
AWS
re:Invent
NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

TLC303

Verizon Connect transformation through their journey to the cloud

Craig Allen (He/him)

Chief Architect
Verizon Connect

Fernando Gamero (He/him)

Sr. Solutions Architect
AWS

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Agenda

Verizon Connect past, present, and future

History and challenges

Migrating into the cloud

Modernization journey

How it has transformed Verizon Connect

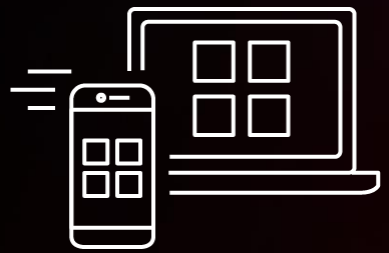
Q&A

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Verizon Connect past, present, and future



Migration into AWS



Platform optimization



Platform modernization

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

What we do.



verizon connect

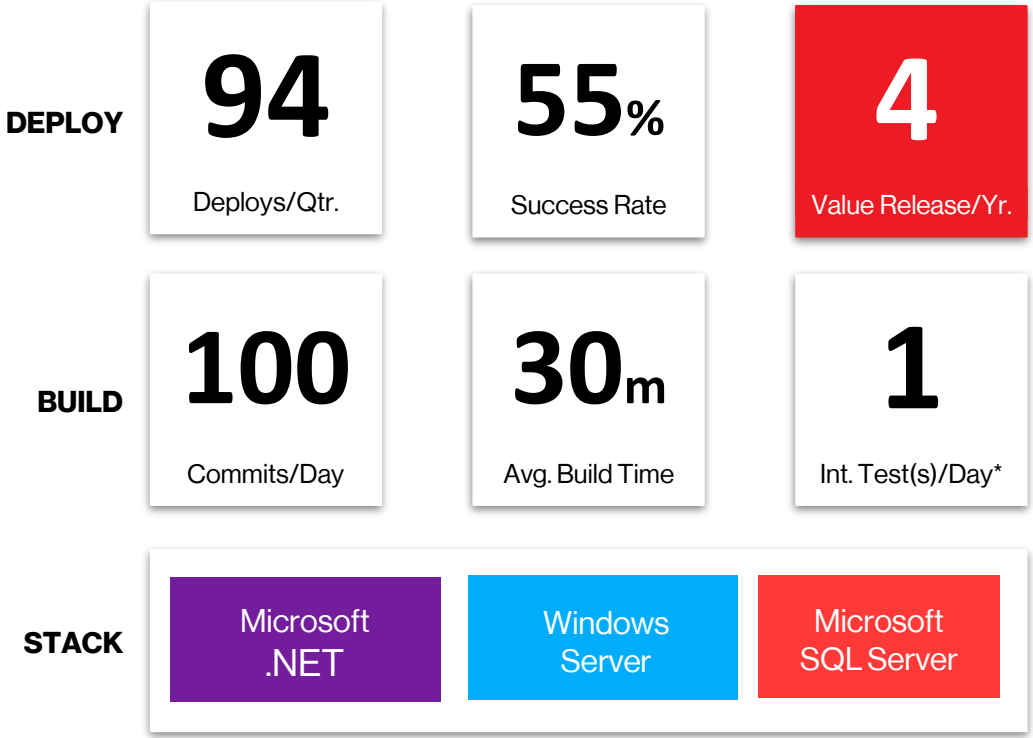
Reveal


verizon connect Reveal
Video List
Looking for a video not on the list? Get Video
All
Starred
1992 Nissan Pick...
Distraction
Hard Braking
DOWNLOAD VIDEOS
VIEW ON REPLAY
Analysis
Search
Atlanta
East Point
120
Fleet
45
moving
15
idling
60
stopped
Volkswagen_Amarok_01
Ida Yoder
Midtown Atlanta, GA 30309, USA
JCB Excavator
Jack Smith
70 mph
28 mph
FIT TO MAP

History


Fleetmatics
SageQuest
Connect 2 Field
routist
ORNICAR
visirun
more control
inosat
TRACKEASY
FAHRZEUGORTUNG
movildata
verizon
HUGHES
TELEMATICS, INC.
networkfleet
Fleetmatics
Telogis
verizon connect

State of the Nation (2015 Edition)



State of the Nation (2015 Edition)

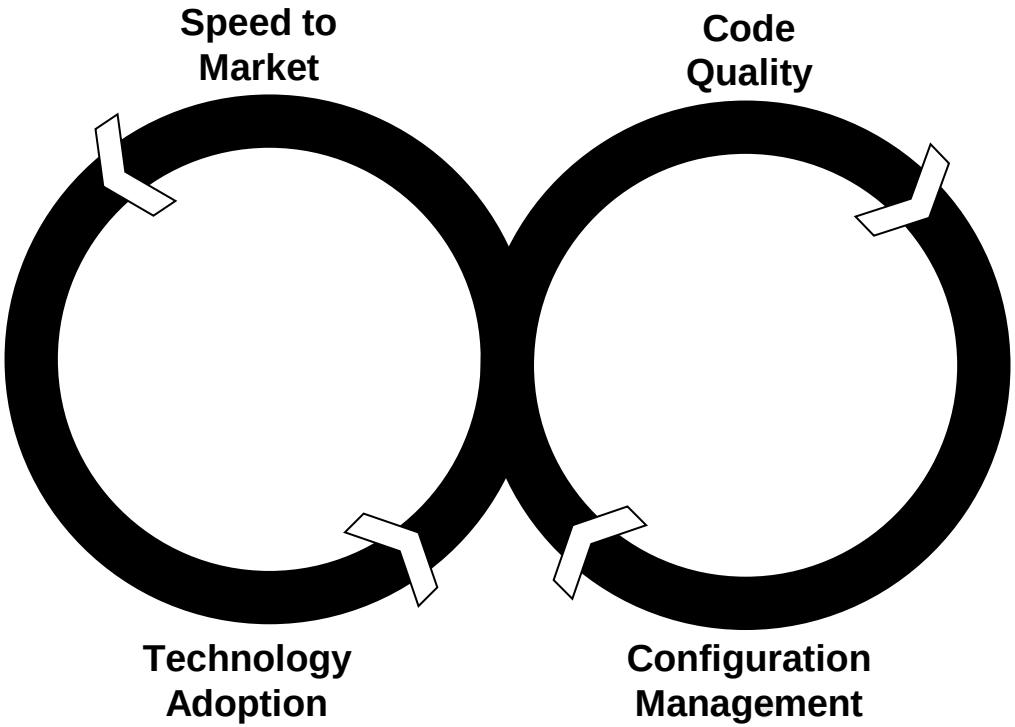


9
Data Centers

3
Office Labs

verizon connect

Challenges (2015 Edition)



Migrating into the cloud

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

2015

The Catalyst

Goal

- Monolith to Microservices
- Caching & Eventing



Challenges

- Hardware Commitments
- Upskilling & Visibility
- Config Consistency

Outcome

Stop building our own infrastructure!

verizon connect

The Experiment

Goal

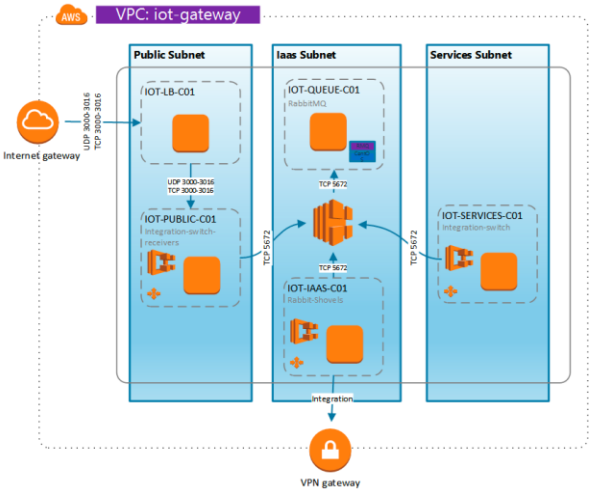
- New device ingress
- Cloud agnostic

Challenges

- Missing services
- Expensive
- Zero benefits vs. DC
- Upskilling

Outcome

New device gateway



2016 2017

The Standards

Goal

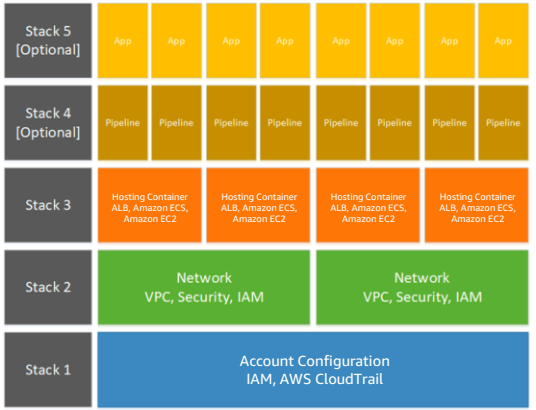
- Patterns & Practices
- Managed Services
- Piecemeal Migration

Challenges

- Broadcasts Removal
- Automated Pipelines
- Elasticity
- Culture & Ownership

Outcome

New CI/CD Pipeline



verizon connect

2019

The First Product – Video

Goal

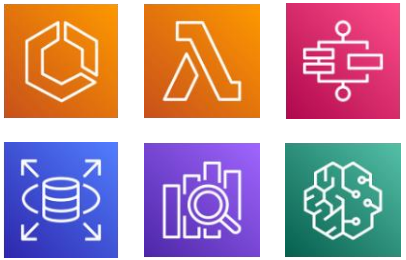
- Cloud-Native Product
- Introduce AI
- Cost Efficient

Challenges

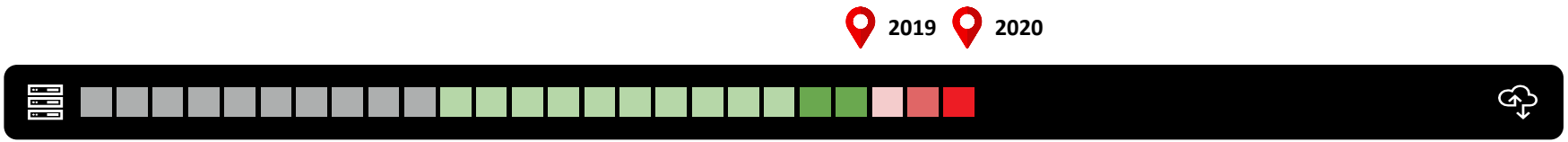
- Reveal Integration
- Service Governance
- Service Limits
- Training & Monitoring

Outcome

Fastest-Growing Product



verizon connect



The Turning Point!

Goal	Challenges	Outcome
Piecemeal Migration	AWS Direct Connect Latency	Lift & Rehost!
Over 1K Microservices	Hybrid Complexity	

ROADBLOCK!

verizon connect



All in!

Goal	Challenges	Outcome
Migrate **everything**!	Coordinating ~600 staff	**Q1 – EU Platform**
	Asset inventory	**Q4 – US Platform**
	Customer interruption	
	Data synchronization	

verizon connect

What it took . . .

>50K
Automated tests executed

>10K
Application deployments

370TB
Data transferred

3.8K
Amazon EC2 instances created

760
Databases migrated

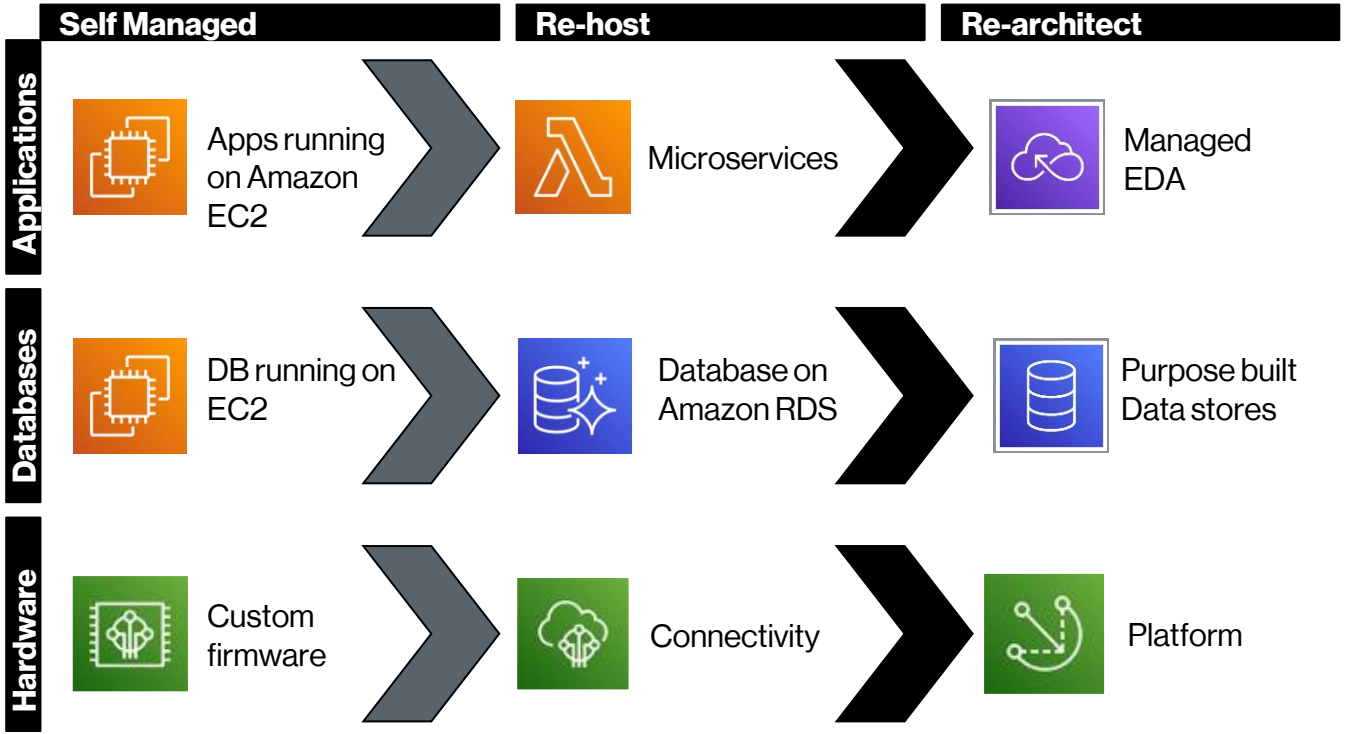
470
Physical servers removed

verizon connect

Modernization journey

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

What's the approach?



Journey so far . . .



1.7PB
Provisioned Amazon EBS storage

16TB
Data migrated to Amazon RDS

58TB
Data migrated to Amazon Redshift

>5K
EC2 instances running

100+
Amazon ECS clusters

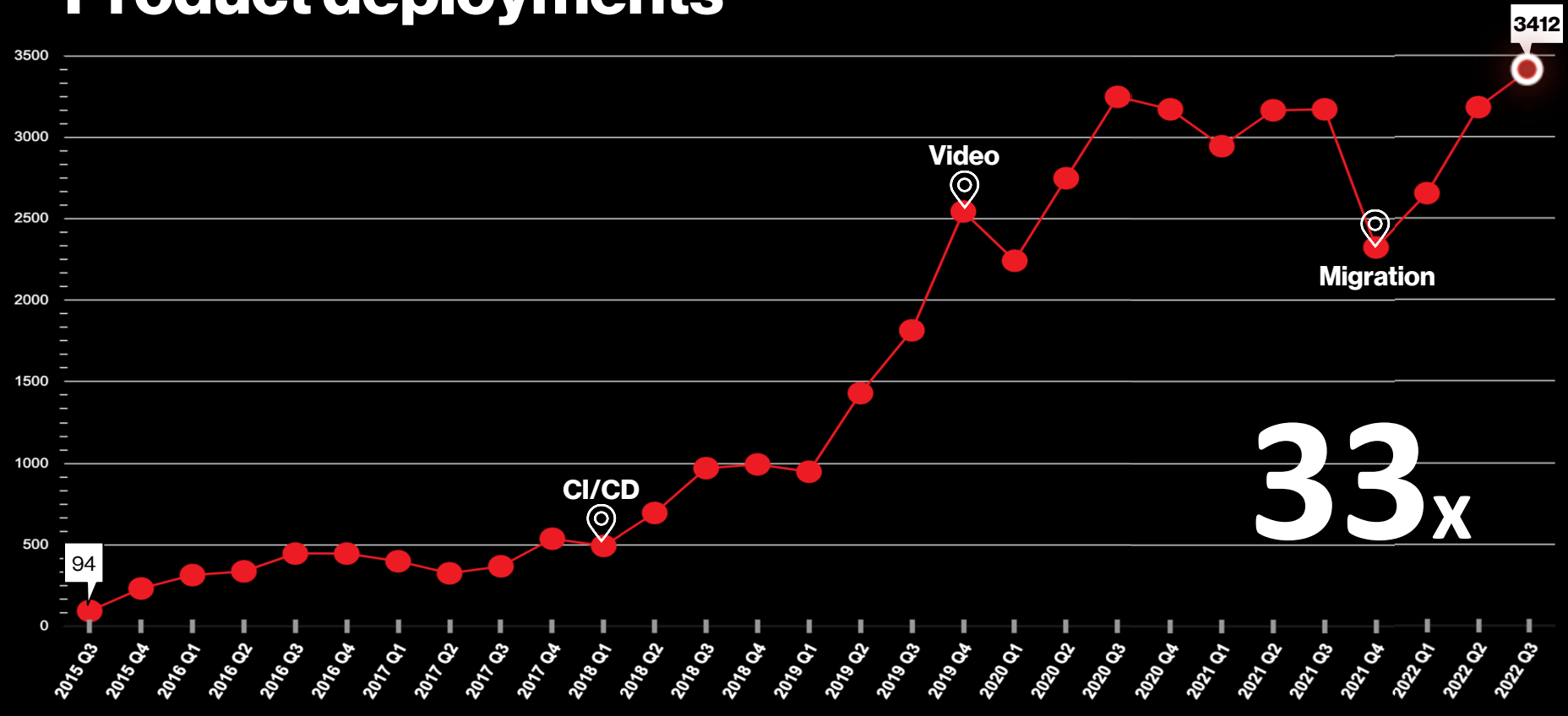
>10k
Lambda functions

verizon connect

How it has transformed Verizon Connect

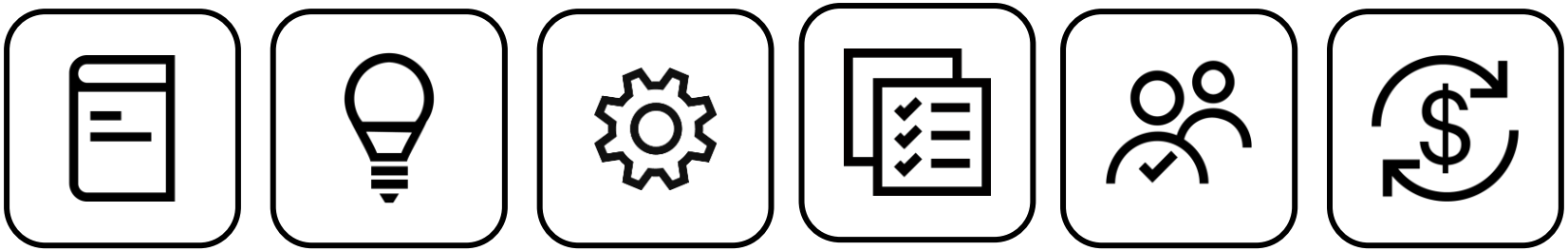
© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Product deployments



verizon connect

Workforce Benefits



Customer Benefits

Reveal Video



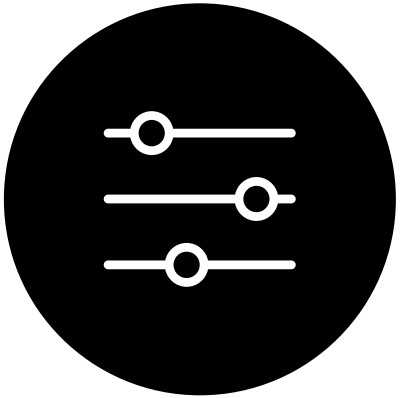
Reveal Field



Setup for Success







Thank you!



Please complete the session survey in the **mobile app**

aws

© 2022, Amazon Web Services, Inc. or its affiliates. All rights reserved.