

Visibility Is Everything

Take control of (and secure) your Cloud computing in 2019



Dave Allen
Vice President
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DATACENTER PACKED. HEADING TO THE CLOUD?



IT'S DIFFERENT FOR EVERY CUSTOMER



SaaS



PaaS



IaaS



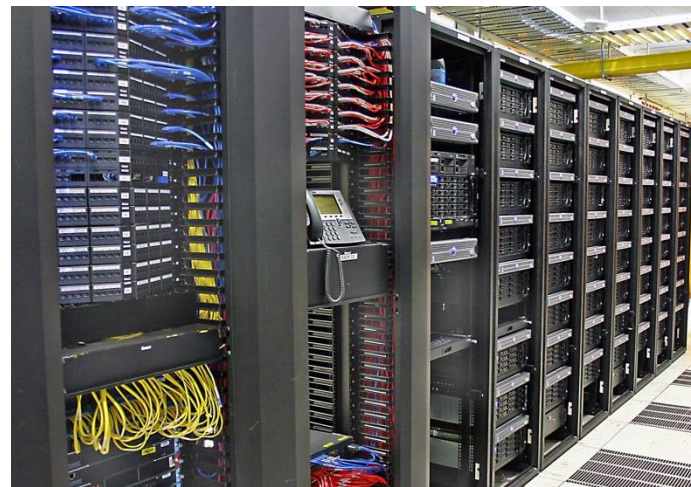
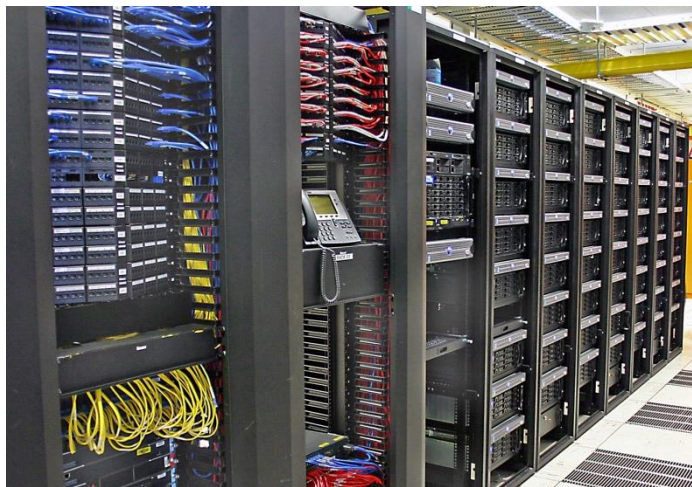
Private

Gartner®

”[Enterprise customers are] skipping the years of early getting-their-feet-wet, and immediately jumping in with more significant projects, with more ambitious goals...”

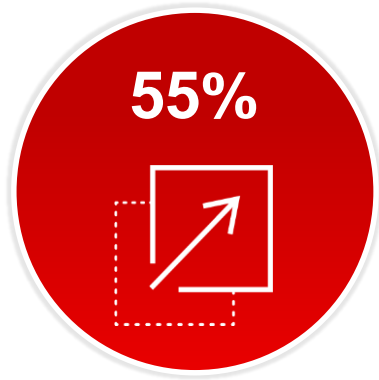
By 2020, a corporate "No-Cloud" policy will be as rare as a "No-Internet" policy is today.

Attackers Are Location Agnostic



Which data center is in the cloud?

THREAT LANDSCAPE CONTINUES TO EVOLVE



Volume of Attacks

Increase in
new malware



Severity of Attacks

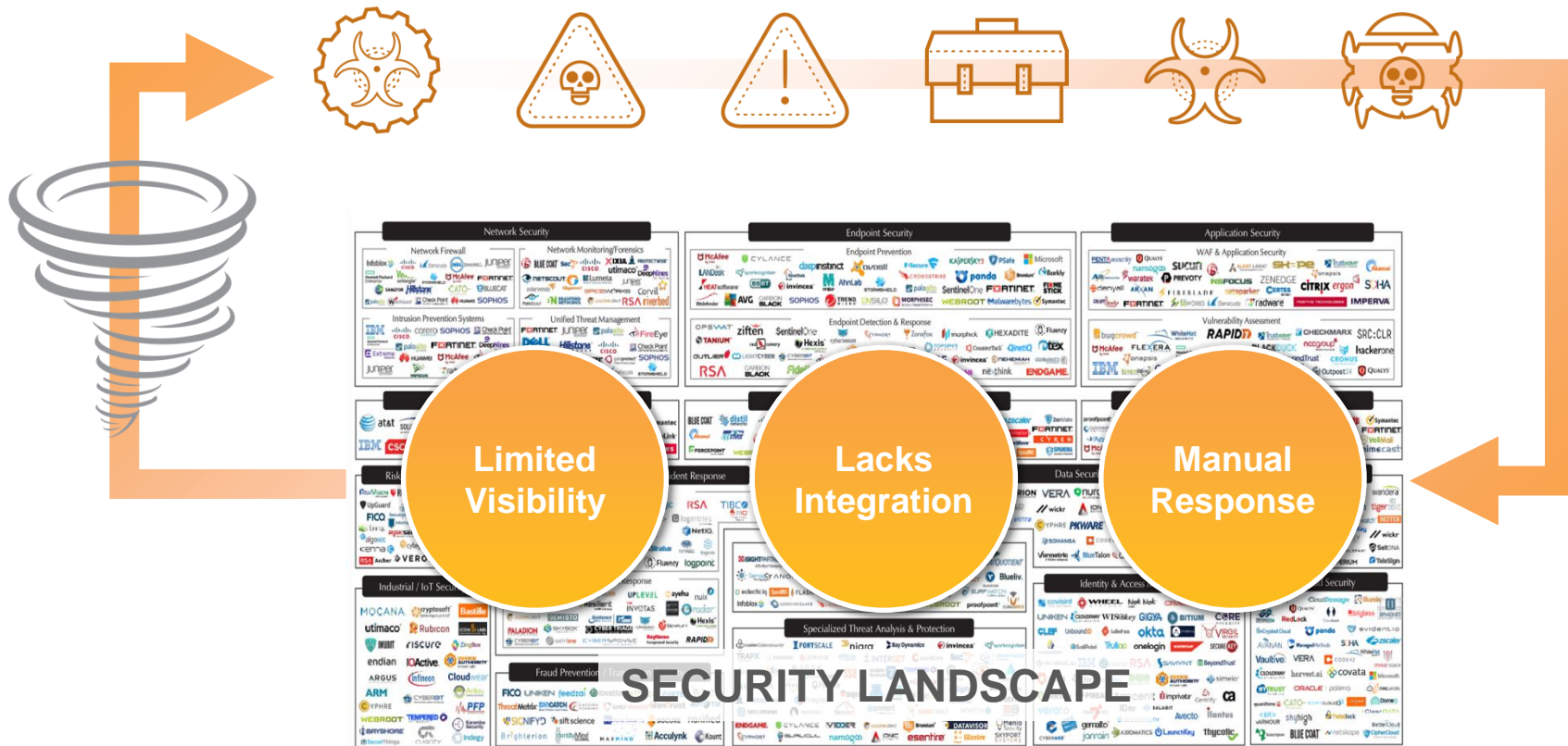
35% increase in
fileless attacks



More Sophisticated

Targeted and
multi-vector

Typical Landscape



Limited
Visibility

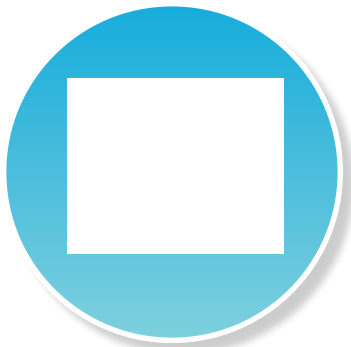
Lacks
Integration

Manual
Response

SECURITY LANDSCAPE



How did we get here?



Together we face a highly automated adversary with asymmetric advantage.



“Best of Breed” is a natural outcome of choices organizations have made.



OPEX/CAPEX intensive and not economically sustainable for most organizations.



Moore's Law confronts People & Process.

THE CHALLENGE FOR LEADERS



79%

WERE FEARFUL OF FALLING
OUT OF ALIGNMENT

67%

WANT TO DRIVE
TRANSFORMATION FASTER

70%

FELT TRANSFORMATION WAS
HAPPENING TOO FAST



INCREASING INVESTMENT IN TOOLS AND PEOPLE

IF YOU WANT TO GO FASTER... BACK TO... FIRST PRINCIPLES...



The Operating Platform

EVOLUTION I

CLOUD-DELIVERED SECURITY SERVICES
Threat Prevention URL Filtering Malware Analysis

THREAT INTEL DATA

NETWORK

EVOLUTION II

CLOUD-DELIVERED SECURITY SERVICES
Threat Prevention URL Filtering Malware Analysis

THREAT INTEL DATA

NETWORK

ENDPOINT

CLOUD

EVOLUTION III

PALO ALTO NETWORKS APPS



3rd PARTY APPS



CUSTOMER APPS



APPLICATION FRAMEWORK

LOGGING SERVICE

THREAT INTEL DATA

NETWORK

ENDPOINT

CLOUD



COMMON POLICY CONTROL, GOVERNANCE/REPORTING

SMART SECURITY ALGORITHMS

NORMALIZED SECURITY ARTIFACTS/INTELLIGENCE

SENSORS/ENFORCEMENT POINTS

Public Cloud Security: A Shared Responsibility

Customer content

Data | Intellectual Property | Source Code

Platform, Applications, Access Control

Operating System, Networking, Security

Global Infrastructure

Compute | Storage | Database | Networking

Security: **YOUR** responsibility

Security: **THEIR** responsibility

OVER FIVE YEARS OF CONTINUED INVESTMENTS

Cloud Infrastructure Support



NEW



Google Cloud Platform

2013

2014

2015

2016

2017

2018



AWS Auto-Scaling



openstack.
Config Drive



AWS Lambda



AWS ELB



Azure ARM



Azure Load
Balancer



AWS CloudFormation



Azure App
Gateway



ANSIBLE



Advanced
Automation



Google Cloud
Deployment
Manager



TERRAFORM



Azure Security
Center



Google
Stackdriver



Azure App
Insights



openstack.
Heat
Templates

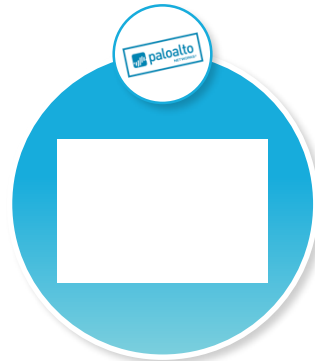
Orchestration and Automation Integration



DEVOPS REVOLUTION - CHANGING THE WHERE AND THE HOW!



Continuous discovery
and monitoring



Comprehensive storage
security



Complete and continuous
compliance reporting

58%

UNSECURED VPC

55%

POOR PASSWORD
POLICY

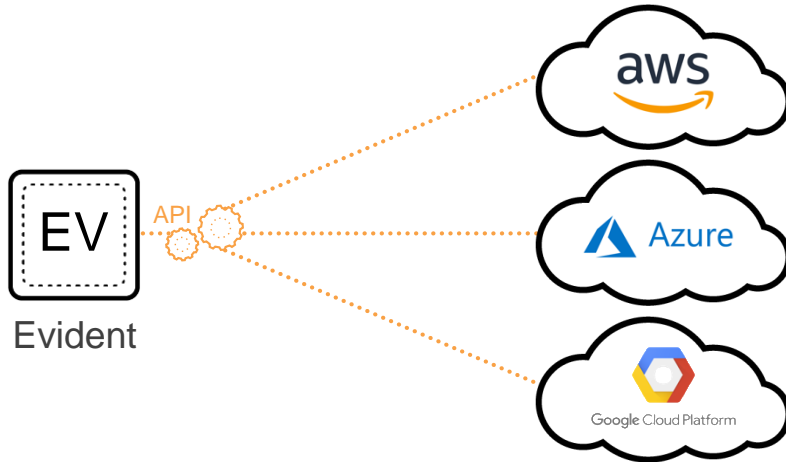
48%

MFA NOT ENABLED

29%

UNPROTECTED
ROOT

CONTINUOUS MONITORING AND COMPLIANCE EVIDENT



Is MFA Enabled?

Is any sensitive data exposed?

What services are running?

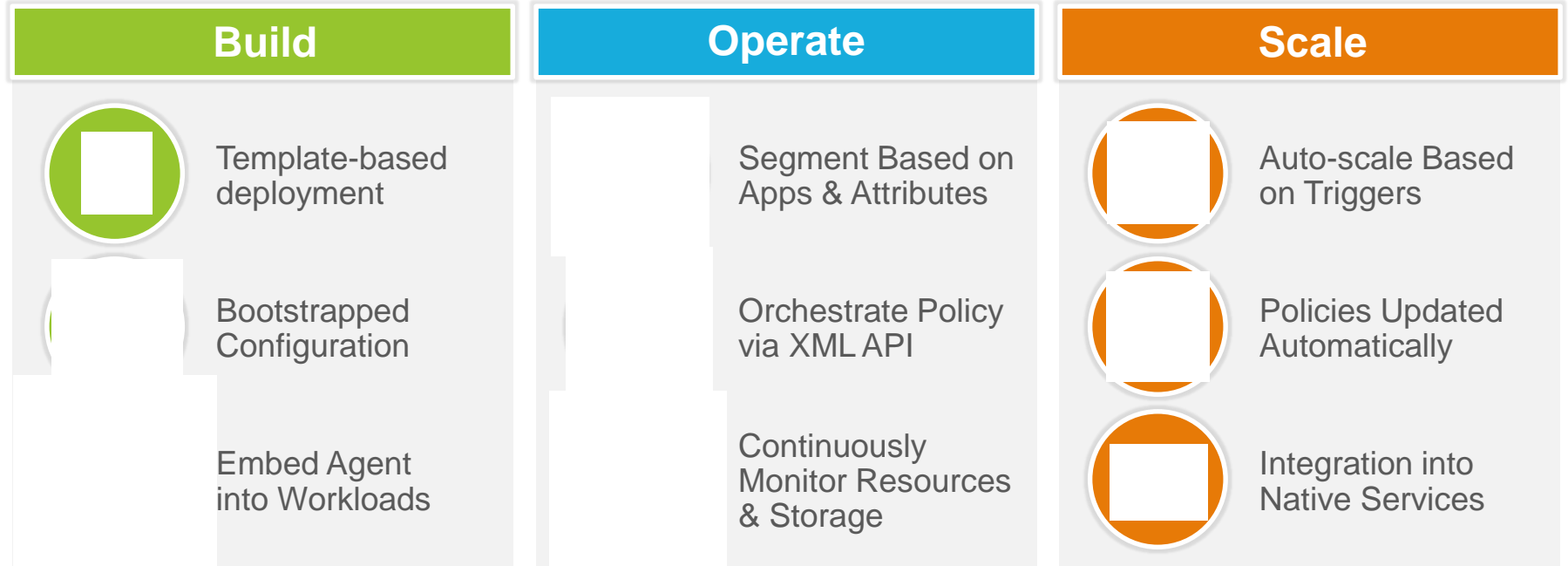
Who has access to this resource?

Discover and Monitor
Resources

Compliance
Reporting

Secure Storage
Services

FRICITIONLESS SECURE CLOUD OPERATIONS



Automation Tools



TERRAFORM



ANSIBLE



AWS CloudFormation



AWS Lambda



Azure ARM



Azure Security Center



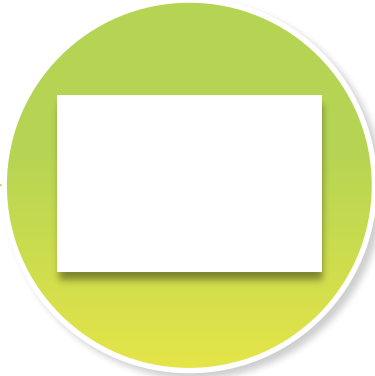
GCP Cloud Manager



CONSISTENT & FRICTIONLESS PREVENTION EVERYWHERE

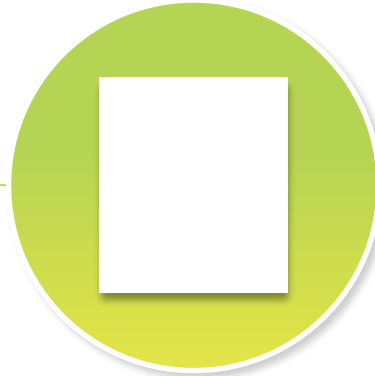


PALO ALTO NETWORKS SECURITY OPERATING PLATFORM



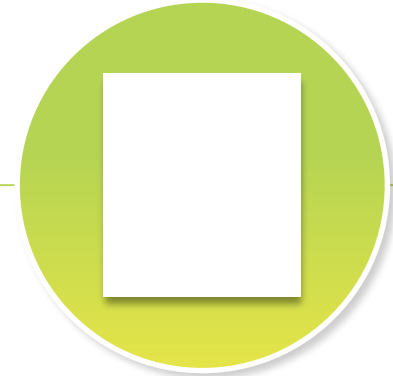
PREVENT SUCCESSFUL CYBERATTACKS

Operate with ease using
best practices



FOCUS ON WHAT MATTERS

Automate tasks using
context and analytics



CONSUME INNOVATIONS QUICKLY

Palo Alto Networks, 3rd party,
and customer delivered

BUILT FOR AUTOMATION

Thankyou

