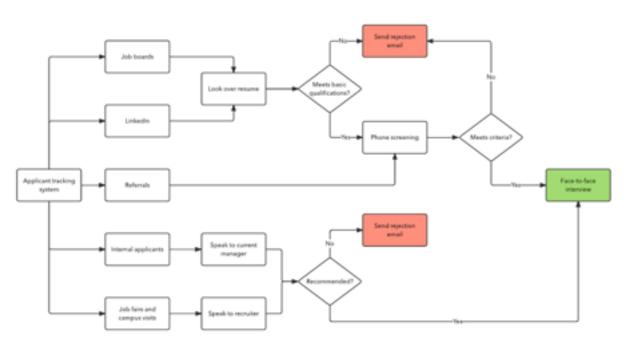
Improving the Quality of Your Cyber Security Hires via Pre-Interview Challenges

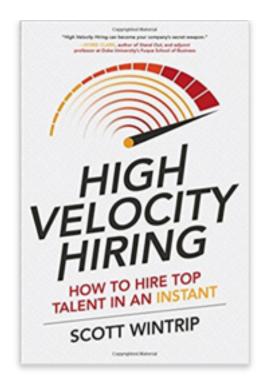
Dinis Cruz CISO Photobox Group, 25th Jan 2017

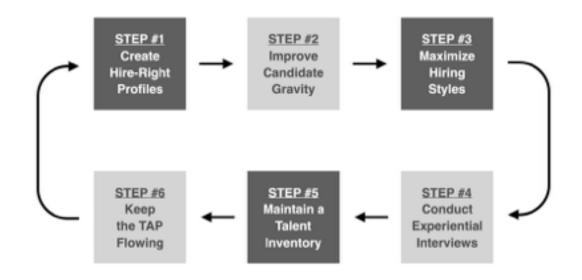
The CV inefficient workflow





High Velocity hiring





How do you hire 6x senior highly skilful and motivated talent

Permanent Positions Role Head of AppSec Head of Detect Head of InfoSec Head of Risk and Compliance Head of SecOps PosterXXL Information Security Officer Senior Cloud Security Engineer

What we did

- We didn't want to do the normal recruitment process
- Photobox Group values are about shaking things and being innovative
- Opportunity to create a great experience for candidates and ourselves
- Win-win experience for all
- Create talent inventory









Proof that it is working

Hi James.

I wanted to thank you for the opportunity, but right now due to some things coming up I simply do not have time for these challenges. I think the fact I don't have time for the challenges is a good indicator that right now maybe this role isn't for me :-)

However, I wanted to feedback that this is one of the more interesting application processes I've seen - I think the challenges are excellent. I did a lot of research into PhotoBox Group Security before applying and it seems like a forward-thinking company that I would like to be a part of one day. The public-facing material such as the blog posts and the innovative challenges fit into what I would like to see coming from a company invested in the security industry (I'm bored of the norm I see at most companies I've interviewed with or looked into).

Although I will have to "take back" my application for now, I wanted to give you that feedback rather than ignoring your email or giving you a half-arsed "not interested" response. I will keep an eye on your careers page and potentially apply in the future once I've sorted some things out my end and am in a better position to apply.

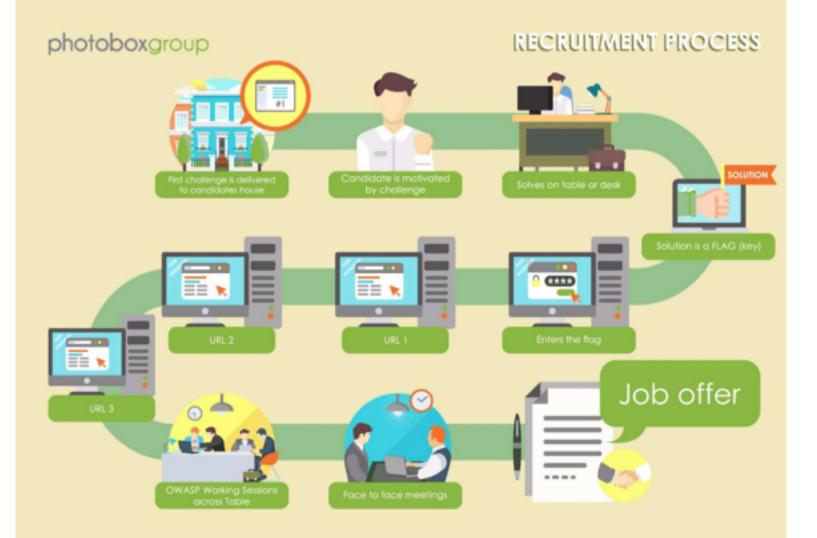
Thanks again, Gareth

the more interesting application processes I've seen - I think the challenges are excellent.

forward-thinking company

to see coming from a company invested in the security industry





v1.0

```
photoboxgroup security

We're hiring
Decrypt the code to access the recruitment challenges

project-cx.com/ enter 'flog'

project-cx@photobox.com
```

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v1.1

```
photoboxgroup security

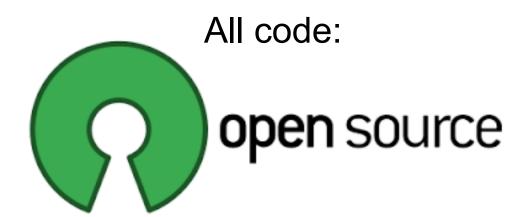
project-cx:ephotobox.com
```

```
CTIONITIES CHOOSEPO COLLEGES CHOOSES STITICING CHIEFTI COLLEGES CHOOSES CHOOSES CHICAGES CHIEFTI STITICING CHIEFTI COLLEGES CHICAGES CHICA
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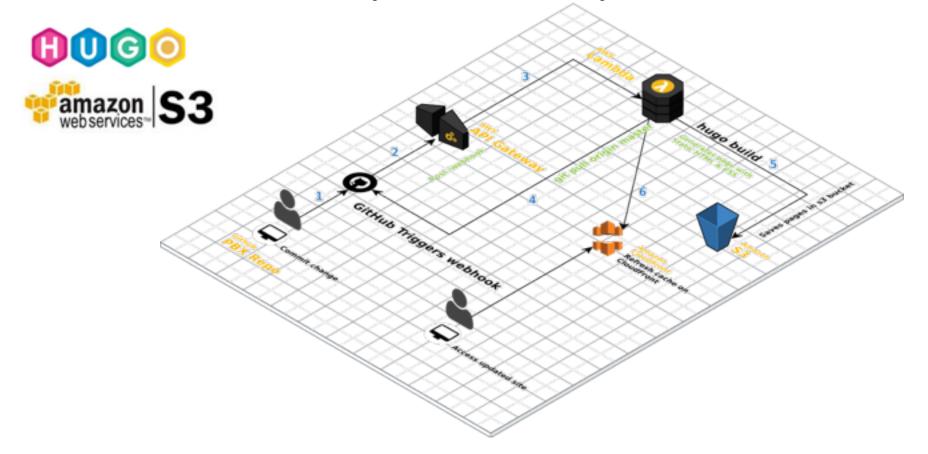
Next we created https://pbx-group-security.com

All content:





Static website created by and hosted by



HOME ABOUT US

ROLES

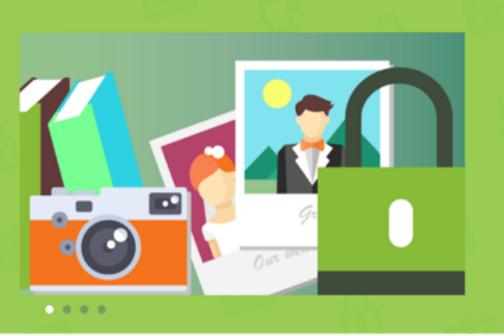
CHALLENGES

BLOG

CONTACT

OUR MISSION

TO SECURE OUR CUSTOMERS' MAGIC MOMENTS ACROSS ALL OUR BRANDS









WE'RE HIRING

WHY WORK AT PHOTOBOX

BLOG







HOW WE THINK ABOUT SECURITY

IN RECRUITMENT

December 17, 2017

Our group of companies provide an incredible service for our customers, we work in a special space for them, helping them create something unique; a snapshot of a time and a place perhaps, the capturing of a memory, the gift that shows someone else how much they care for them. They trust us to be there for them and to protect those magical and intimate moments, it's something we are proud to take very seriously.

CONTINUE READING

SEARCH

Search Q

CATEGORIES

cybersecurity (1)

data-protection (1)

gdpr (1)

recruitment (2)



WE NEED YOUR HELP

BY DINIS CRUZ

December 11, 2017

How can you help with the Group Security recruitment process? Group Security is

TAGS





CTO blog entry

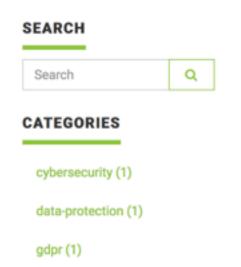


DECEMBER 17, 2017

Our group of companies provide an incredible service for our customers, we work in a special space for them, helping them create something unique; a snapshot of a time and a place perhaps, the capturing of a memory, the gift that shows someone else how much they care for them. They trust us to be there for them and to protect those magical and intimate moments, it's something we are proud to take very seriously.

Every day we produce tens of thousands of unique and complex items, we ingest millions of photos into our sites and store them, we support hundreds of colleagues in multiple sites across Europe, our data set is at petabyte scale and we add terabytes more every day.

Our own technology enables every aspect of what we do for customers, from our web sites to our factories we rely on our engineering teams to build, maintain and evolve our services to cope with our growing customer base, the pace of our product evolution and our ever changing manufacturing capabilities.



CISO blog entry



BY DINIS CRUZ | DECEMBER 11, 2017

The Photobox Group represents a really good opportunity for security professionals who want to make a difference and want to take their ideas to the next level. The security team within Photobox Group is in a really privileged position. We have support from all levels of the organisation:

- Board
- CTO
- · Brand owners
- · Even the developers and technologists on the ground

Everyone, within the group, understands security is important and we have to get it right. With great security activities underway, there is an opportunity to take them to the next level.

What attracted make work for Dhatabay Croup was its appleanment the ability to easle accurity and make a

CATEGORIES

cybersecurity (1)

data-protection (1)

SEARCH

Security team blogs (this one on GDPR history)



BY ROBERT GRACE | DECEMBER 4, 2017

Warren & Brandeis: The Right to Curate an Identity

Mrs Warren's Profession

- · No. not THAT Mrs Warren.
- Our Mrs Warren was a hostess and the problem started with what Mr Warren perceived as unwelcome and intrusive reportage on his wife's "at Homes" and his daughter's wedding.
- The sensational and salacious coverage outraged Warren and he consulted Brandeis on the matter of privacy and the law.

SEARCH Search CATEGORIES cybersecurity (1) data-protection (1)

WE'RE HIRING

JOIN OUR TALENTED, HIGH-FUNCTIONING TEAM



HOME

ABOUT US

ROLES

CHALLENGES

BLOG

CONTACT

JOIN A MODERN SECURITY TEAM

We are recruiting for the following new roles within the Photobox Group Security team.

Here are some of the reasons you should join our team:

- · How we think about Security
- · Why join Photobox Group Security
- Why Challenges

For Recruiters

Photobox Group is not looking to work with recruitment agencies for any permanent roles listed on this site.

If you have any suitable candidates for the contract positions listed below please email us.



Please see below the links to the challenges that we have created for the different roles (we are adding more every day, so if the role you want to apply for is not there, keep an eye on this page).

See the Why Challenges? blog post for more thoughts on the concept of challenges.

See this page for All Challenges with skills information.

photoboxgroup

All Challenges (mapped by Area)

behaviours 13		
Title	Difficulty	key
Business Sense	hard	BE-BS
Flexibility	medium	BE-FL
Teamwork	medium	BE-TE

compliance		
Title	Difficulty	key
Assisting a DPO	hard	CO-AD
Boardroom Reporting and Dashboards	medium	CO-BR
Compliance Policy	hard	CO-CP
GDPR Action Plan	medium	CO-GP
PII Data Breach	medium	00-PI
Working as a DPO	hard	CO-OP

management		
Title	Difficulty	key
Business Strategies	hard	MA-BS
Challenge of Recruiting	hard	MA-CR
Deliver Results Through Teamwork	expert	MA-DR
Develop and Attract Talent	hard	MA-TA
Improve on OWASP summit outcomes	hard	MA-00
Role Model	expert	MA- RM

programming	g =5	
Title	Difficulty	key
EC2 with Vulnerable Site	medium	PR-VS
Experience with Perl	medium	PR-EP
Graph-Based Schema	hard	PR-GS
Lambda - Stop EC2 Instances	hard	PR-LE
Programming Experience	medium	PR-PE

research		
Title	Difficulty	loey
Book Review	medium	RE-PB
FinTech	medium	REFT
Industry Awards	expert	REHA
Inspirational Leaders	hard	RE-TL
Inspirational Security	medium	REIS
Interesting Research	medium	RE4R
Open Source vs Proprietary Software	medium	RE-OS
Presentation or Blog	medium	RE-PB
Training - Creation and Delivery	medium	RE-TR

risk ₃₁		
Title	Difficulty	key
Acceptable Use Policy	medium	RI-AU
GDPR Breach Notification to EU Regulator	expert	RI-BN
Gap Analysis	hard	RI-GA
JIRA Workflows	expert	RI-JW
Risk Assessment	hard	RI-RA
Risk Frameworks	hard	RI-RF
Risk Management and Acceptance	hard	RI-RM
Transformation Programmes	medium	RI-TP

security.		
Title	Difficulty	key
Avatao for photobox	expert	SE-AE
Bug Bounties	expert	SE-88
Security Threats	expert	SE-ST
Testing Vulnerabilities	hard	SE-TV
Vulnerabilities Discovered	medium	SE-VD

setup 🕫	
Difficulty	key
medium	ST-AS
medium	ST-PF
medium	ST-G.
medium	ST-AS
medium	ST-AS
medium	ST-BP
	medium medium medium medium medium

CBEST and CREST	hard	ST-CC
ISO Standards	expert	ST-TA
PCI DSS	medium	ST-P0
Standards Advisor	expert	ST-SA

technical x24		
Title	Difficulty	key
AWS Root Key	expert	TE-AW
Authentication and Authorisation	medium	TE-AB
A CONTRACTOR OF THE PARTY OF TH		

Real work scenarios



key	difficulty	area
TE-AW	expert	technical

A legacy SVN server is found to be exposed on the internet Review of the source code identifies a number of secrets:

- · Usernames and passwords of production DBs and Servers
- · AWS key Upon review, the AWS key is active and has root privileges

Objective: Understand and contain issue(s) without any pushes to production

- You can use any technology you want (ideally ones you have experience with) and any Group Security team size
- . Describe what you would do and how you would act (ideally in diagram format)
- Who would you talk to?
- . What actions would you take to contain and remediate the issue(s)?



key	difficulty	area
RI-BN	expert	risk

Write an GDPR breach notification letter to one of the EU Regulator (for example ICO in the UK) with a breach notification for (at least) one of the following scenarios:

- 1024 PhotoBooks and cards sent to the wrong recipient.
- Customer's Usernames and Passwords available to download in S3 bucket (via exposed API key and Secret)
- HR system exposed sensitive employee data to internal employees
- · Non-opted in oustomers received marketing communications
- Another scenario that you have personal/professional experience in....

Notes

- · You have creative license to expand the chosen scenarios
- You can chose an EU Regulator from one of the four companies the Photobox Group operates (UK, France, Spain and Germany)
- It would be very interesting to see the same scenario sent to multiple regulators, where the differences between then would be highlighted

Test candidate's tech skills and CV claims



key	difficulty	area
ST-GJ	medium	setup

In order to respond to the challenges in a scalable and collaborative way, we ask candidates a Jekyll based website, which will be setup for you.

- clone the repo https://github.com/project-cx/pbx-candidate-answers
 - · if you are happy for your answers to be publicly available, you can just fork it
 - o note that GitHub charges for private repos, but BitBucket doesn't
- set-up dev/test environment (optional, but will help when writing content or modifying template)
 - if you are running locally, setup Jekyll to run the build (either on your host or us docker).
 - · If you are running from GitHub, in your repo settings, set the master brach to he



key	difficulty	area
ST-CC	hard	standards

Define your involvement with CBEST and CREST;

- · Are you a CREST certified professional?
 - · If so, which certification do you have? (and when did you take the exam
 - · What was the most interesting part of the exam?
 - · What was the most challenging part of the exam?
 - · In which area of the exam did you excel?
 - · In which area of the exam did you find difficult?
- · What kind of CBEST/CREST engagements have you been involved in?

Permanent Positions

Role	Contract Type	Location	Apply
Head of AppSec	Permanent	London, Paris, Valencia or Munich	here
Head of Detect	Permanent	London, Paris, Valencia or Munich	here
Head of InfoSec	Permanent	London, Paris, Valencia or Munich	here
Head of Risk and Compliance	Permanent	London, Paris, Valencia or Munich	here
Head of SecOps	Permanent	London, Paris, Valencia or Munich	here
PosterXXL Information Security Officer	Permanent	Munich	here
Senior Cloud Security Engineer	Permanent	London, Paris, Valencia or Munich	here
Contract Positions			
Role	Contract Type	Location	Apply
Perl Security Developer	Contractor	London, Paris, Valencia or Munich	here

SOC Engineer and Incident Response	Contractor	London and Remotely (2 to 5 days per week)
Upwork		
Role	Contract Type	Location

Upwork

коле

Technical Writer

Apply

here

Remote (up to 20h week)

HEAD OF RISK AND COMPLIANCE



Contract Type	Location	Apply
Permanent	London, Paris, Valencia or Munich	here

The Role

As the Head of Risk and Compliance, you will work alongside the Group Security management team and act as an ambassador for PhotoBox Group's compliance culture and standards, enabling the highest standards of compliance with GDPR and PCI. You will advise the company on the impact of regulation on all aspects of the business, while creating a modern risk culture powered by real time risk visualisation and monitoring.

What will you do?

- Take overall responsibility for managing and developing PhotoBox Group's risk and compliance systems
- Advise in the creation and implementation of risk and compliance policies, regularly presenting issues and recommendations.
- Ensure compliance with GDPR and PCI, and be the key point-of-contact for the four main EU Supervisory Authorities (UK, France, Spain and Germany)
- Take responsibility for all risk and compliance policies and complete annual reviews, proposing improvements to better manage risk
- Manage the further development of PhotoBox Group's risk assessment system, ensuring that each matter is managed and monitored by the appropriate system and that the various risk controls are populated
- Support investigations into any breaches or potential breaches and report on possible violations of, or legal jeopardy posed by, all regulations and statutes covering Photobox Group

Who are you?

- Well versed in the range of risk management frameworks, including but not limited to operational, financial, data protection, and information security
- Strong understanding of emerging UK and European legislation, such as IDO and GDPR, codes of practice and industry guidelines potentially affecting the Photobox Group
- Able to form close working relationships and influence senior stakeholders
- Able to operate effectively within a fast-paced organisation.
- Educated to degree level (or equivalent)

Tech Stack

- GRC, ISMS, GDPR, PCI, ISO 27001
- Security Policies, Risk Management
- Risk Visualisation
- Python, R (language)

Challenges (required)

ST-GJ

#1: Setup GitHub and Jekyll key difficulty area

medium

based website, which will be setup for you.

In order to respond to the challenges in a scalable and collaborative way, we ask candidates to use a Jekyll

- clone the repo https://github.com/projectcx/pbx-candidate-answers
 - if you are happy for your answers to be publicly available, you can just fork it

setup

- note that GitHub charges for private repos, but BitBucket doesn't
- set-up dev/test environment (optional, but will help when writing content or modifying the template)
 - if you are running locally, setup Jekyll to run the build (either on your host or using docker).
 - if you are running from GitHub, in your repo settings, set the master brach to host the GitHub pages site
- add your answers as an entry to _posts folder (see examples)
- 4. push your changes to your repo
- 5. send us an email to project-cx@photobox.com

#2: Develop and Attract Talent

key difficulty area

MA-TA hard management

MA-TA-01

Describe a time when you had to give constructive feedback to a direct report that was not well received. How did you handle the situation?

MA-TA-02

Describe the steps you have taken to foster a positive team environment that encouraged your direct reports to do their best.

MA-TA-03

Describe a time when you transformed a struggling team member into a major contributor.

#3: Programming Experience

key difficulty area

PR-PE medium programming

How much programming experience do you have?

- What languages can you program in?
- · What is your favorite language and why?
- How do you use those skills in real-work (business) situations

#4: Inspirational Leaders

difficulty

key

DC TI	hand	ranaarah
RE-TL	hard	research

area

Describe three inspirational leaders who you'd like to work for. They must be alive today.

- Tell us why you'd like to work for them
- Create a graph showing how you could get a job offer to work for them

#5: PII Data Breach

Kuy	unnounty	aiva
CO-PI	medium	compliance

By the nature of the business, our servers host our customers images and personal information i.e. name, address, email address, etc.

The following are two possible scenarios:

 Photobox has discovered a data breach that has allowed millions of our customers images to be exposed online. These images were not available in the public domain and may contain photographs of children, elderly relatives and residential property
 Photobox has discovered a data breach that

has allowed millions of our customers name.

address, password and email address to be exposed online. There is no credit card or financial information within the data breach

Of these two scenarios, which do you deem to be the most serious and why?

Key Questions

- Which of the above constitutes PII data?
- Which of the above would you report to the ICO or relevant body?
- Would you contact the customers affected in both scenarios?

#6: PCI DSS

кеу	difficulty	area
ST-PD	medium	standards

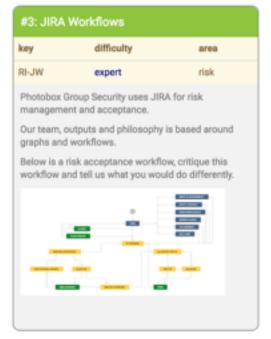
Define your involvement with PCI/DSS;

- Have you been involved in a PCI/DSS certification process
- What are your views of this standard?
 - Current version vs original versions
 What is new/interesting in the latest version?
- Where does PCI/DSS work?
 - Where doesn't it work?
 What would you do better?
- Should PCI/DSS be a company wide standard for websites that handle customer data?

Challenges (optional)







	Management and Acceptance	
key	difficulty	area
RI-RM	hard	risk
	roup Security uses JIR nt and acceptance.	A TOF FISK
Whice proce	h tools have you used	to manage this
	Was this your decision	on or a business led

HEAD OF INFOSEC

Contract Type	Location	Apply
Permanent	London, Paris, Valencia or Munich	here

The Role

As the Head of Infosec you will support the CISO with the management of the Group Security function, including all information systems related to customers, product, factory, compliance, sudit, physical, and staff security.

You will be responsible for driving the Group's enterprise security and risk management vision, strategy and programme to ensure protection of information assets and technologies.

You will lead in the creation of an accountable, information security-conscious culture and a system security architecture built on high-quality standards, as well as regular status monitoring and quality reporting activities.

What will you do?

- Consult, approve and/or validate existing business strategic directions and investment plans as they relate to the protection of systems and data
- Get the big information security risk management picture including third parties, service providers, and integrating with internal control, compliance, and risk management functions
- Setting strategic direction
- · Ensuring the privacy and protection of Personally Identifiable Information (PII) of customers and employees
- Management of IT investigations, digital forensics, e-discovery, breach response, and reaction plan responsibilities
- Information Risk Management standards and practical application using recognised standards (ISO, NIST, etc.)
- Information Security Management System (ISMS) designed to ensure comprehensive and documented assurance relevant to the organisation
- Represent the Group as the authority for security and controls to clients and customers, partners, competitors, auditors, regulators and internal stakeholders
- . Line management of sub-teams within the group security team
- . Liaise with brands under Photobox Group to support security and compliance processes
- Support the creation of KPIs for OKR setting
- · Ensure recurring processes are documented, recorded, and evidenced by relevant teams/staff
- Present to SMT/Exec on security-related concerns/developments on a regular basis

Who are you?

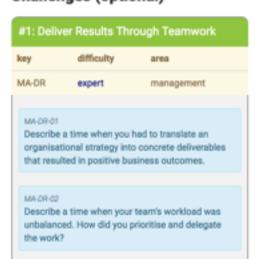
Strong technical knowledge

#4:1	Training - Creation	and Delivery
key	difficulty	area
RE-TR	medium	research
Proving	what was the subject how many people die how did you prepare you produce materia use visual aids? etc.	d you train? for this training? i.e. did is and handouts? Did you raining session again, who

key	difficulty	area
PR-PE	medium	programming
Howr	What languages car What is your favorite	e language and why? se skills in real-work

key	difficulty	area	area
SE-VD	medium	security	
could use to replicate		nem? I them? /PoCs that the develop	pers

Challenges (optional)



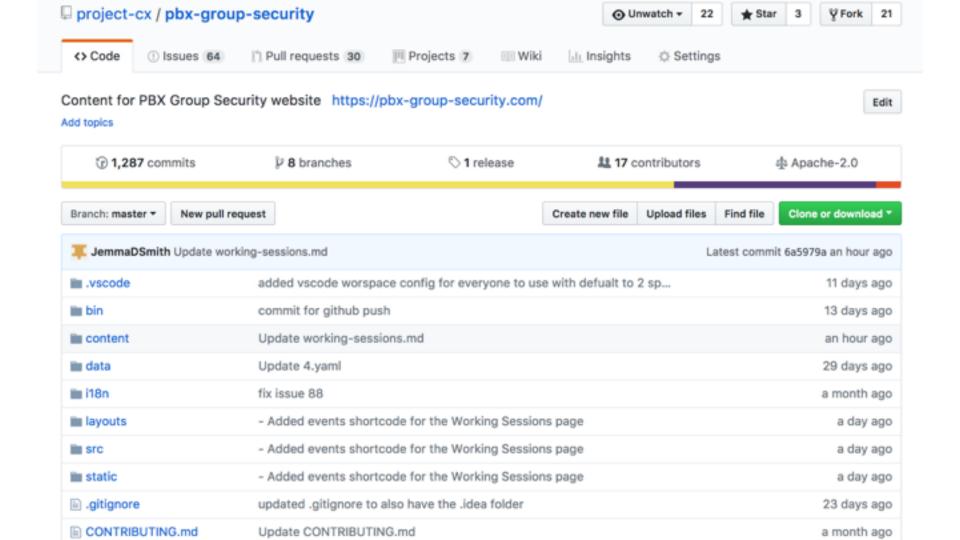
key	difficulty	area
CO-PI	medium	compliance
custome		ss, our servers host our sonal information i.e. ss, etc.
The follo	wing are two poss	ble scenarios:
ha to av ph	is allowed millions be exposed online rallable in the public	ered a data breach that of our customers image . These images were not c domain and may conta ren, elderly relatives and

· Photobox has discovered a data breach that

#2: PII Data Breach

I-RR hard low would you define a system for risk rating?	#3: Risk Rating		
How would you define a system for risk rating? Have you used one in the past? What worked what didn't work?	key	difficulty	area
Have you used one in the past? What worked what didn't work?	RI-RR	hard	
		What worked	
			e?

All content in Markdown and managed at **GitHub**



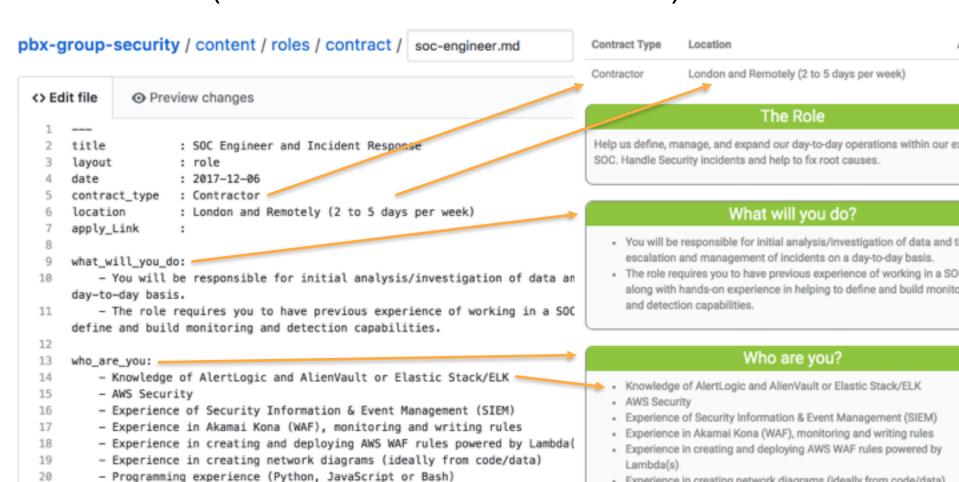
The challenge file (note the file name)

```
pbx-group-security / content / challenges / technical / TE-DA-darktrace-alert.md
  <> Edit file

    Preview changes

                                                                                                                         Soft wrap
                                                                                                                2
                                                                                                                    $
                                                                                                   Spaces
        ___
                    : Darktrace Alert
       title
       key
                    : TE-DA
                    : technical
       area
       difficulty : hard
       skills
                    : Briefing, Analysis, Planning
        ___
       DarkTrace (AI-based network IDS) raises an alert caused by the download of an unknown executable by a user with administrator
       privileges. Further analysis of DarkTrace logs for the affected device shows unusual network activity.
   10
   11
       Describe how you would proceed to achieve the same understanding in TechOps, DevOps, Business, and Management.
   12
   13
       *Bonus points for mapping what could be the possible malicious and non-malicious (benign) root cause of this incident*
   14
       **Objective: Understand and contain issue(s) without any pushes to production**
   15
   16
       * You can use any technology you want (ideally ones you have experience with) and any Group Security team size
   17
       * Describe what you would do and how you would act (ideally in diagram format)
   18
       * Who would you talk to?
       * What actions would you take to contain and remediate the issue(s)?
```

The role file (note the content as metadata)



Challenges mapping is easy

```
tech_stack:
25

    AlertLogic and AlienVault or Elastic Stack/ELK

    AWS, Akamai, WAF, Lambda

         - Risk Visualisation
         - Python, Javascript, Bash
         - Kibana, Grafana or Nagios
30
31
     challenges_required:
32
         - ST-SA-github-and-jekyll.md
          - CP-CB-collaboration.md
34
         - PR-LE-lambda-stop-ec2.md

    SC-VD-vulnerabilities-discovered, and

    PR-PE-programming-experience.md

         - RE-IR-interesting-research.md
38
39
     challenges_optional:
         - TE-LA-log-analysis.md
         - PR-VS-ec2-with-vuln-site.md

    TE-DB-dashboards.md

          - CP-PL-planning.md
         - TE-DA-darktrace-alert.md
         - TE-AW-aws-root-key.md
```

Challenges (required)

 If you are running boody, setup Jelyf to not the build feither on your host or using



Its Vulnerabilities Discovered

Iny difficulty pres

55.VB medium proority

What lited of nulnerabilities have pas discovered in
real-world applications?

I like the gray fool them?

I like the gray reaport them?

I like the gray reaport them?

Did you write teach/finch that the densispers
could use to replicate the issued

Did you excite the scale.

Customised candidates page



Welcome to your Challenge page

Thank you for your application with Photobox Group Security.

The next stage of the recruitment process is to complete multiple challenges that have been hand-picked for you. Your challenges are based and your previous experience.

Unique ID

You'll have been provided with a unique ID in the subject line of your challenge email, this allows you to remain anonymous during your particl reference this ID in any communication about this role with Photobox.

Your Current Challenge List

- Security Threats
- Testing Vulnerabilities
- EC2 with Vulnerable Site
- Presentation or Blog
- Log Analysis

How to Submit your answers

Please submit your answers using a clone of this GitHub repository, which is a Jekyll based website. You can find more detailed instructions I

Think agile and incremental changes

Your first priority should be to:

- set up the website
- make a simple change

Challenge Details

#1: Security	#1: Security Threats		
key	difficulty	area	
SE-ST	expert	security	

- What methods of identifying security threats have you been involved with? - what is your typical role within this scenario?
 - What is your preferred method of identifying security threats?
 - explain why
 - Have you automated systems for identifying security threats?
 - . If so, please describe

#2: Testing Vulnerabilities		
key	difficulty	area
SE-TV	hard	security

In order to (1) conclusively show existing security vulnerabilities (and the various ways they can be exploited) and (2) once the code has been modified to exclude them, prove that this has been done, how would you set up automated tests?

- What kinds of things would you include in your tests? How would you replicate the security issues?
- Would your tests pass or fall when the vulnerabilities exist? When they no longer exist?
- How would you ensure that the tests would catch new instances of similar vulnerabilities?
- Can you provide a diagram of your solution (optional)

#4: Presentation or Blog

key	difficulty	area
RE-PB	medium	research

Create a blog post or presentation about a technical or business-related book you have read recently which inspired you.

Book suggestions:

- New Rules for the New Economy: 10 Ways the Network Economy is Changing Everything by Kevin Kelly
- Graph Databases: New Opportunities for

#5: Log Analysis key difficulty area

expert

You are given 5 GB, 50 GB or 500 GB of nginx server logs (pick the one you are most comfortable handling). These logs cover a period when we know a high level vulnerability was exposed.

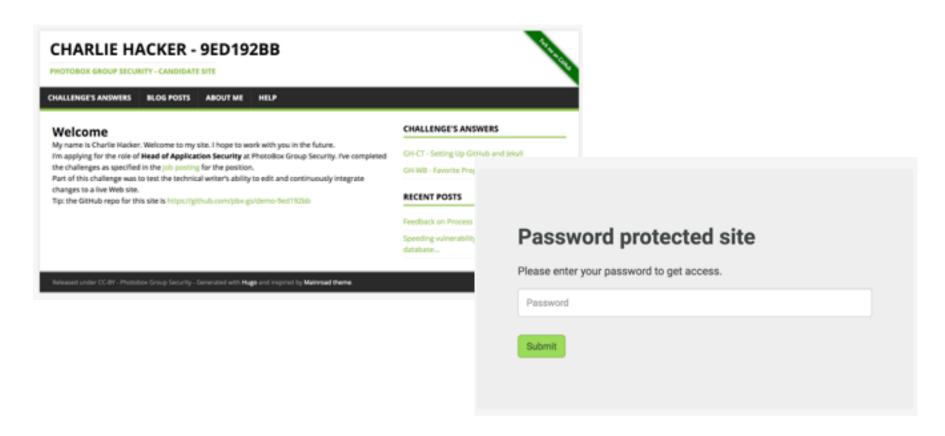
technical

Your job is to:

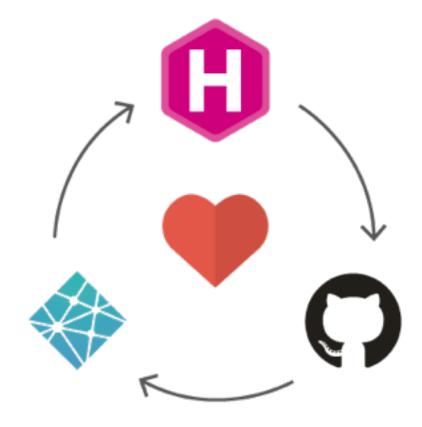
TE-LA

- build an AWS-based infrastructure to consume, query, and visualise the data
- 2. find proof if that vulnerability has been euploited

Candidate answers provided via Hugo site



Using Netlify for Candidates website's CI





Photobox Group, working with OWASP London Chapter, is hosting a number of working sessions to continue the great work done at the OWASP Summit 2017, and collaborate and share our knowledge on the following themes;

- · Playbook common format
- SAMM
- · GitHub security feature request
- · GDPR and DPO AppSec implications

If you have a session idea email your suggestion to us

Book your place now

Pebruary

20

March

20

April 3

Latest research and capabilities on this repo

