# Startup Security 2.0

The definitive guide to security at hyper growth startups, by someone who lived to tell the tale.

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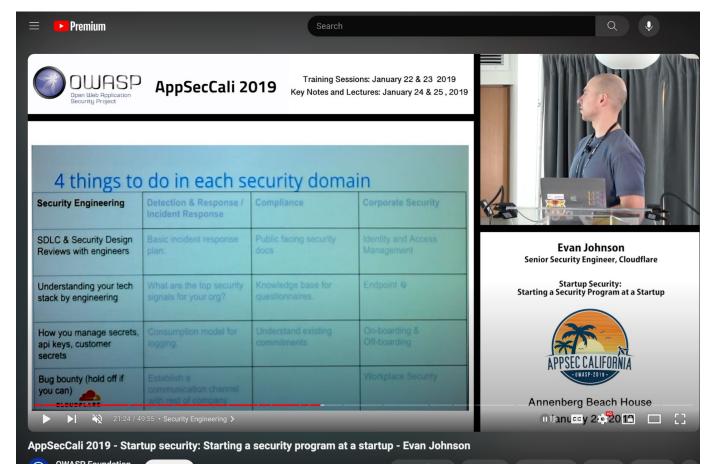
#### \$(whoami)

- 2015-17 First Security Engineer at Cloudflare
- 2017-18 First Security Hire at Segment

- **2018 2022** Cloudflare, Sr Director of Security Engineering
- **2023 20XX** Cofounder CEO of RunReveal



### Version 1 - 2019



### **Version 2 - 2024**

> install getting-started \
 growth-career \
 avoiding-problems

> update technical-roadmap \
generic-todo

# Why work at a startup?

> Personal Growth

> Enjoyment

> Potential riches beyond your wildest dreams

#### Not...

> Compensation

> Work life balance

> Internal stability

## Game plan

- > Build relationships...
- > Solve problems quickly...
- > Adapt and repeat...

# Imagine... you're logging your first day of work at...



### Your first 30/60/90 are critical

Q Search



TACKLE THE FIRST 90 DAYS OF YOUR NEXT ROLE: A 5 STEP PROCESS FOR SUCCESS ON THE JOB



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Rebecca CarnahanCareer & Professional Development

**Resources & Tips Transitions & Paths** 

Congratulations! After months of networking, interviewing, and sending out resumes, you've landed your next role. This is a huge accomplishment!

#### 30 Days

- Meet your stakeholders
- Understand company goals
- Develop an idea of what you want your first goal will be.

#### 60 Days

- Regular cadence to communicate with your stakeholders
- Should have a clear path to accomplishing something
- Should be mentally having a picture for what the roadmap / problems for the company are.

#### 90 Days

- SHIP Something!!
- Your stakeholders should know who you are and what you do.
- You should be working on your next thing
- Some high-level goals / roadmap

# Words of encouragement for our CISO friends

# Words of encouragement

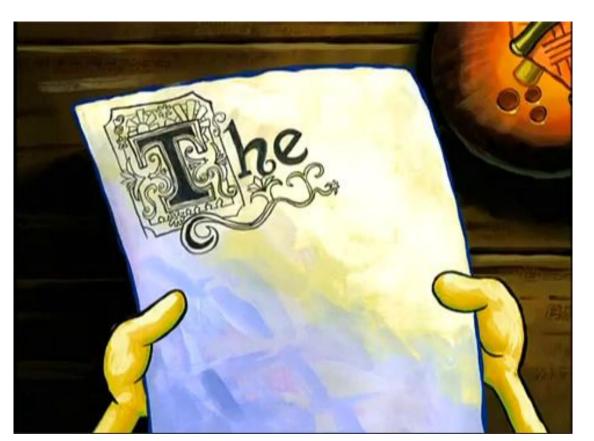
for our <u>engineer</u> friends

#### Your behaviors are critical

> cowsay celebrate-achievements

- > vim communicate-clearly.md
- > openssl connect with-others

#### What not to do



Security Engineering	Compliance	Detection & Response	Enterprise Security
SDLC / Security Design Reviews	Review your sales contracts	Collect your logs	Yubikeys / Webauthn
Cloud Fundamentals	Establish Security Knowledge Base	Figure out what matters to your company	Endpoint
Product Security	Compliance in a box	Establish Communication Channel	Onboarding / Offboarding
Build something	Top Risks	Basic Incident Response Plan	Identity and Access Management

#### Security Engineering

- > Cloud / Application / Infrastructure, never ends.
- > Product Security
- how is your service used
- how does it work securely
- > Engineers should engineer, even if it's uncomfortable
- > Don't create toil

(be careful with bug bounty, scanners, etc)

#### Governance, Risk, and Compliance

- > SOC2 / Compliance is more common, which is good.
- > Top Risks
  - Some cadence of discussing top risks with leaders

#### > Sales enablement

- If you're selling, you'll need security info
- You need external facing info / info to

#### Detection and Response

- > Centralized Logging.
- > Establish a basic process
- Place to report (sirt@, dnr@, some alias)
- Triage / handling process
- Involving the right people
- Resolution
- > Know your assets
- > Endpoint Detection (when ready)

#### **Enterprise Security**

- > There is no excuse not to have yubikeys / webauthn
- > Single Sign On
- > Onboarding / Offboarding
- > Any other really big issues you see?
- SaaS? Endpoints?

Engineering		
SDLC / Security Design Reviews  - Get involved in what's shipped by working with product / engineers - Be a part of the process		
Cloud Fundamentals  Secrets management API keys		

What have you agreed to?

· What representations have

you made externally?

Compliance

contracts

Review your sales

Collect your logs · Collect the easy logs, GCP, CloudTrail, Google

you probably don't have

Figure out what matters

The basics are generic

customer data / etc

· What are your critical assets /

Start with "Front page test"

your company, "Security

· Make sure you have an idea

let them know

of who else you'll pull in, and

to your company

**Detection &** 

Response

Workspace, Azure, Okta, Etc. · You need to know what logs

**Endpoint** 

**Enterprise Security** 

Yubikevs / Webauthn

You MUST do this.

· The longer you wait, the

more painful it will be later.

In the work from home world,

this is critically important.

If you want to go Zero Trust,

endpoint protection /

validation is 2/6 of the

beyondcorp papers

ud Fundamentals **Establish Security Knowledge Base** Secrets management

· Configuration / surface area. · Place where sales / customer · Key security controls facing teams can provide correct information

· General security overview

Compliance initiatives have

· It's only half of the story,

· Keep tabs of your top risks.

increase over time, but you

should be aware of what your

The formality of this will

ever.

Top Risks

gaps are.

gotten easier to achieve than

Compliance in a box

**Establish Communication** Channel

You need to be able to

communicate with the rest of

Onboarding / Offboarding

 You need to be friends with IT. Many security folks end up being responsible for IT This should be really easy /

nailed down.

though. hotline" (sirt@) Overall a net-positive

Plan

**Basic Incident Response** 

**Identity and Access** Management

offices.

Especially important in this

"zero trust" world with no

· Work to unify the tech side.

 What does your product do and why is it secure? · Figure out the critical

API keys

**Product Security** 

security bits, auth flows,

your customers

· Get involved in what's

product / engineers

· Be a part of the process

shipped by working with

**Build something** 

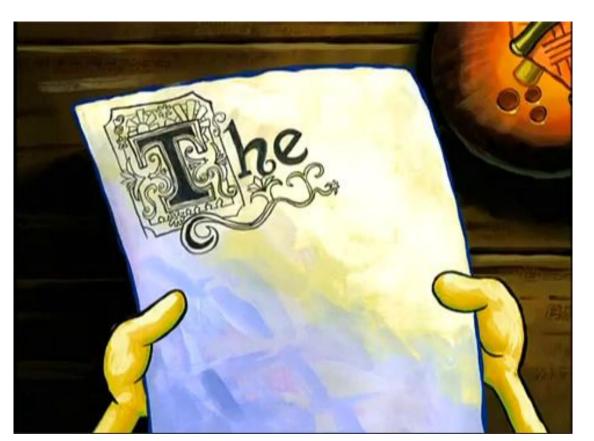
what heavy lifting you do for

Security



Your Security Story

#### What not to do



Bob (the) Builder



Scrooge McDuck



Choose your fighter (carefully)

# Unsolicited Career Advice

#### **For Traditional CISOs**

If you come from a big company, you may need to adjust to the pace. Things move fast and you need to move fast too.

You will have a smaller budget / less resources than you're used to. Adjust to survive.

#### **For Engineers**

Don't mistake being productive with being ready for the next level / head of security / CISO roles. But also don't be afraid to seek the level of recognition you deserve.

Be humble and work well with others, be the squeaky wheel, and don't rush to management.

#### For Managers

The more you know, the better. If you have the skillset / time to be a player coach at first, you'll be better off in the long-run having the engineering experience at that company.

Go out of your way to build a diverse team

# **Ending Thought**

Good security looks more like what happens at a startup than at a MegaCorp.