



Leveling Up Security @ Riot Games

AGENDA

The background features a detailed illustration of a character with a long white beard and large, red, circular goggles that emit a blue light. The character has long, flowing blonde hair and is wearing a green jacket. They are surrounded by intense orange and red flames, suggesting a fiery or explosive environment. Mechanical components, like gears and pipes, are visible, adding to the industrial or steampunk aesthetic. The overall color palette is dominated by the warm tones of the fire and the cool blues of the goggles' light.

Who

Game of Security

Level Up

Final Boss?

WHO AM I

```
{  
  "contact": {  
    "email": "mhillick@riotgames.com",  
    "twitter": "@markofu"  
  },  
  "work": { "Riot Games": "LoL", "cert": { "GIAC GSE": true },  
            "life": { "Everything": "busy" } },  
  "tags": [ { "infosec": 1 }, { "challenge": 1 }, { "IR": 1 }, { "growth": 1 },  
            { "scale": 1 }, { "tons of damage": 1 }, { "fun": 1 },  
            { "DDoS": 1 } ],  
  "learning": [ { "Riot": true }, { "Industry": "so much change"},  
                { "Sharing": true } ]  
}
```

WHO AM I REALLY



2,000+ RIOTERS IN 17 OFFICES



SANTA MONICA
USA

SAO PAULO
BRAZIL

SAINT LOUIS
USA

DUBLIN
IRELAND

NEW YORK
USA

COLOGNE
GERMANY

ISTANBUL
TURKEY

MOSCOW
RUSSIA

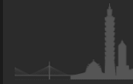
SEOUL
KOREA

TAIPEI
TAIWAN

SYDNEY
AUSTRALIA

TOKYO
JAPAN

HONG KONG
CHINA



TEAMWORK





MORE THAN
67 MILLION

MONTHLY ACTIVE
PLAYERS



MORE THAN
27 MILLION

DAILY ACTIVE
PLAYERS



7.5 MILLION

PEAK CONCURRENT
PLAYERS



— OUR MISSION —

WE ASPIRE

TO BE THE MOST

PLAYER

FOCUSED

GAME COMPANY IN THE

WORLD

POODLE



AGENDA

Who

Game of Security

Level Up

Final Boss?



MOVE FAST - GOALS



SECURITY



AGILITY

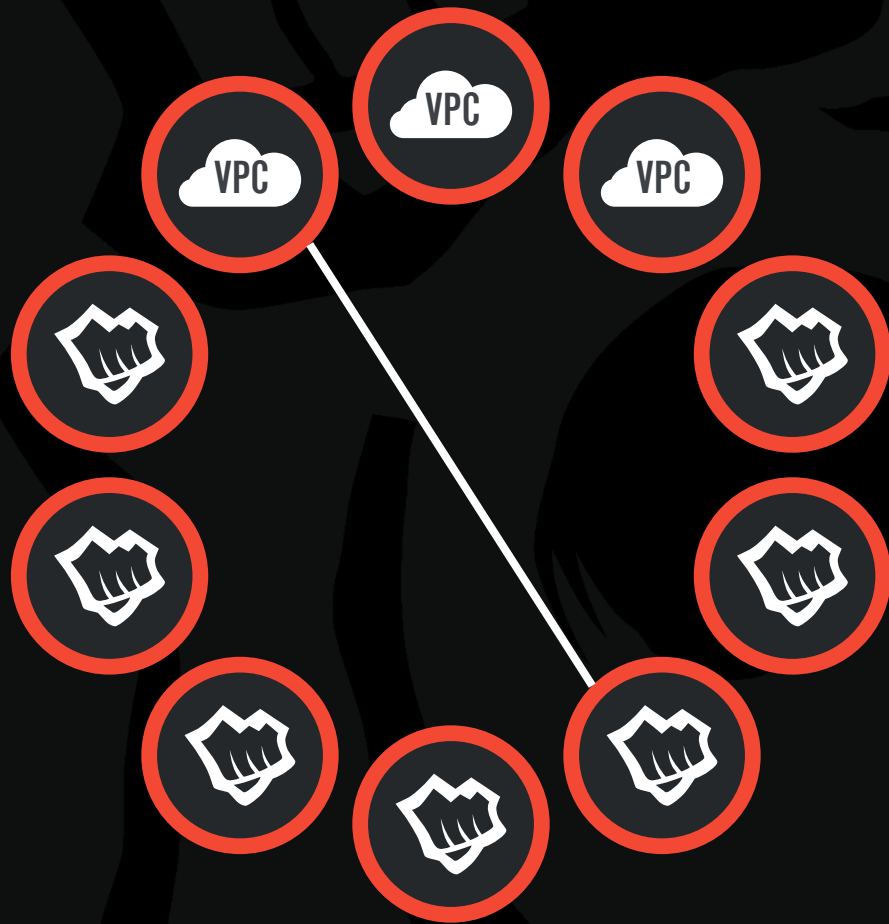


QUALITY



What brought us agility also brought
us the Wild Wild West of Computing

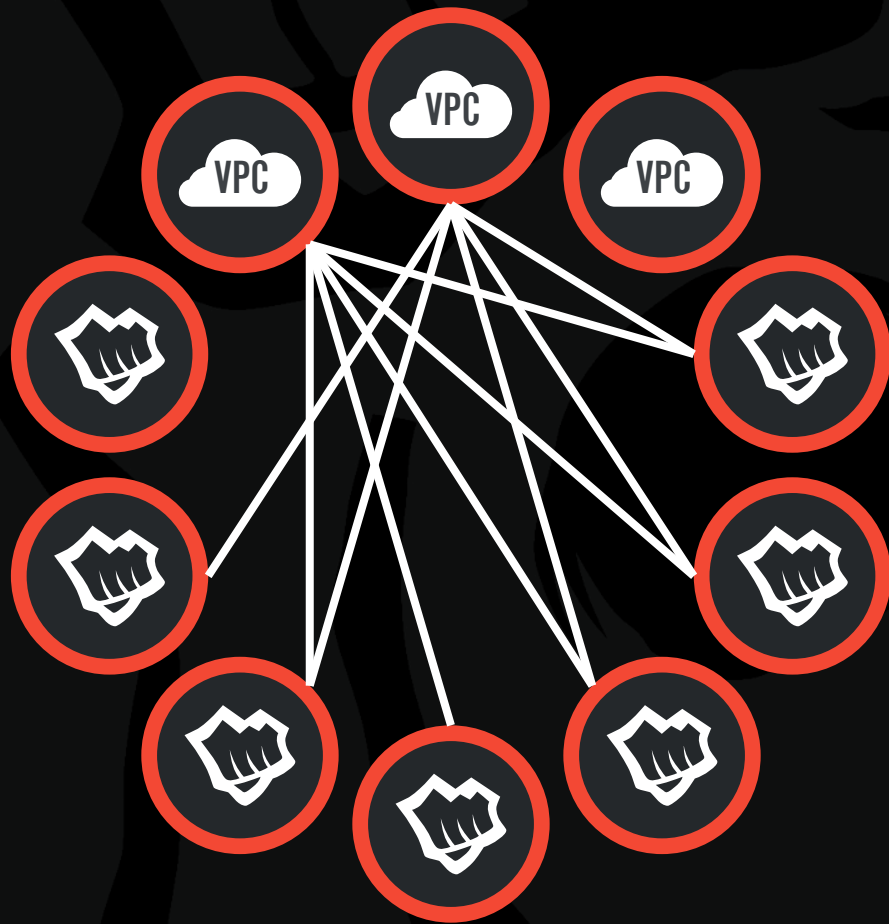
AWS (1)



1

of VPNs

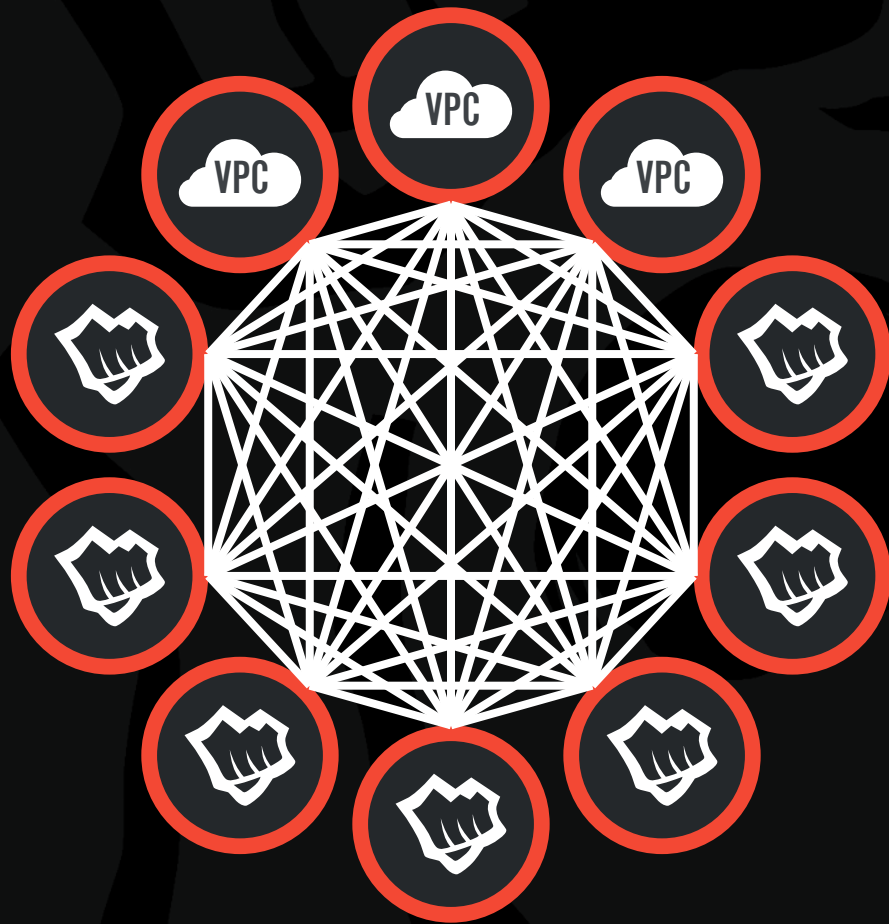
AWS (2)



40

of VPNs

AWS (3)

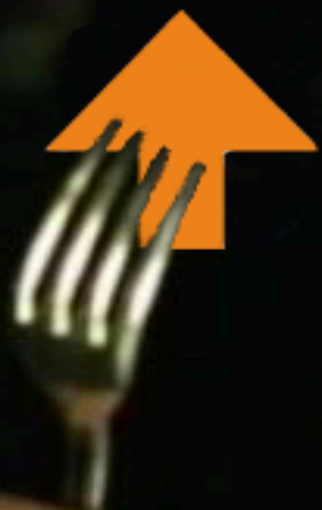


!!

of VPNs



I know this karma isn't real



**but my brain tells me it's
juicy and delicious.**



TO BE RELEASED
PRESIDENT'S NEXT DEBATE AT 9/8c
Sci Fi



Related Content

[Privacy policy update](#)

[Digital RP Codes on Amazon](#)

[Riot Games Engineering Blog](#)

Important Security Update and Password Reset

BY TRYNDAMERE

The security of your information is critically important to us, so we're really sorry to share that a portion of our North American account information was recently compromised.

What we know: usernames, email addresses, [salted password hashes](#), and some first and last names were accessed. This means that the password files are unreadable, but players with easily guessable

If Tetris Has Taught Me Anything,
It's That Errors Pile Up and
Accomplishments Disappear



AGENDA



Who

Game of Security

Level Up

Final Boss?

SUPPORT



LEAGUE
LEGENDS

**RAISE THAT
LEVEL**

Socialise

Alignment

Visibility

AWARENESS



SHAME
YOU
YOU

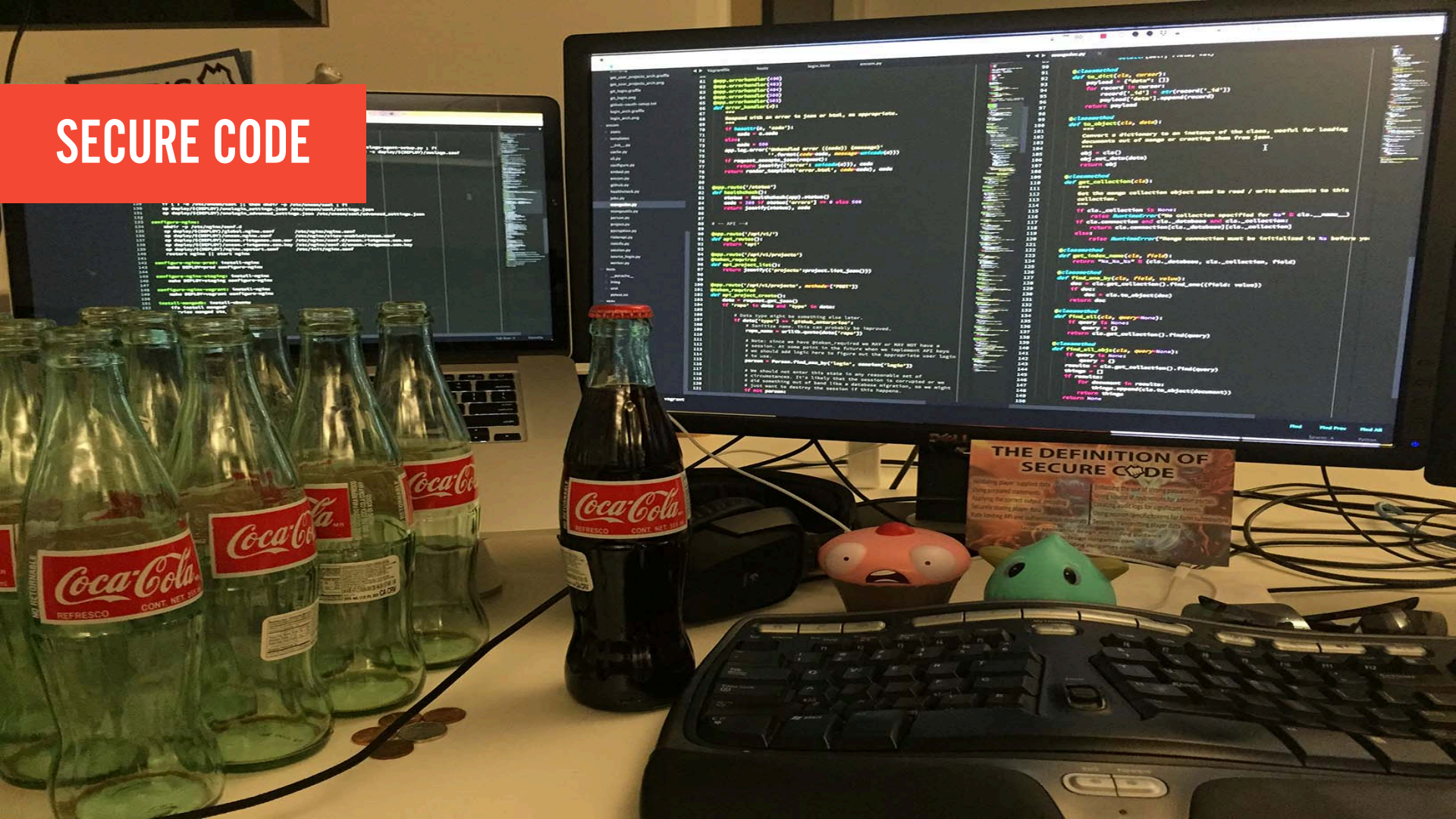


If security introduces
blocking to the org, it will be
ignored, not embraced

Etsy

@iodboi

SECURE CODE



The first recipients of the reward are Rioters who saw something suspicious, went above and beyond to make their project as secure as possible, or helped Riot as a whole stay secure. These awesome dudes & dudettes will receive a token of our appreciation that matches their mega-sized dedication to security!

SECURITY WEEK



Here's the first batch of Rioters who received our Gnarly Security Award!

RFCs



RED TEAM





SECURE OFFICE

Action Items

By accepting this RFC, you agree to:

- Strive to implement a secure infrastructure in your office
- Strive to maintain an infrastructure that enables InfoSec to have visibility to aide in Incident Response
- Strive to protect the resources and Intellectual Property in your office as outlined by this rfc
- Strive to ensure that all engineers in your office are familiar with the security practices outlined in this rfc and that training is received when applicable

Problem Statement

As Riot grows its physical footprint, creating a baseline design for a secure office becomes increasingly important in order to maintain the confidentiality of our Intellectual Property and to offer a secure foundation on which to build additional products and teams.

Version History / Status

> [Click here to expand...](#)

Stakeholders

> [Stakeholders](#)

Criteria

> [Assumptions](#)

Category	Criteria	Description	
General	Security	Only offices that require access to Riot IP will have access to it.	
	Security	Logical controls are in place around centralized resources so that the default access policy is drop	

OFFICE AS CODE

```
{  
  "offices": [  
    {  
      "id": "1",  
      "code": "LAX1",  
      "aliases": [ "LAX" , "SoCal", "Santa Monica" ],  
      "city": "Los Angeles",  
      "country": "USA",  
      "esports": "false",  
      "secure": "true",  
      "external_ip": [ "1.1.1.1/32", "2.2.2.2/32" ]  
    }  
  ]  
}
```


VISIBILITY

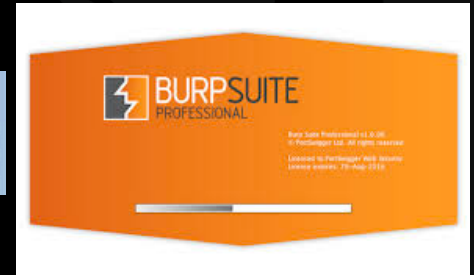


VISIBILITY MATRIX

Proprietary



Security@nion



AWS Audit ; Sightstone ; Network Scanner

- Overview
- EC2 Instances
- CloudTrail Events
- Reports
- Required Tags
- Old EC2 Instances
- Admin
- Accounts

EC2 Instances

TOGGLE

Running

2547

0Instances3835

Stopped

1288

0Instances3835

With Public IP

30.0%

0Percent100

Miscellaneous

TOGGLE

235

Elastic IPs

12041

Known Tags

95585

CloudTrail Events

RFC 26 Compliance

TOGGLE

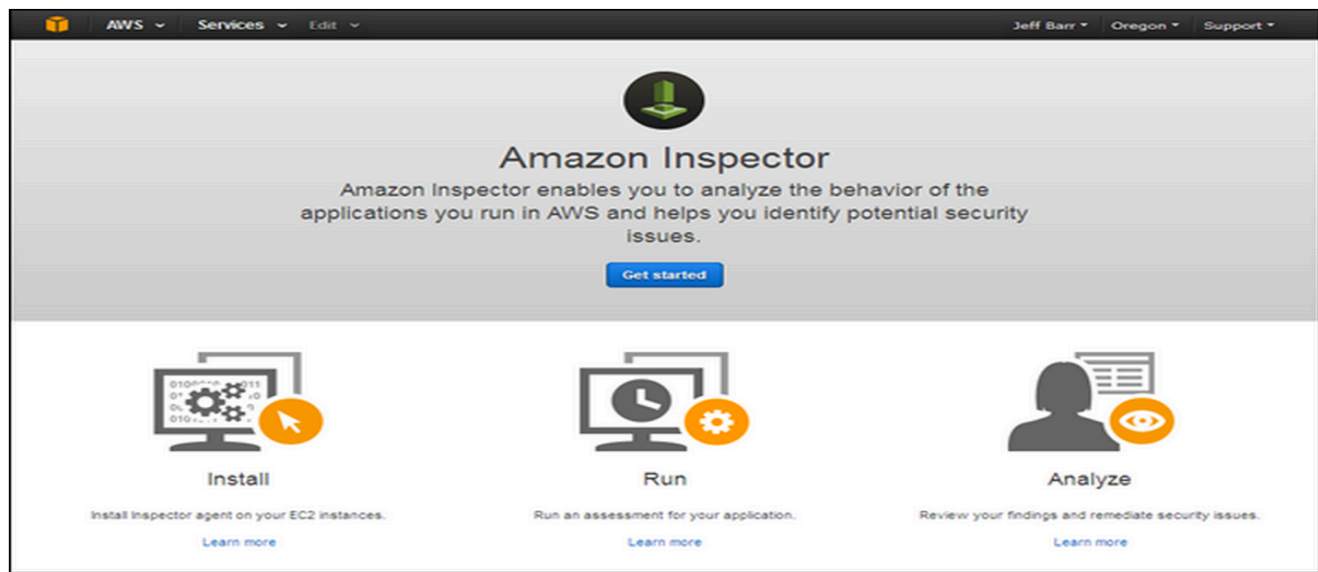
Amazon Inspector – Automated Security Assessment Service

by Jeff Barr | on 07 OCT 2015 | in [Amazon Inspector](#), [Re:Invent](#) | [Permalink](#)

As systems, configurations, and applications become more and more complex, detecting potential security and compliance issues can be challenging. Agile development methodologies can shorten the time between “code complete” and “code tested and deployed,” but can occasionally allow vulnerabilities to be introduced by accident and overlooked during testing. Also, many organizations do not have enough security personnel on staff to perform time-consuming manual checks on individual servers and other resources.

New Amazon Inspector

Today we are announcing a preview of the new Amazon Inspector. As the name implies, it analyzes the behavior of the applications that you run in AWS and helps you to identify potential security issues.



THE HUNT IS ON: INTRODUCING RIOT'S BUG BOUNTY PROGRAM

Posted on 11-21-14



There it was, a vulnerability that a Rioter had missed, an obscure weak point on the *League of Legends* website. With enough savvy, a malicious hacker could steal another player's identity on forums and make posts to impersonate them. We're not talking full-blown identity theft or account hijacking, but a pretty serious vulnerability nonetheless. And definitely something we should fix as soon as possible.



STATISTICS

General Stats

Bug Types

Researcher Statistics

Initiatives

Teams

Products

KPI stats of all time

# Days	Acknowledgement	Verification	Duplicate	Fix
Average time	1.71	11.18	8.32	49.49
Number of Bugs	593	429	89	275

KPI stats of the last 30 days

# Days	Acknowledgement	Verification	Duplicate	Fix
Average time	0.41	5.70	8.99	22.41
Number of Bugs	68	50	5	21

General Stats

Years

All

Submit Query

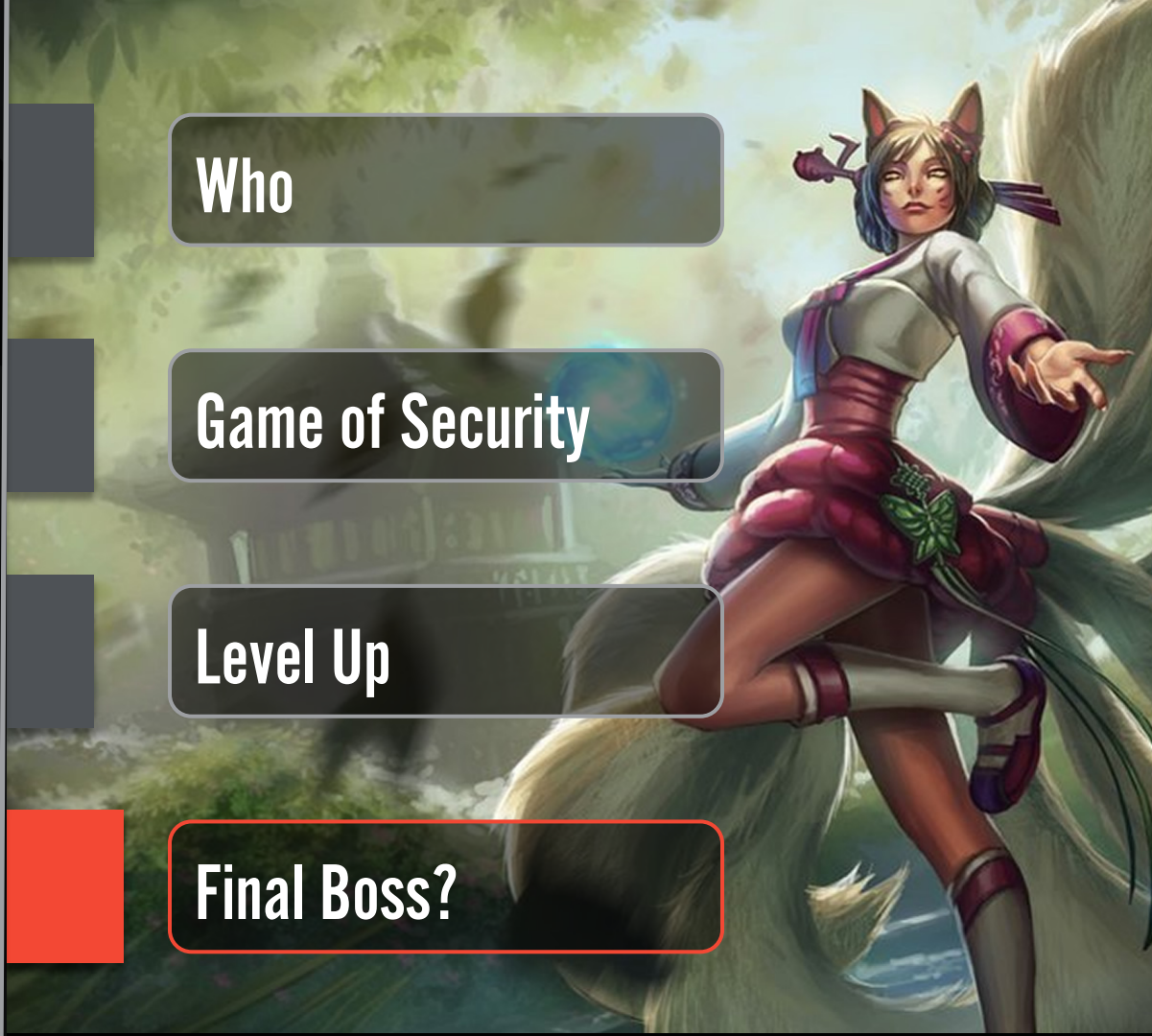
AGENDA

Who

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FINAL BOSS



ALL THE THINGS



FUTURES

Hiring

Standards & Verify

Tools

FUTURES (2)

Outreach // Outreach // Outreach // Outreach

INSTANCES

Instances

Spot Requests

Reserved Instances

IMAGES

AMIs

Bundle Tasks

ELASTIC BLOCK STORE

Volumes

Snapshots

NETWORK & SECURITY

Security Groups

Elastic IPs

Placement Groups

Launch Instance

Connect

Actions ▾

 Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name ▾	Instance ID ▾	Instance Type ▾	Availability Zone ▾	Instance State ▾	Status Checks ▾	Alarm Status
<input type="checkbox"/>	frontend-wor...	i-d3f64011	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	irc-jumpbox	i-5ea2d09c	t2.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	front-end-dvwa	i-aa18af68	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	Kali01	i-4919ae8b	m3.medium	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	infosec-ircd	i-d70a9615	t2.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	front-end-Pw...	i-84da6c46	t2.medium	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	Scoreboard	i-4c82318e	t2.micro	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	front-end-no...	i-2b64d2e9	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	front-end-for...	i-a918af6b	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	jump-box	i-d007b012	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	infosec-ircd-...	i-d60a9614	t2.small	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	nat-gateway	i-abe75169	m3.medium	us-west-1c	● running	✓ 2/2 checks ...	None
<input type="checkbox"/>	backend-mysql	i-139828d1	m1.small	us-west-1c	● running	✓ 2/2 checks ...	None

THUNDERDOME



**RUNNING TO STAY
STILL – DON'T**



REACH OUT



CONCLUSION

Engage, Align & *Support*

Learn & Iterate

Remember Your Audience

QUESTIONS

