

Dome9 Security

THE PUBLIC CLOUD SECURITY COMPANY

The Evolving Threat Landscape in the Public Cloud

Andy Schwabecher, Head of Cyber & Cloud Strategy at
SoftBank Corporation

Roy Feintuch, CTO and Co-founder of Dome9 Security



Introduction



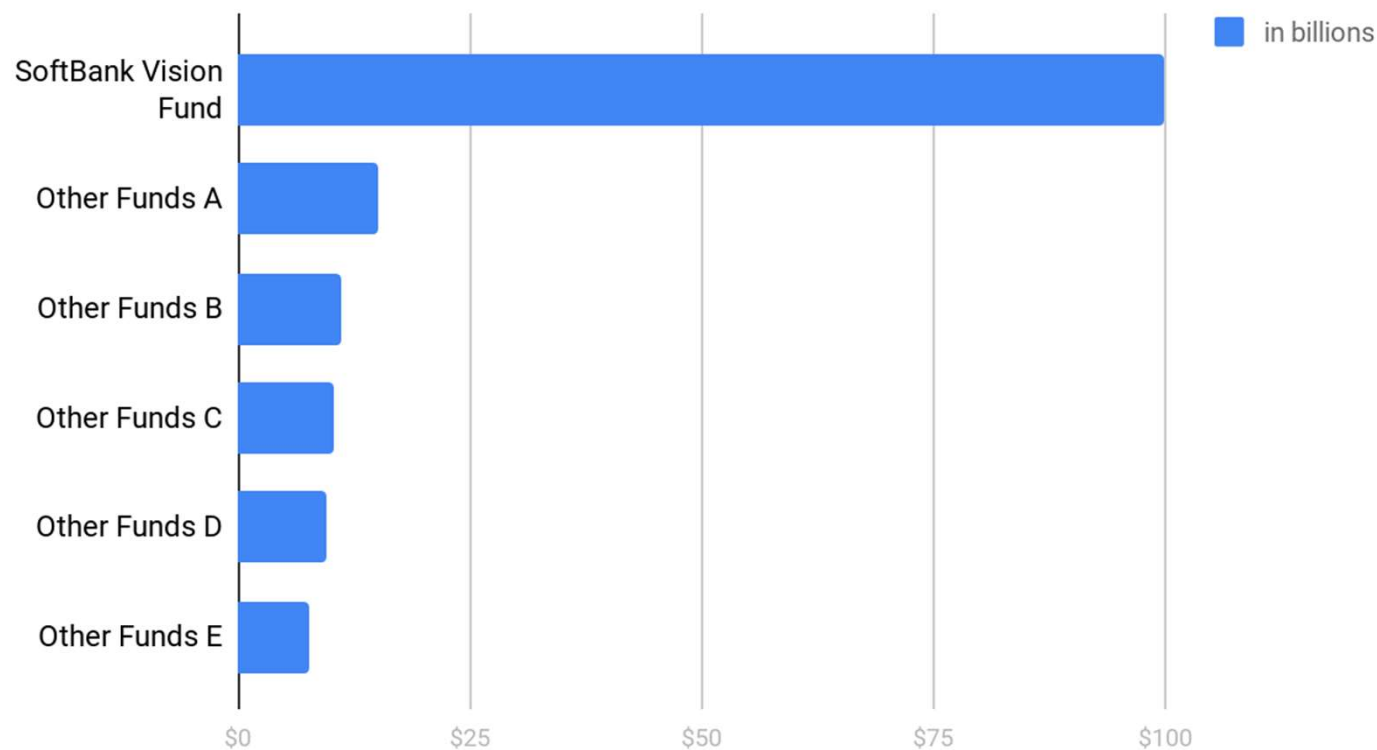
Andy Schwabecker

— SoftBank

VP, Business Development Unit
Cloud & Cyber Strategy Div Head
SoftBank Corp.

Largest Tech Fund Ever Raised Globally

World Top Funds Ranking



2

Note: Data is Estimated. Funds listed invest primarily in tech and may have investments in other sources.

Source: SoftBank; Preqin; The WSJ.

SoftBank and AWS Relationship

Our Investment Portfolio Depends on AWS



A Common Goal: Enhanced Public Cloud Security

Let's make the Cloud Safer...



Public Cloud



***More Workloads
Running on AWS
in Japan!***





SoftBank and Dome9 Partnership

- *Accelerate AWS Adoption in Japan*
- *SoftBank Portfolio Companies and Customers all use AWS*
- *Dome9 can Protect against AWS Nightmare Scenarios*
 - *Customer Data Leak*
 - *AWS Credential Exposure*
 - *Human Error Resulting in Publicly Exposed Backend Services*
 - *Kinesis Queue, RDS Instance, Lamda Functions, etc*



Dome9 Japan Launch May 2018

➤ **Service Available in Japan on 28th May 2018**

- Localized User Interface & Documentation
- Domestic Japanese Support Team
- Domestic Billing in Japanese Yen

➤ **Free Trial Available inclusive of Domestic Support**

- 60 days / Full Functionality

Introduction



Roy Feintuch, Co-founder, CTO



Co-founder, CTO, Dome9

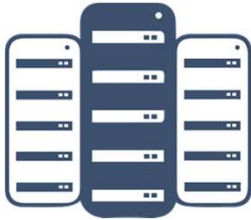


Chief Architect, DV-Tel

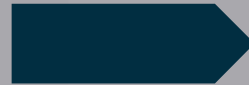


Captain (Reserve), Israel
Defense Forces

The public cloud changes everything

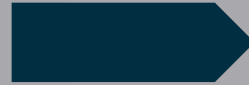


Sole Responsibility



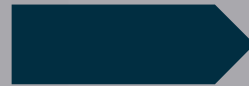
Shared Responsibility

Stable Network Perimeter



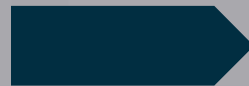
Fluid Perimeter

Custom software services



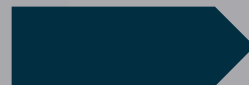
Platform-managed services

Monolithic Applications



Microservices Architecture

Development cycles in weeks/months



DevOps cycles in days

Security is a shared responsibility

Gartner®



Customers

Customer content

Platform, Applications, Identity & Access Management

Operating System, Network & Firewall

Client-side encryption implementation, Server-side encryption,
Network Traffic Protection

Security
in the
cloud

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

AWS Foundation Services

Compute

Storage

Database

Networking

Security
of the
cloud

“Many cloud service providers invest heavily in incorporating higher levels of security into their products to continue building confidence that their data is more secure.”

AWS Global
Infrastructure

Availability Zones

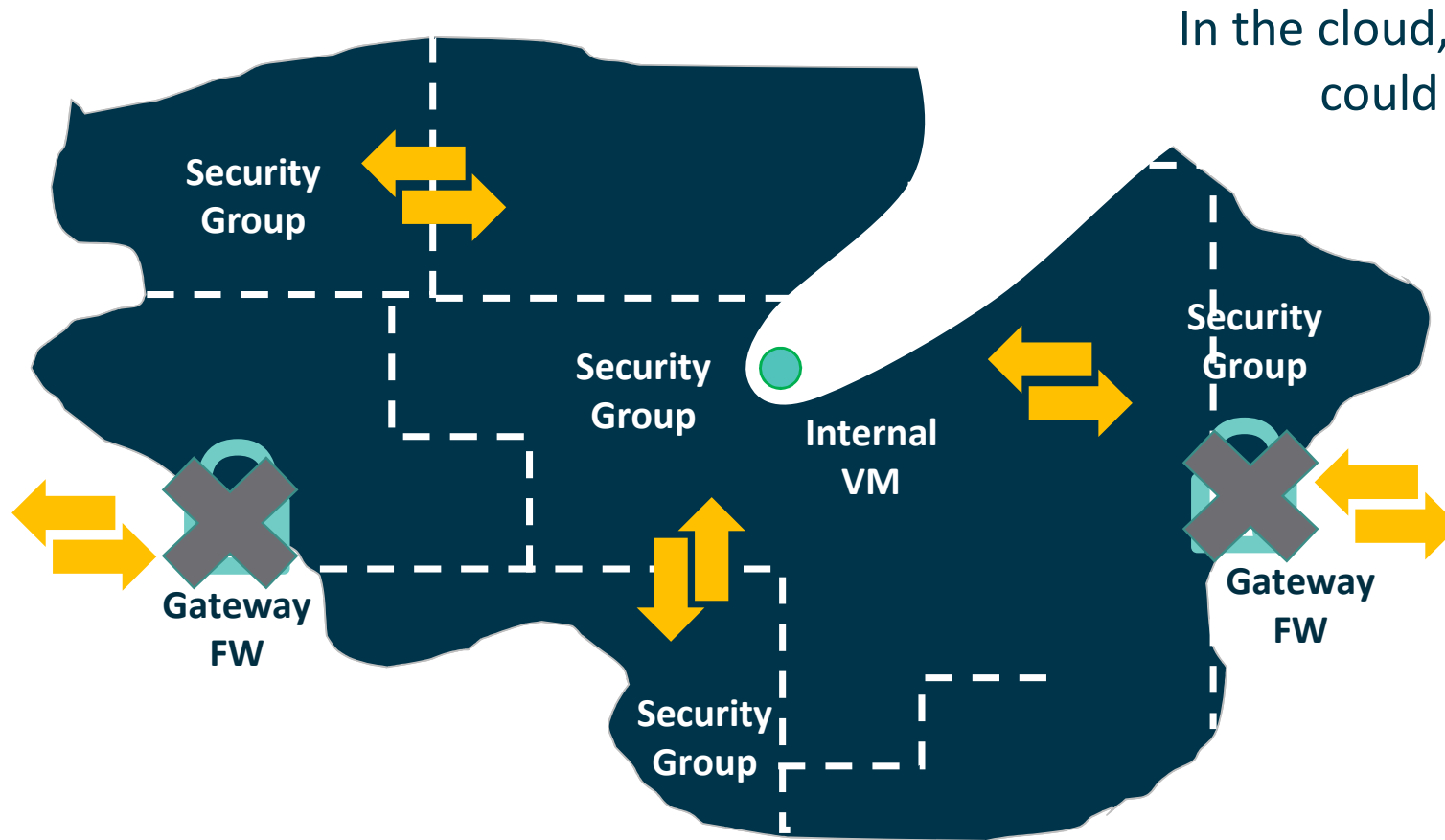
Regions

Edge Locations

Solution: Clear Understanding of What A Customer is Responsible For



Network gateway devices don't work in the cloud

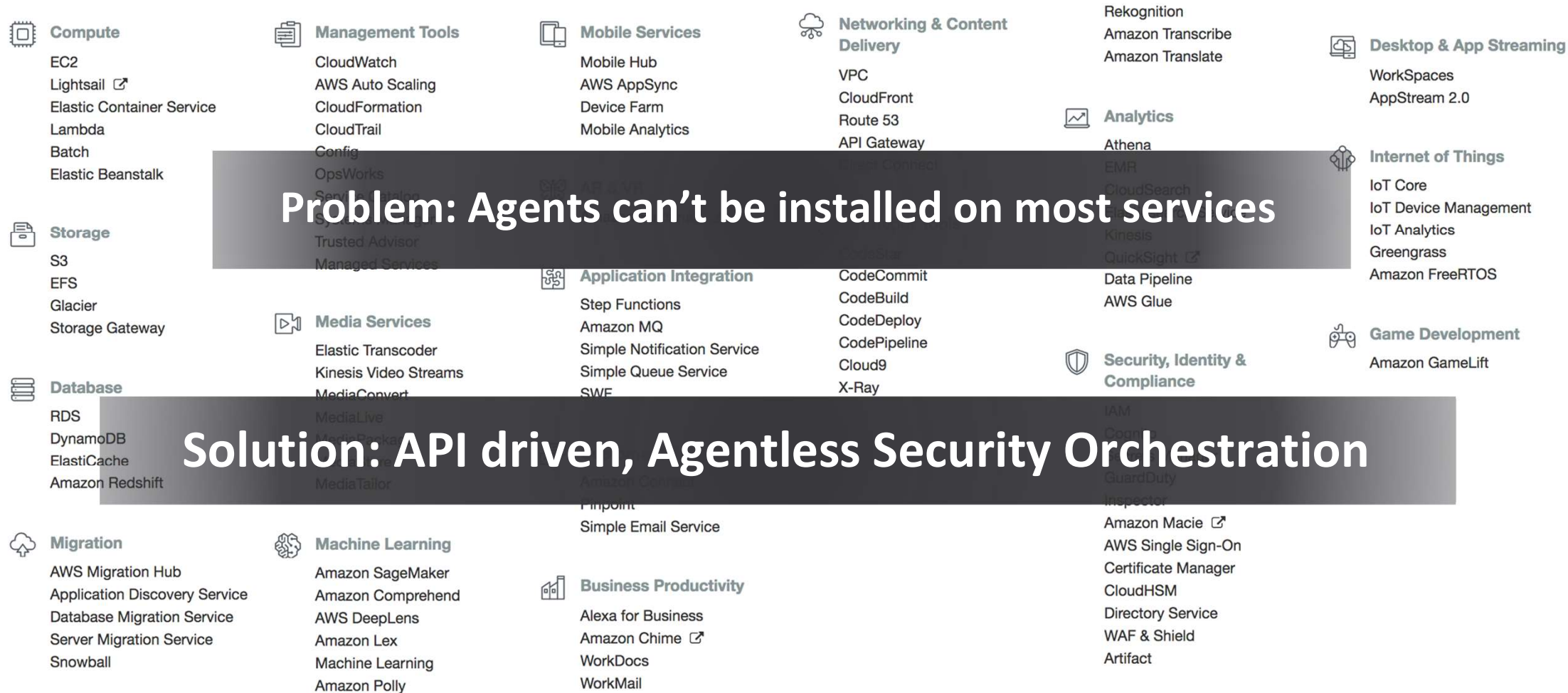


In the cloud, a **single** configuration change could expose the asset to the public

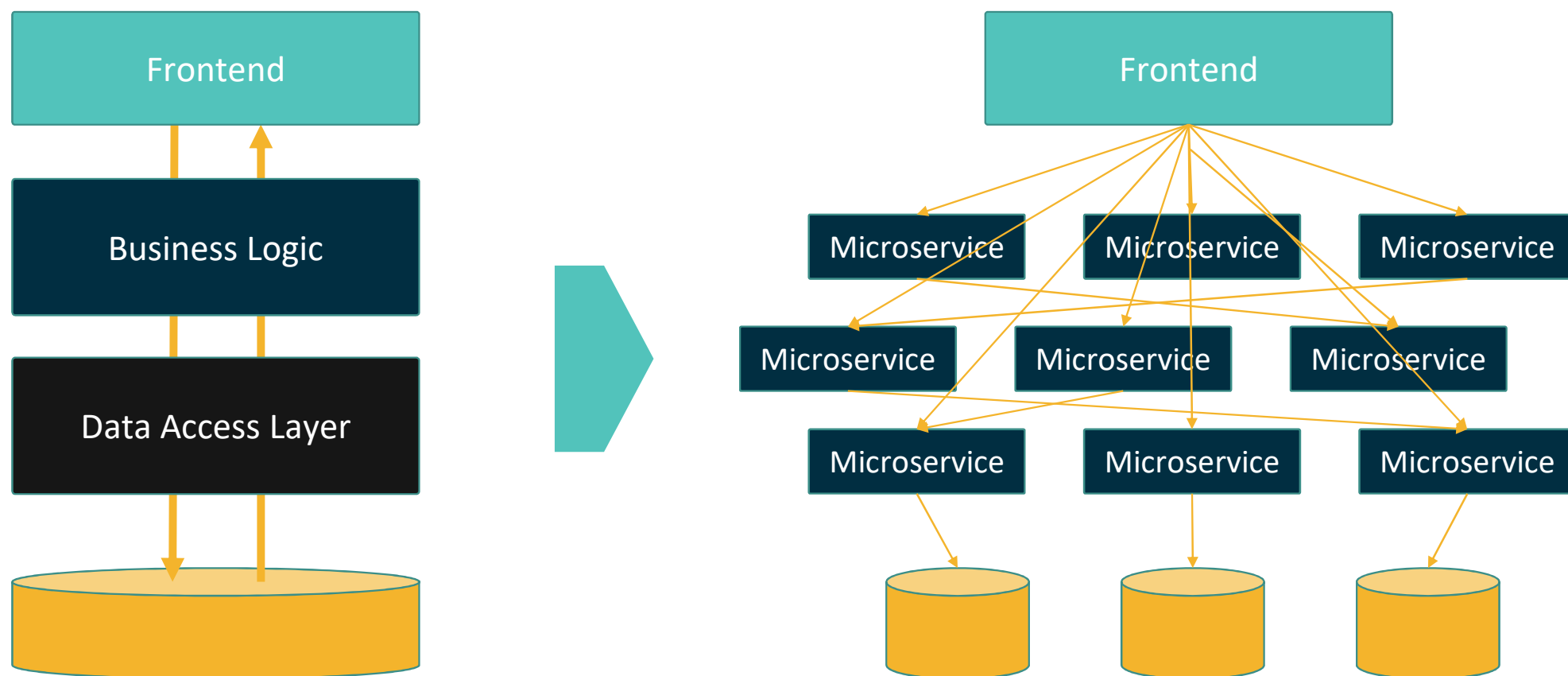
Problem: The traditional gateway-centric approach doesn't work

Solution: Native Cloud Network Segmentation

Agent-based solutions don't protect platform services



Microservices architecture creates more moving parts



Solution: Microsegmentation in IAM and Network

DevOps increases the need for speed in security

30x

More Frequent Deployments

200x

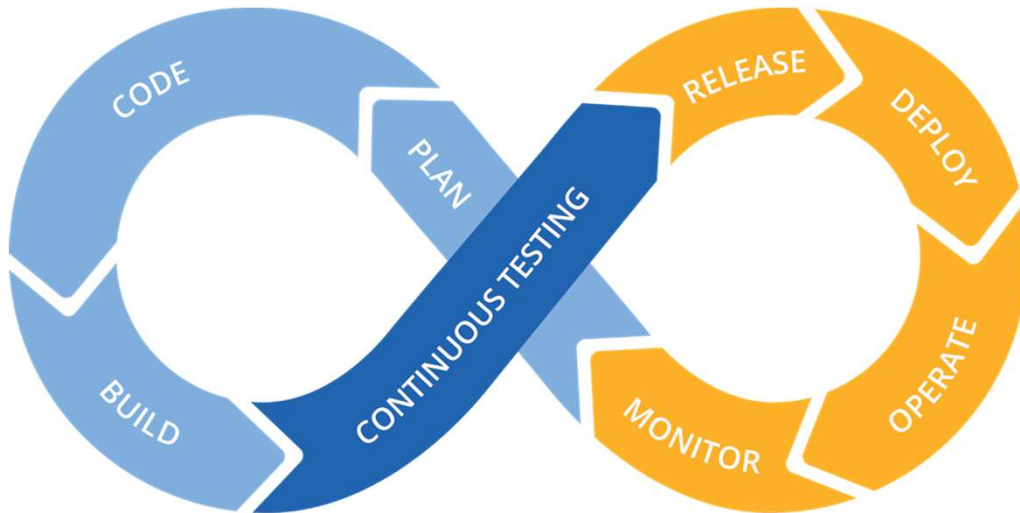
Shorter Lead Times

60x

Fewer Failures

168x

Faster Recovery



Problem: Traditional bolt-on security and manual checks are too slow

Solution: Continuous compliance and automated security assessments



Data exposures and exploits are on the rise in the cloud

Data exposures and exploits are on the rise in the cloud



The public cloud needs a new breed of security solutions

- “Born in the cloud” - built to solve challenges in the public cloud
- Cloud-native, built on the native controls offered by the cloud provider
- Automated security checks and continuous compliance
- Microsegmentation architecture for microservices
- Active protection capabilities that go beyond monitoring and alerting

Dome9 Security

SaaS Platform for Security and Compliance Automation in the Public Cloud



250+ paying customers, including 100 Global 2000



Launched 2013



Strong leadership: Check Point, CipherCloud, Sophos, Trend Micro, Nutanix, HPE & IDF




80+ employees across Mountain View HQ and TLV R&D center



Patents awarded and filed for cloud security orchestration technologies



Dome9 Clarity: Complete Network & Security Visibility



ProtectNetwork SecurityIAM SafetyDynamic AccessClarityCompliance & GovernanceUsers & Roles

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demo@dom9.com

Clarity home / AWS Prod / Oregon / Main Demo VPC / DB servers

COMPACTLANDSCAPEHIDE EMPTY SGPEERED VPCSVPC FLOW LOGSPRINTSEARCHFILTER BY TAGSMain Demo VPC (vpc-89e113ec)SECURITY GROUPS

External Zone

57.19.5.0/24

213.5.0.0/20

InternetVll Access

194.90.1.5/32

pseudo internal go...

NYC Office

Monitor External B...

DMZ

Partially Open

Effectively Internal

Internal Zone

Internal Zone

DATE: LAST 10 MINEXPORT TO CSV

Select column

SUGGESTIONS: SourceDestinationSource PortDest PortBytesProtocolPacketsAction

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

Internal Zone

DB servers
sg-bde455d8
[Open in Central](#)

Instances: (2)
DB1
DB2

RDS: (1)
mysql-rds1

Inbound Rules: (3)
TCP 465 SMTP - Secure
TCP 1433 MS-SQL for billing o
TCP 3389 Remote Desktop: (1

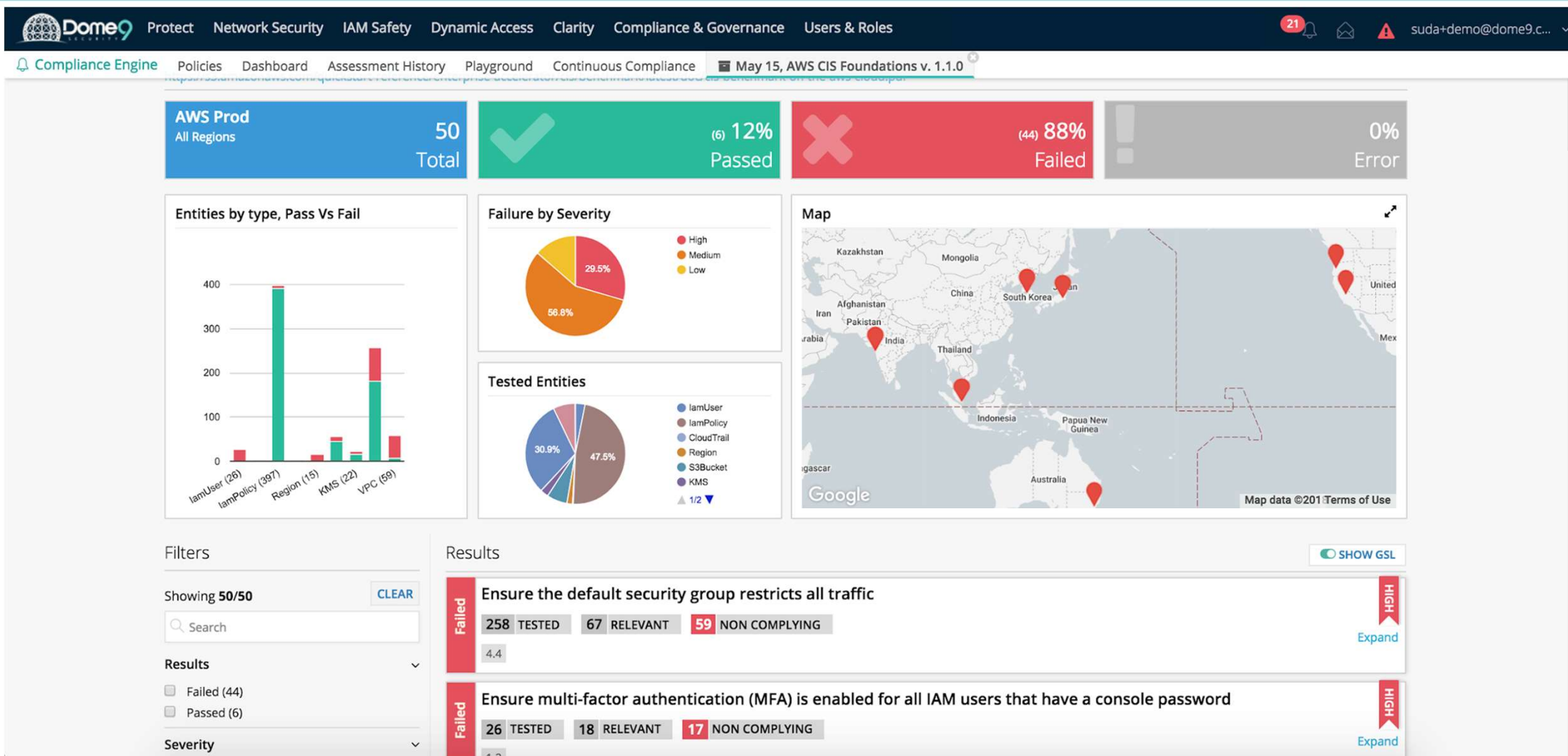
Outbound Rules: (1)
All Traffic: (1)

Sources: (3)
App1 Servers
WebServers
Common SG

Targets: (3)
Web Monitor
monitoring
Common SG

Tags: (2)
description: TEST1
ticket: 101616

Dome9 Compliance Engine: Cloud Audit Better and Much Faster



Filters

Showing 50/50 CLEAR

Results

☐ Failed (44)

☐ Passed (6)

Severity

Results SHOW GSL

Failed

Ensure the default security group restricts all traffic

258 TESTED 67 RELEVANT 59 NON COMPLYING

4.4

HIGH Expand

Failed

Ensure multi-factor authentication (MFA) is enabled for all IAM users that have a console password

26 TESTED 18 RELEVANT 17 NON COMPLYING

1.2

HIGH Expand

Protect Against Compromised Credentials And Identity Theft

The screenshot displays the Dome9 IAM Safety console. The top navigation bar includes links for Protect, Network Security, IAM Safety (selected), Dynamic Access, Clarity, Analysis, and Users & Roles. The main section is titled 'IAM Safety - Console Hardening'. It features a search bar, an 'ADD CLOUD ACCOUNT' button, and a table with columns for Account Name, Status, Active, Pending, IAM Users, and IAM Roles. The 'AWS Prod' account is listed as 'Enabled' with 9 active and 4 pending users. Below the table, there are green and red status indicators for 'Protected' and 'Not Protected' accounts. A mobile device screen shows an 'IAM Safety authentication window' for the 'AWS Prod' account. On the right, a detailed view for 'AWS Prod (086071956115)' is shown, including a 'VIEW RESTRICTED POLICY' button and an 'UNPROTECT ACCOUNT' button. Below this, a table lists 'Dome9 Users' with columns for User Name, IAM Entity, Status, and actions like 'INVITE ALL USERS', 'INVITE USER', 'UNPROTECT', 'REPROTECT', 'DISASSOCIATE', 'CANCEL INVITATION', and 'CANCEL INVITATION'.

User Name	IAM Entity	Status	Actions
adam.neale@eb2bcom.com		Not Invited	INVITE USER
amit+demo@dome9.com	amit_demo	Enabled	UNPROTECT
andrew.sciberras+dome9@eb2bcom.com		Not Invited	INVITE USER
arik.blumin+demo@dome9.com		Not Invited	INVITE USER
arik.blumin+perm@dome9.com	splunk_user	Disabled	REPROTECT, DISASSOCIATE
assaf+demo@dome9.com	Assaf_Demo	Enabled	UNPROTECT
awssummit@dome9.com	harish	Enabled (Deleted)	UNPROTECT
calvin.yeo+dome9@eb2bcom.com		Not Invited	INVITE USER
chen+demo@dome9.com		Not Invited	INVITE USER
chuck+auditor@dome9.com		Not Invited	INVITE USER
chuck+demo@dome9.com		Pending	CANCEL INVITATION
corin@dome9.com		Pending	CANCEL INVITATION

IAM Safety

Advanced IAM protection for granular control over users, roles and actions, with MFA and out-of-band authorization

Top Use Cases



Thank You



<https://dome9.com>