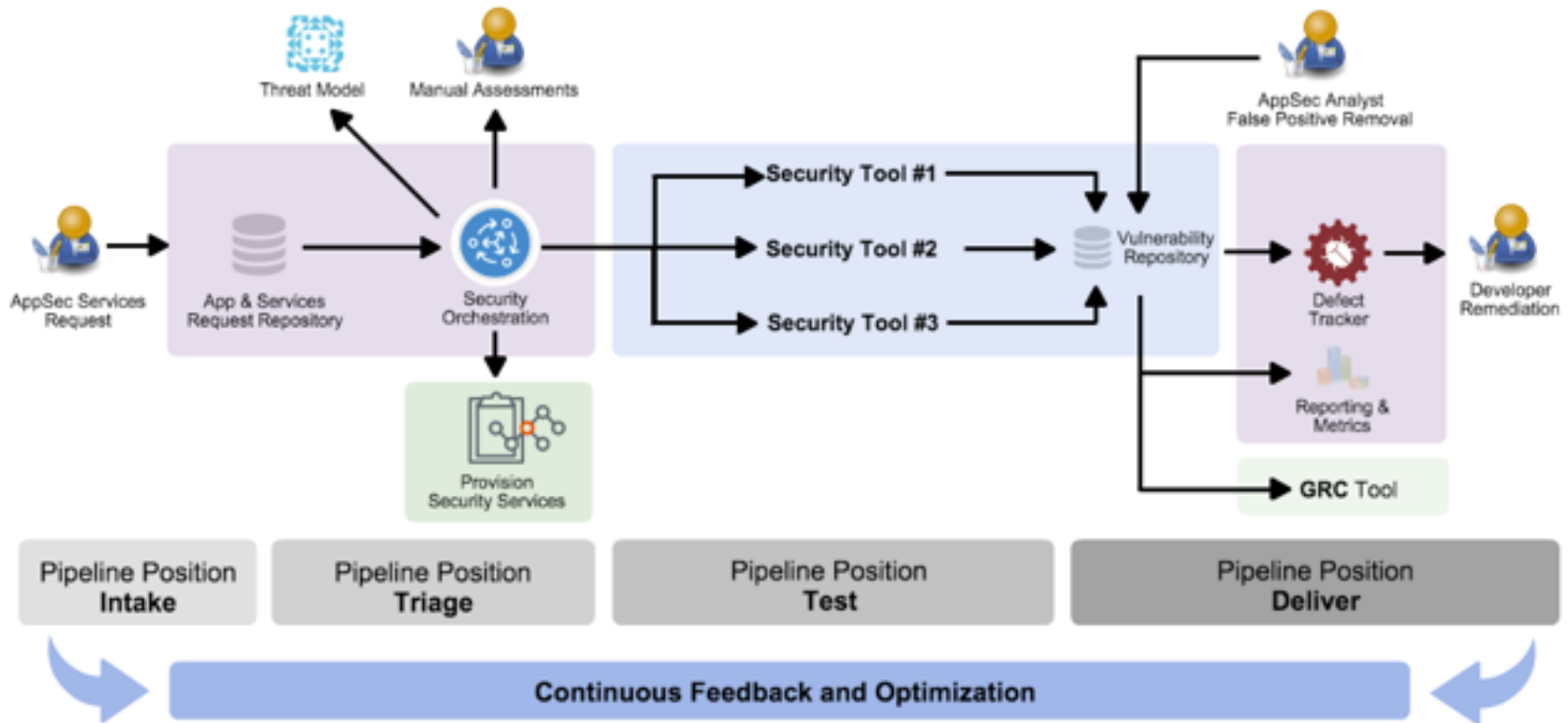
In Print

[Building an AppSec Pipeline](#)
[Taking DevOps practices into your AppSec Life](#)

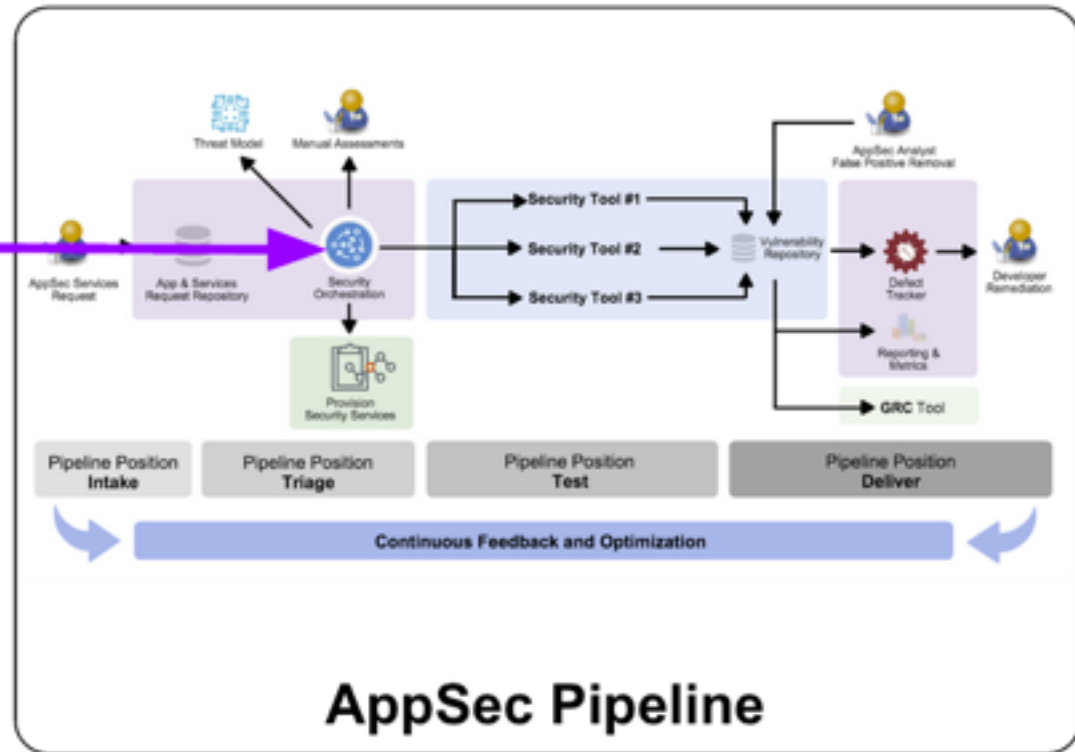
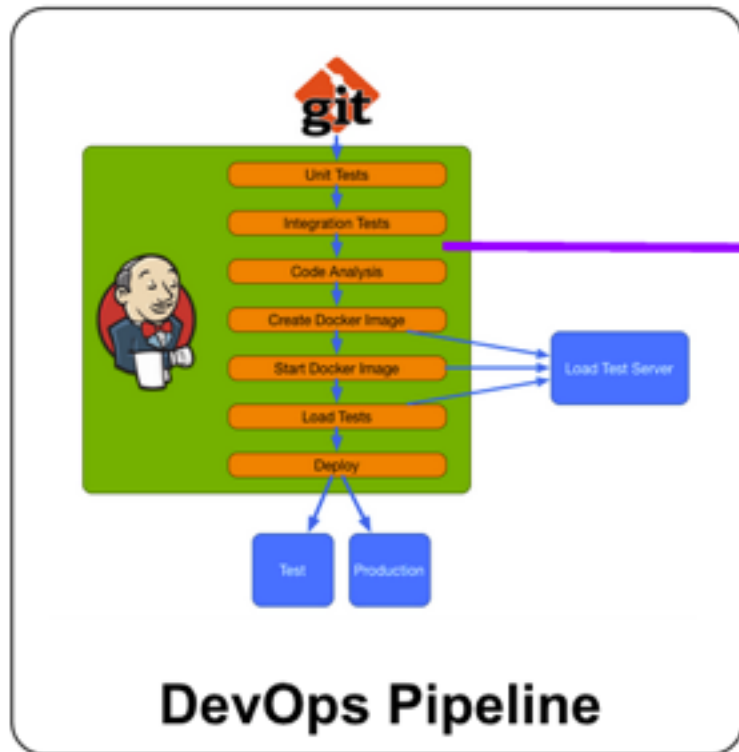
AppSec Pipeline



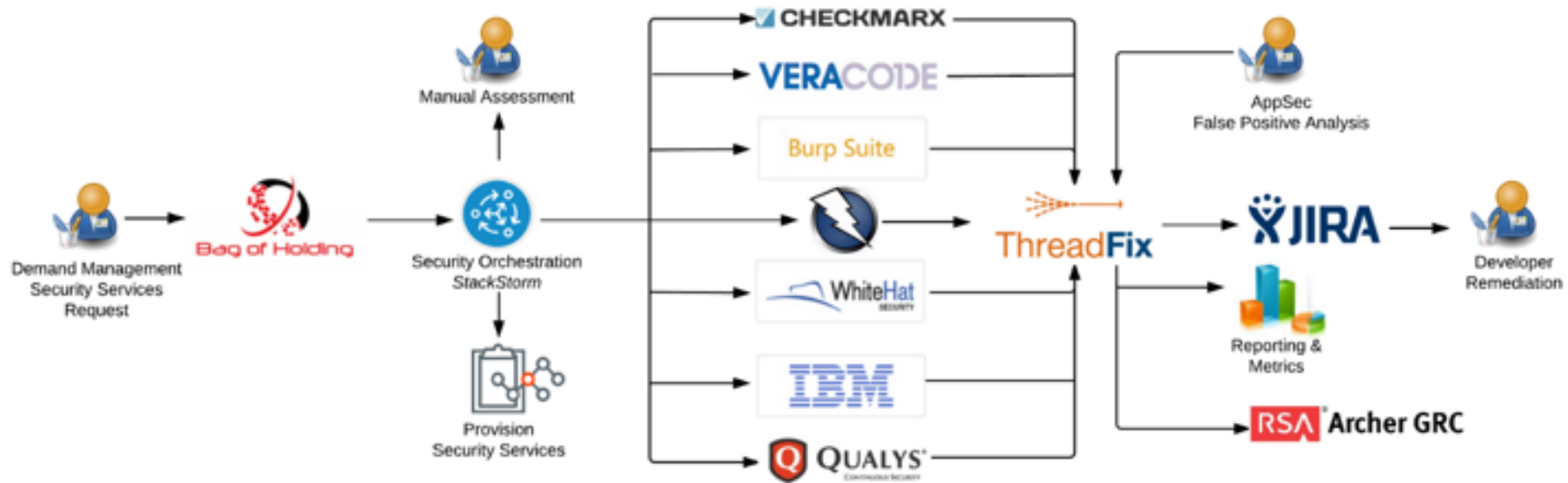
Rugged Devops - AppSec Pipeline Template



DevOps -> AppSec Pipeline



OWASP AppSec Pipeline





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GAME  HACKS

SEE HOW GOOD YOU ARE

This game was designed to test your application hacking skills. You will be presented with vulnerable pieces of code and your mission if you choose to accept it is to find which vulnerability exists in that code as quickly as possible

SINGLE PLAYER

CHALLENGE YOUR FRIEND

Add your own code to the game



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Intermediate

0



1/5

What vulnerability is exposed in this code?

Reflected Cross-Site Scripting

Command Injection

A & B are correct

None of the above

```
1 from django.http import HttpResponseRedirect, HttpResponseRedirect
2 from django.template import loader, Context
3 import os;
4 def addressValidator(request):
5     fullName = request.GET.get('fullName', None)
6     address = request.GET.get('address', None)
7     zipCode = request.GET.get('zip', None)
8     zipValid = os.system('zipvalidator \'' + zipCode + "\" \"' +
9     address + "\"")
10    u = User(name=fullName, address=address, zipCode=zipCode,
11    validZip=zipValid)
12    t = loader.get_template('registration-form.html')
13    return HttpResponseRedirect( Context(
14    {
15        'user': u
16    }
17    , autoescape=False )))
```

Question by: Daniela Fonte



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Mobile-Security-Framework (MobSF)

Version: v0.9.2 beta



Mobile Security Framework (MobSF) is an intelligent, all-in-one open source mobile application (Android/iOS) automated pen-testing framework capable of performing static and dynamic analysis. It can be used for effective and fast security analysis of Android and iOS Applications and supports both binaries (APK & IPA) and zipped source code. MobSF can also perform Web API Security testing with it's API Fuzzer that can do Information Gathering, analyze Security Headers, identify Mobile API specific vulnerabilities like XXE, SSRF, Path Traversal, IDOR, and other logical issues related to Session and API Rate Limiting.

Made with ❤️ in India

support 0 subscribed license gpl3 platform osx/linux/windows python 2.7 issues 0 0 0 0



- Sherif Mansour - CyberSecurity Challenge



[PLAY NOW] [LOG IN TO POD]

SEARCH





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The hunt for the best cyber security talent in Europe begins



OVERVIEW
MASTERCLASS
FACE TO FACE (F2F)
PLAY ON DEMAND CHALLENGES
2016 EUROPEAN CYBER SECURITY CHALLENGE
'UNIVERSALLY CHALLENGED'
CYBERCENTURION
SCHOOL CYBERGAMES
FIRST CYBER GAMES IN SCOTLAND
NORTH EAST CYBER GAMES
SCOTTISH UNIVERSITY CYBER CHALLENGE

Latest News

-  BAE Systems and HMGCC Launch 2016 Cyber Security Challenge UK Qualifying Challenges
21/07/2016 | Careers, Competitions, News, Sponsors
-  The hunt for the best cyber security talent in Europe begins
21/07/2016 | Competitions, News, Sponsors
-  Want to work
21/07/2016 | Careers Blog, Sponsors
-  Education can help fix the digital skills crisis
21/07/2016 | Careers Blog,



- Scott Helme



- **CSP STS PKP ETC OMG WTF BBQ...**
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Lewis Ardern
- **Achieving Secure Continuous Delivery**
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11 - 14 October 2016
Washington DC, USA



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Thank You



Speakers:

- Scott Helme
- Lewis Ardern
- Lucian Corlan
- Chris Rutter

London Chapter Leaders:

- Sam Stepanyan
- Sherif Mansour

Hosts for this event

- Expedia



- Attendees (you!)

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OWASP London
Save The Dates of Future
meetings:

29th September 2016

24th November 2016



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3 Tracks:

- Breakers
- Defenders
- Builders

Submit the abstract of your talk and your bio to:

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https://www



Drinks and Networking

“Brewhouse and Kitchen”

