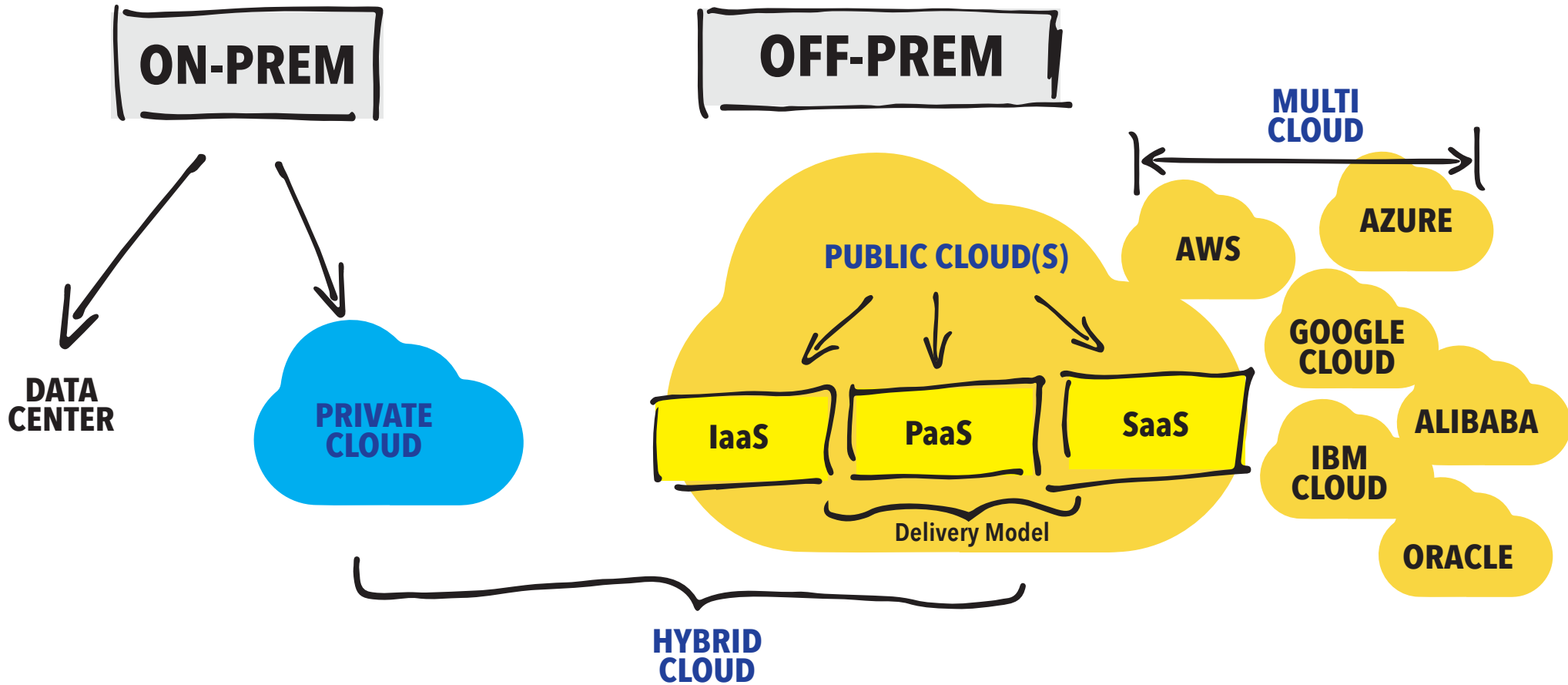
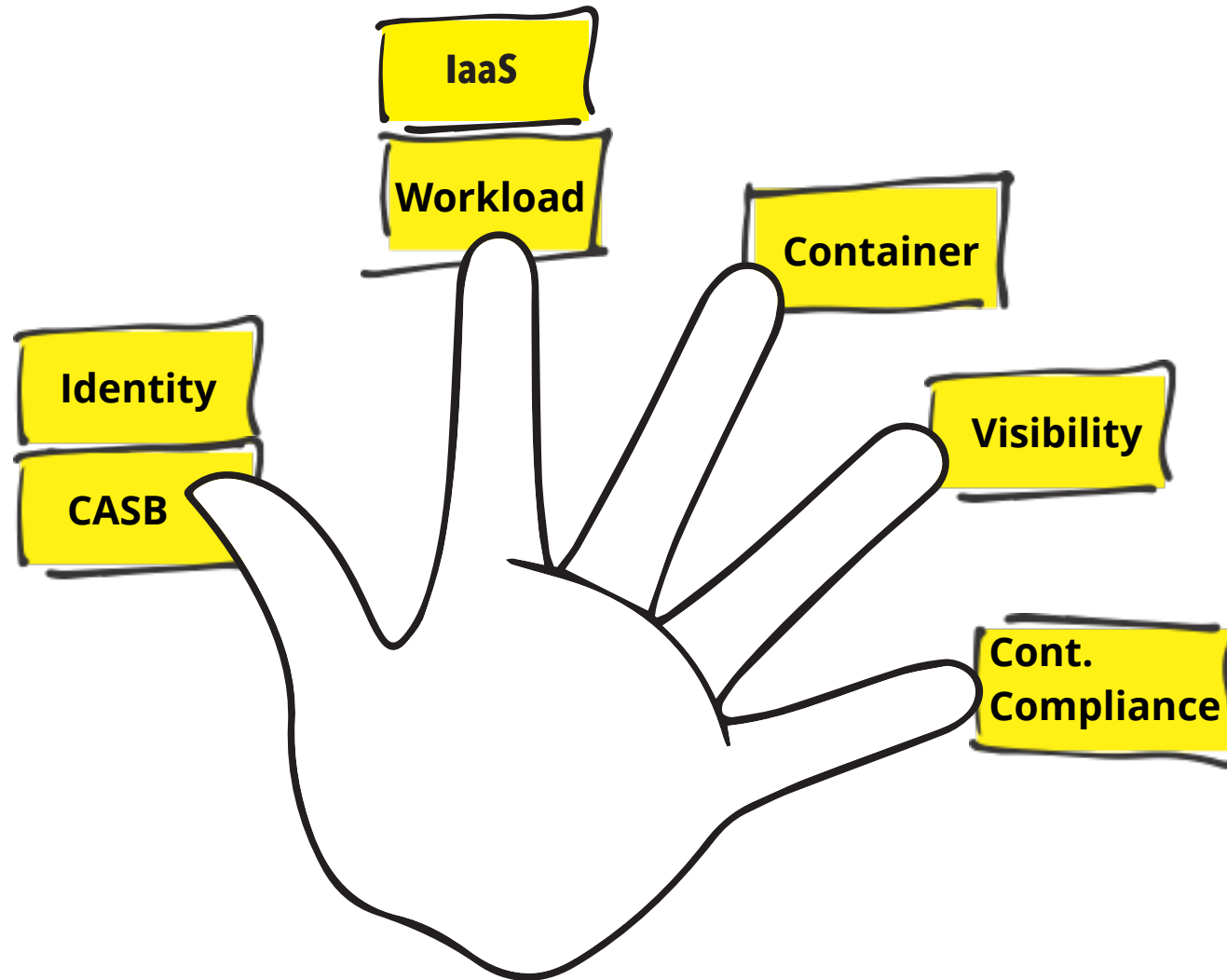


Continuous Compliance

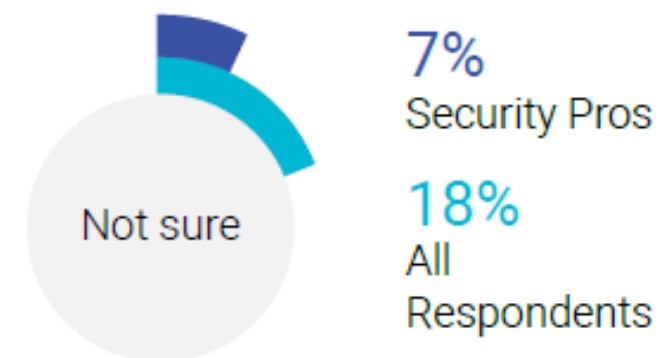
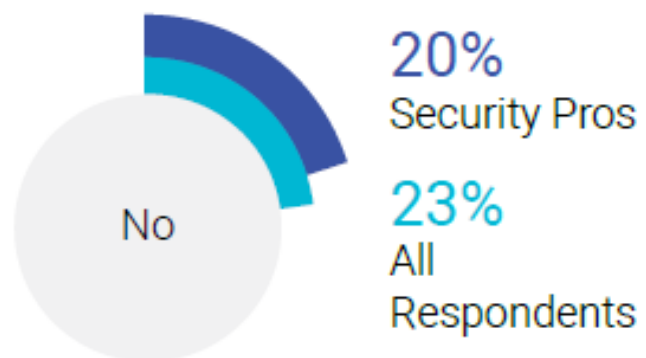
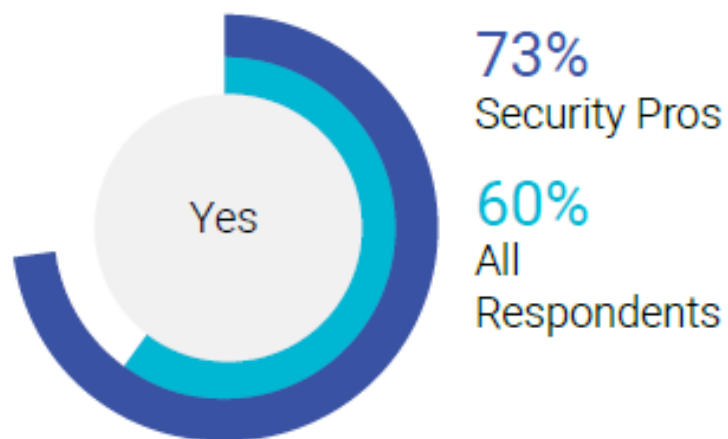
Borna Cisar



Where are we, so far?

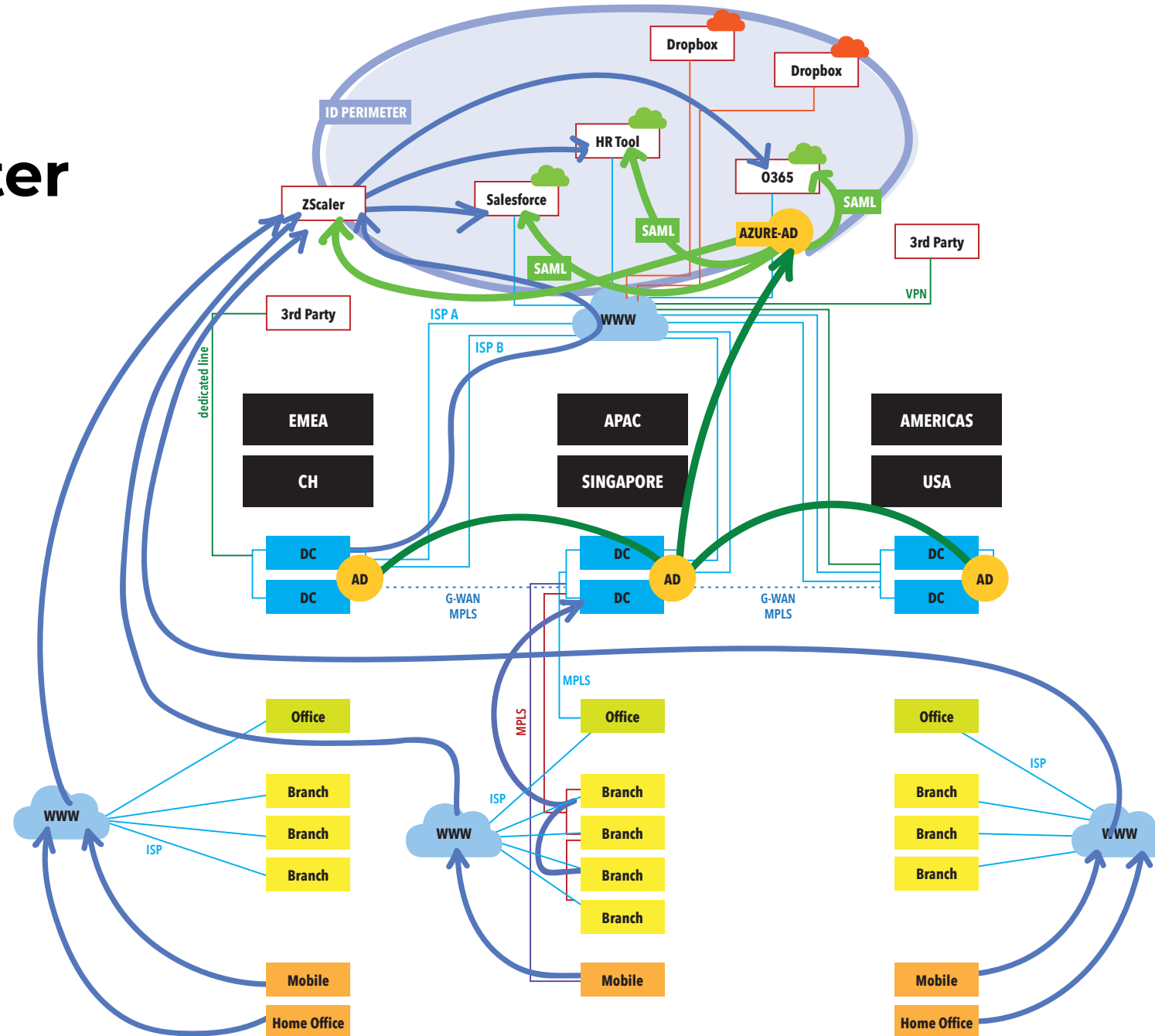


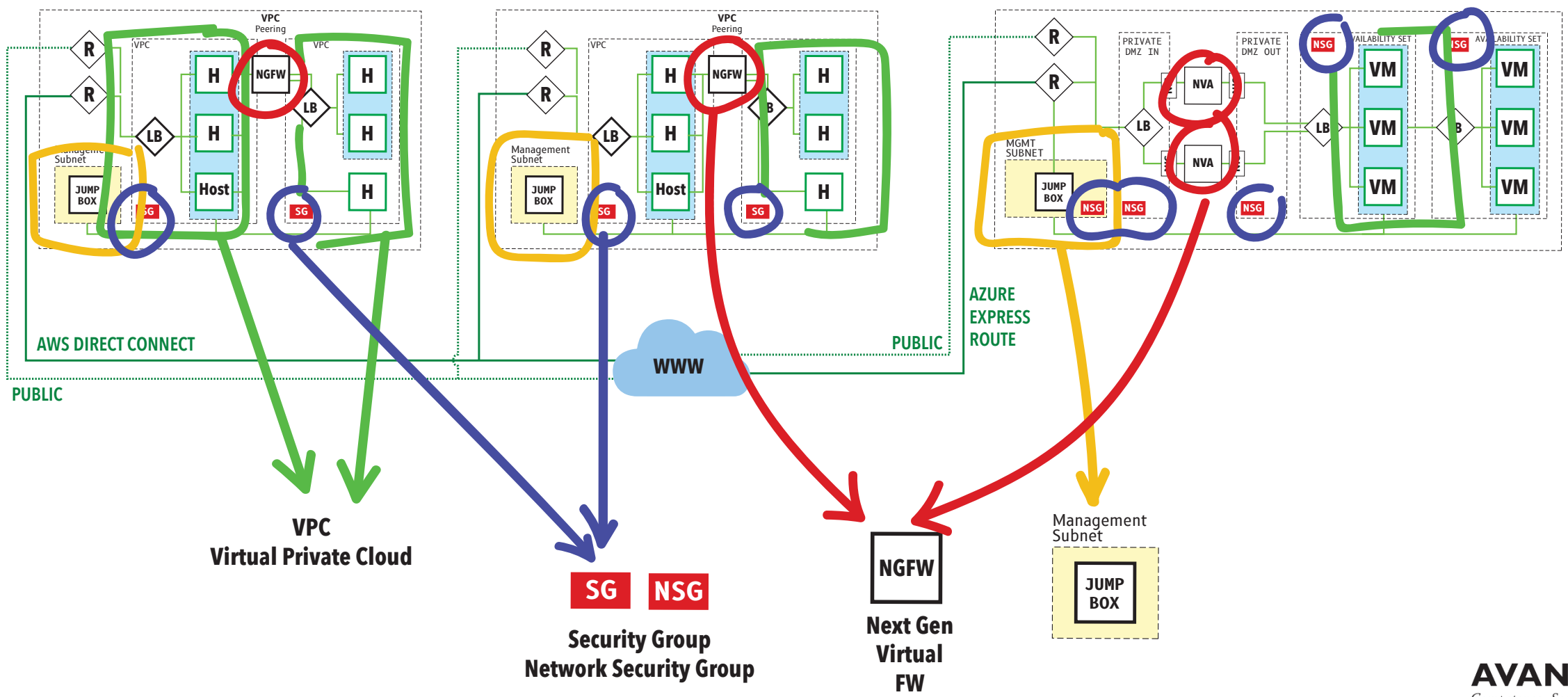
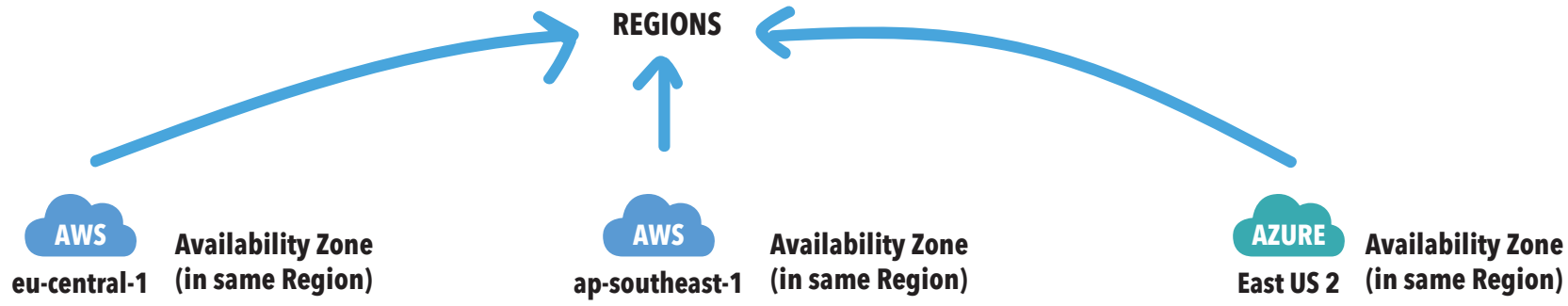
Does your org need to manually configure security policies for Applications in the Cloud?



2018 Report: State of Securing Cloud Workloads

Identity Perimeter And CASB

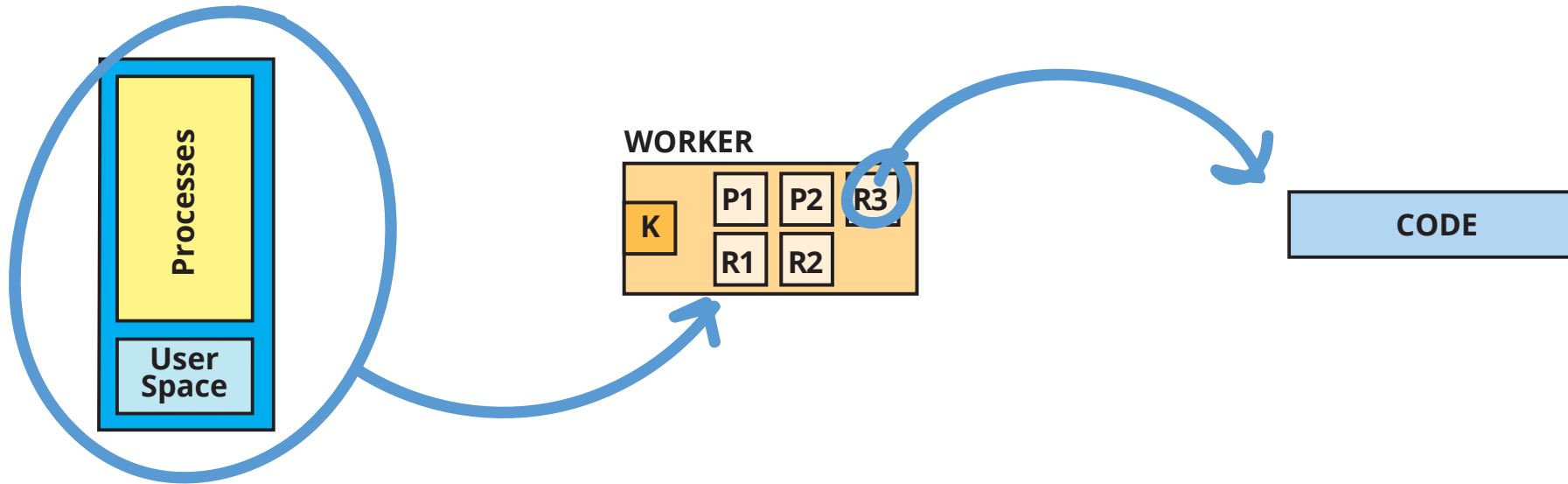




Container

Kubernetes

Serverless



Lambda Function

VPC Flow Log version

Elastic Network Interface

Destination IP

Destination Port

Number of Packets

Log Status

is talking to

a known malicious destination

Timeframe (in seconds)

2 270870580655 eni-6d25f24c 172.31.100.49 178.137.87.242 80 57379 6 15 1843 1496697675 1496697715 ACCEPT OK

AWS Account

Source IP

Source Port

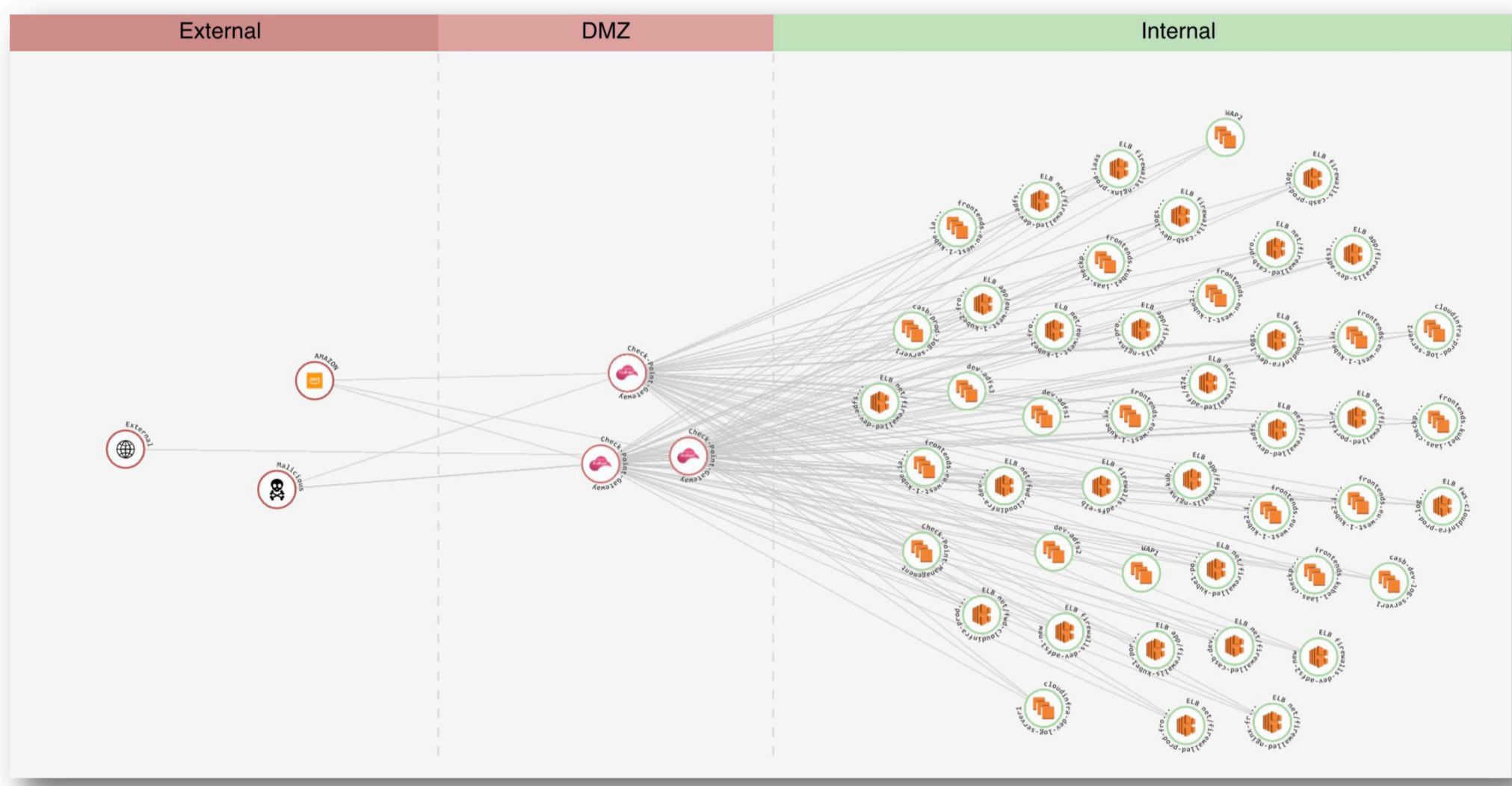
IP Protocol

Bytes

SG or NACL action

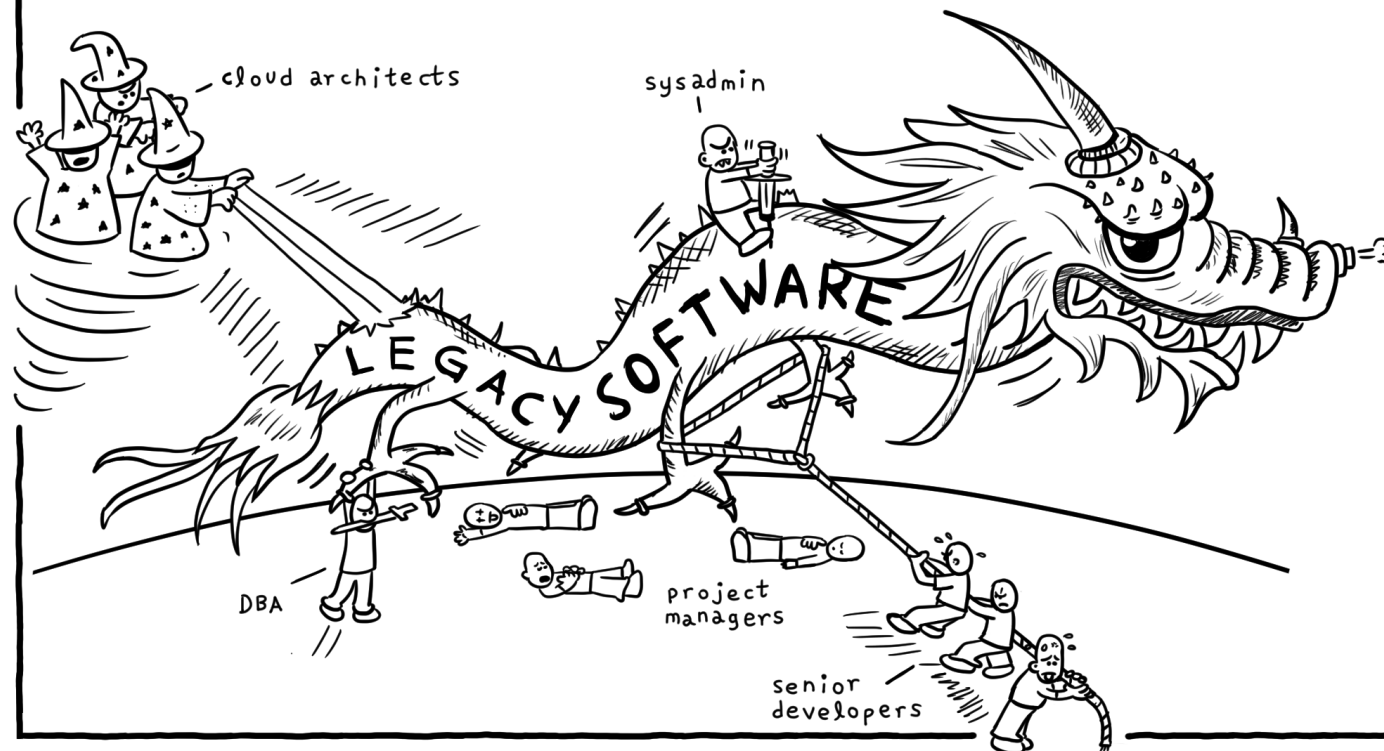


Lambda function is sending outbound traffic over port 80 to a malicious IP address 178.137.87.242



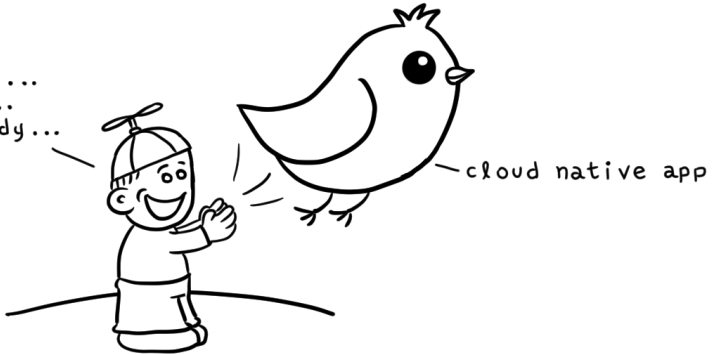
How shall we handle all of this?

The Enterprise Journey to Cloud



Startups Journey to Cloud

rails scaffold...
heroku deploy...
fly little buddy...



Daniel Stori {turnoff.us}
Thanks to Michael Tharrington

How will we handle all of this?

**That's where the strength of the
Cloud Native approach lies.**

**Look at the “Control Plane” of the
cloud.**

How will we handle all of this?

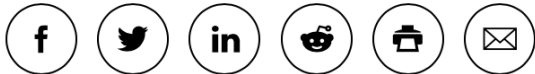


March 12, 2019

Dozens of high-profile Box accounts found leaking sensitive data

Robert Abel Content Coordinator/Reporter

[Follow @RobertJAAbel](#)



March 5, 2019

Docker API vulnerability allows hackers to mine Monero

Doug Olenick Online Editor

[Follow @DougOlenick](#)



Exposed Docker hosts can be exploited for cryptojacking attacks

Charlie Osborne 3/5/2019

How will we handle all of this?

VISIBILITY

- Assets
- Applications
- Network

- Security Posture

CONTINUOUS COMPLIANCE

- Continually assess the state of your assets, applications and infrastructure

- Enforce best-practices and automatically correct against security standards

Platform

- Add Scanning
- Add threat intelligence

Developers

CI/CD Pipeline

Security shifting “Left”

But are you prepared?

Can you secure “at cloud speed”?

Can you integrate with code?

Continuous Compliance

= Continuous Security*

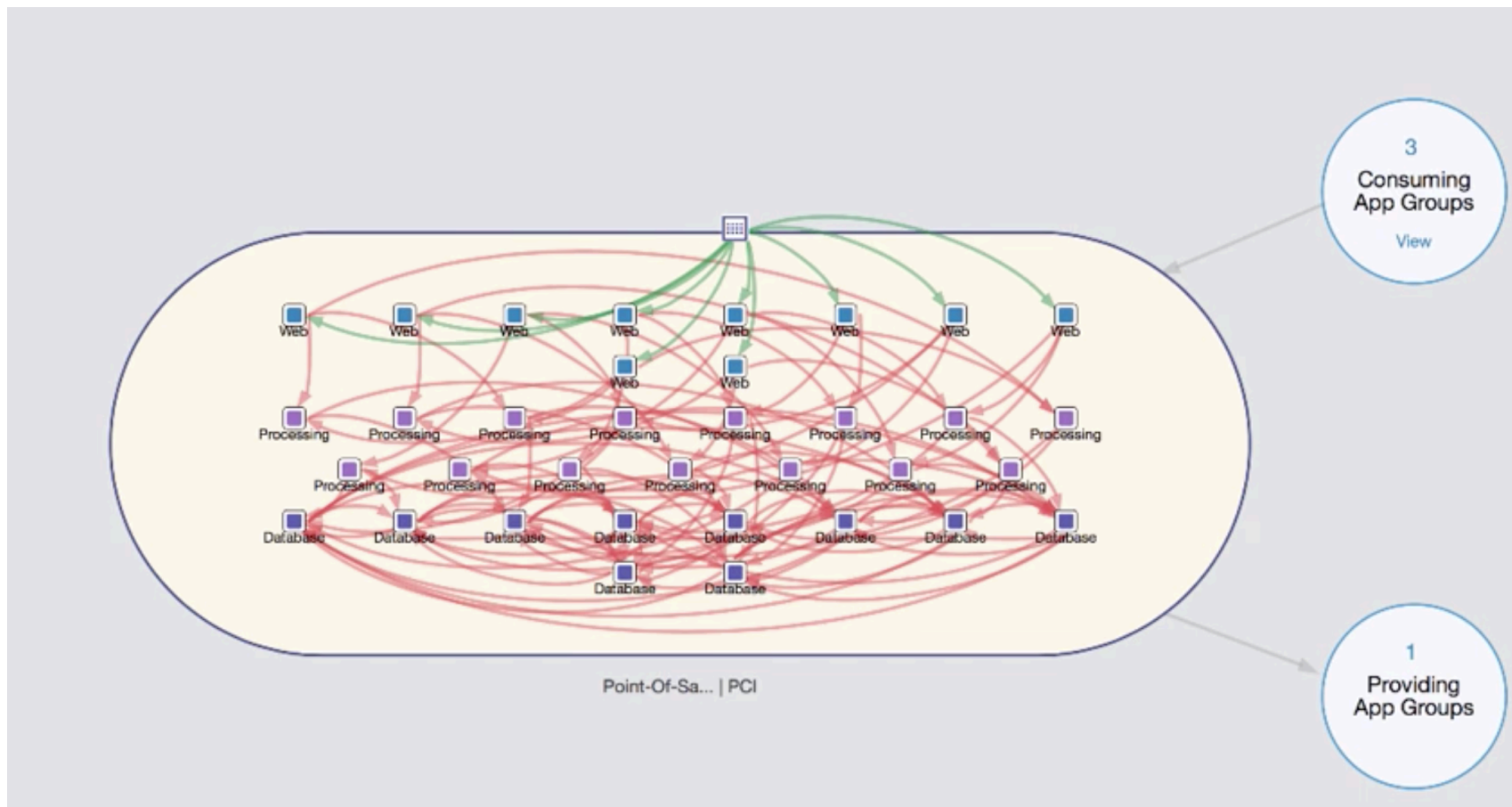
* Oversimplification for the sake of the presentation

Visibility

The screenshot displays the Dome9 Clarity interface for an AWS environment. The top navigation bar includes 'Protect', 'Network Security', 'IAM Safety', 'Dynamic Access', 'Clarity', 'Compliance & Governance', and 'Users & Roles'. The breadcrumb trail shows 'Clarity home / AWS Prod / Oregon / Main Demo VPC / DB servers'. The main area is a network diagram divided into zones: External Zone, DMZ, Partially Open, Effectively Internal, and Internal Zone. The diagram shows traffic flow from external sources through various security groups and services like LB-Web, monitoring, WebServers, App1 Servers, App2_ApplicationSe..., Lambda-SG, Web Monitor, Application-Load-B..., and DB servers. A right-hand sidebar lists security groups and rules, including 'DB servers', 'Instances: (2)', 'RDS: (1)', 'Inbound Rules: (3)', 'Outbound Rules: (1)', 'Sources: (3)', and 'Targets: (3)'. Below the diagram is a traffic log table with columns for Source, Source Port, Destination, Dest Port, Protocol, Packets, Bytes, Time, and Action.

Source	Source Port	Destination	Dest Port	Protocol	Packets	Bytes	Time	Action
181.214.87.34	44069	DB1	52010	TCP	1	40	May 15th 2018, 06:14:12 pm	REJECT
185.12.177.28	5061	DB1	5060	UDP	1	376	May 15th 2018, 06:14:12 pm	REJECT
117.198.216.121	0	DB2	0	ICMP	1	56	May 15th 2018, 06:14:50 pm	REJECT
71.6.135.131	29011	DB2	9295	TCP	1	44	May 15th 2018, 06:14:50 pm	REJECT

Visibility



**Automatic discovery
(Assets are tagged)**

**Compliance
Against standards**

**Auto-remediation
Desired state-management**

**Enforcement
(automatic enforcement)**

On all platforms



**Enable declarative
Security**

**Automate policies through
Scripting language**

**Work with
The developers**

DevSecOps

**Leverage strength of
Cloud-native**

**Understand your organisations
Security posture**

**Work continuously and
Automatically on security**

Remember that...

“Through 2020, **95%** of cloud security failures will be the **customer's fault.**”

NOT ANYMORE!

Gartner

Thanks for your time