



APPSEC
EUROPE

Leveling up your AppSec program

Agenda

- Intro
- Riot AppSec
- Bug Bounty
- Automation

Intro

- Senior Security Engineer at Riot Games
- Owner of application security and bug bounty
- 10 years of application security experience
- Gamer (not a good one)

Riot Games

- Developer and publisher of League of Legends
- Focused on player experiences first
- Gamers who take play seriously



WORLDS 2015 LEGENDS TAKE ALL



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Riot AppSec

We aim to arm every software engineer with the tools and knowledge they need to build safe and secure experiences for Players and Rioters



WORLDS 2015  LEGENDS TAKE ALL



BENGEI

FAKER

BWING

BANG

MOFE

WOLF



SMEB

ZWEI

HOJIN

HOTIA

KURO

MANGO

FRANK



THE DEFINITION OF SECURE CODE

Validating player supplied data

Using prepared statements

Applying the correct output encoding

Securely storing player data

Rate limiting API and authentication requests

Enforcing the use of strong passwords

Using source IP restrictions for admin portals

Creating audit logs for significant events

Using session specific tokens for form submissions

Securely transmitting player data

Secure application design and coding guidance

appsecdesign.riotgames.com

securecoding.riotgames.com



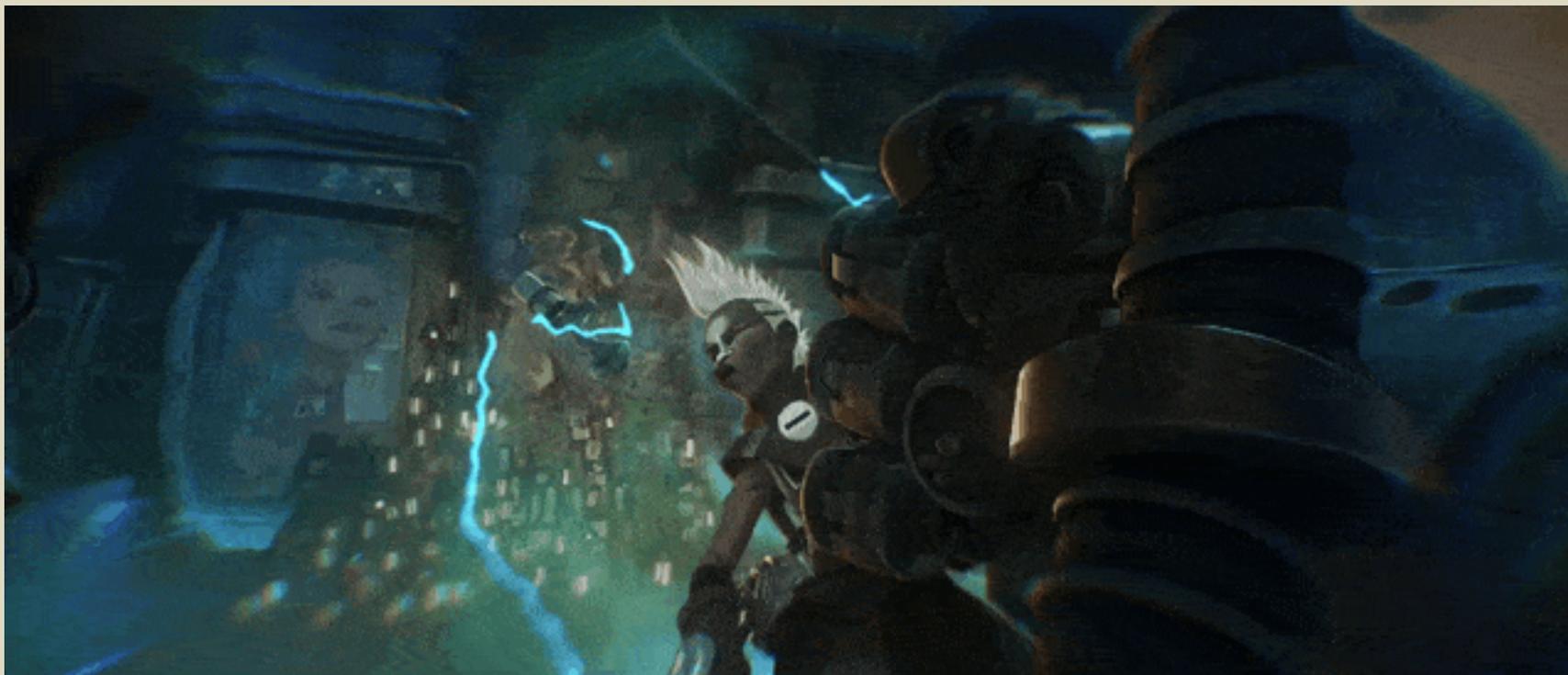






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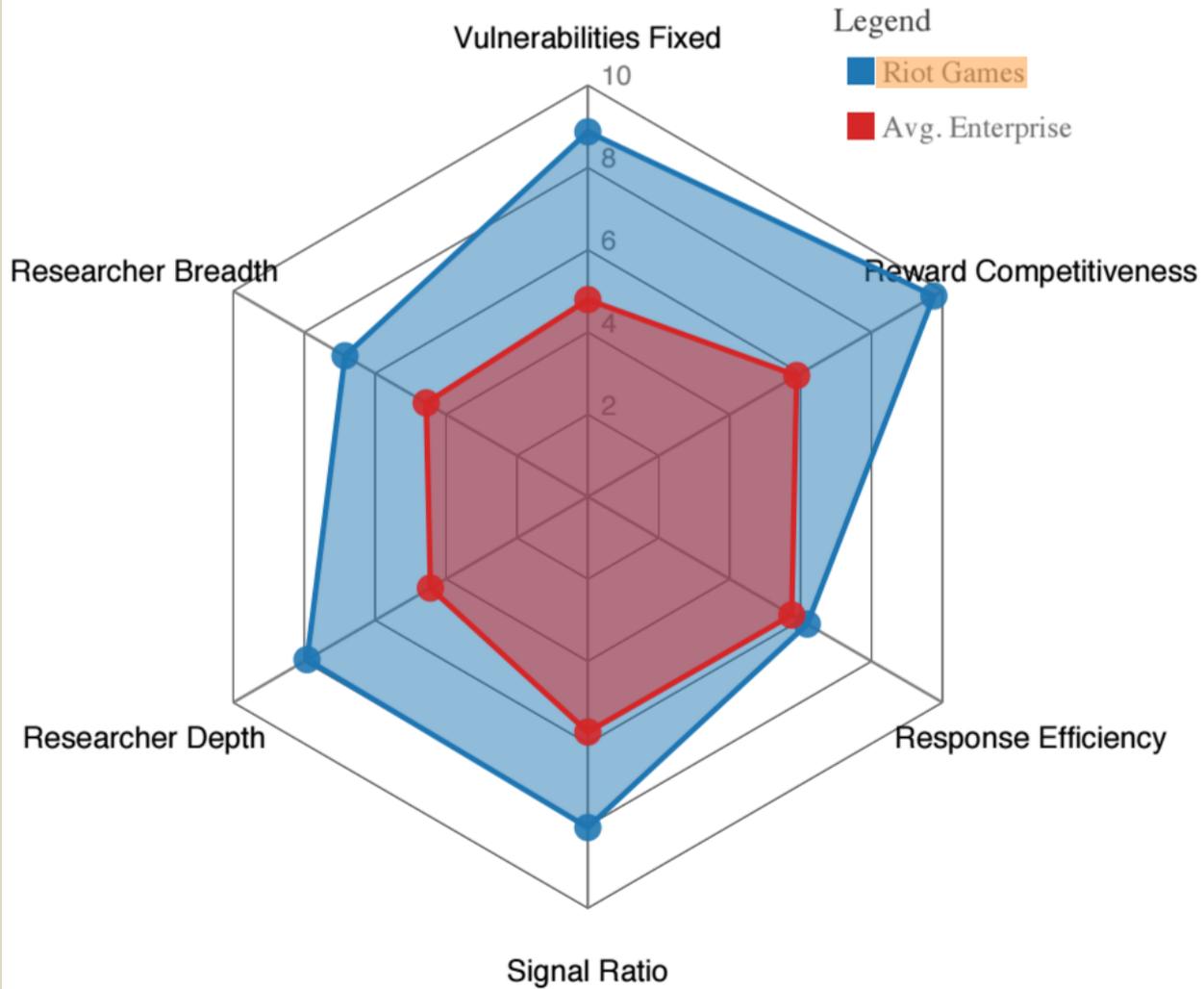
Riot Bug Bounty















Danger



On My Way



Assist Me



Enemy Missing



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Riot Automation













New rules!



davidrook authored on Nov 23, 2015

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[no-unsafe-innerhtml.js](#)

New rules!

[no-unsafe-script-innertext.js](#)

New rules

[no-unsafe-script-src.js](#)

New rules!

[no-unsafe-script-text.js](#)

New rules

[no-unsafe-script-textcontent.js](#)

New rules

[no-unsafe-settimeout.js](#)

New rules!

[no-unsafe-write.js](#)

New rules!

Request

GET /ESLint.js HTTP/1.1
Host: davidrook.co.uk
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.10; rv:43.0)
Gecko/20100101 Firefox/43.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
If-Modified-Since: Sun, 24 Jan 2015 00:30:11 GMT
Cache-Control: max-age=0

Response

HTTP/1.1 200 OK
Cache-Control: public, max-age=604800
Expires: Sun, 31 Jan 2016 00:36:42 GMT
Last-Modified: Sun, 24 Jan 2016 00:30:11 GMT
Content-Type: application/javascript
Content-Length: 389
Vary: Accept-Encoding
Date: Sun, 24 Jan 2016 00:36:42 GMT
Accept-Ranges: bytes
Server: LiteSpeed
Connection: close

"use strict";

function getParameterByName(name) {
 name = name.replace(/[\/]/, "\\[\/]");
 var regex = new RegExp("[\\?&]" + name + "=[^&#]*");
 results = regex.exec(location.search);
 return results === null ? "" : decodeURIComponent(results[1].replace(/\+/g, " "));
}

var playerName = getParameterByName('playerName');

document.write(playerName);





AppSec Slack Bot BOT 3:02 PM

Your new repo riotclient-data-mocking-rso-login looks like it's using NodeJS

We think these security resources are awesome for helping engineers build secure Node products:

<http://expressjs.com/en/advanced/best-practice-security.html>

<https://nodesecurity.io/>

<https://github.com/helmetjs>

If you'd like to speak to an AppSec Engineer for more detailed advice please reach out to us via appsecv@riotgames.com or the #ask-infosec Slack channel







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Questions?

@davidrook