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2018 11

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AWS

Amazon S3

Amazon API Gateway

AWS WAF

Amazon RDS for Oracle

Oracle 12.2

AWS Secrets Manager

CloudFormation

AWS ECS

AWS Fargate

AWS Deep

Learning AMI

Chainer 5.0

Amazon Inspector

EC2

VMware

Kubernetes

Heptio Google

CEO

-

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OpenStack

OpenStack Summit

2018 OpenStack

Ceph

EasyStack

EasyStack

2018 OpenStack

StarlingX

TSC

50

2.0

C-V2X

GITC 2018

“ 2018

”

Envoy

Aqua Security AWS

Azure Kubernetes AKS

Microsoft Azure

Azure

Kubernetes

AWS

Serverless

microVM Firecracker

25

2018 Q3 Android

320

40%

CPU

4

6

BlackBerry 14

Cylance

ForeScout Technologies 1.13

SecurityMatters 2

Netskope 1.68 F

Shape Security APT XM

Cyber 2600 E 2200 A

2018 11 30

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# 1. AWS

## 1.1 Amazon S3

11 2 Amazon S3

S3

S3

S3

Amazon S3

99.999999999%

Amazon S3

S3

## 1.2 Amazon Inspector EC2

11 5 Amazon Inspector

Amazon EC2

Amazon

(AMI) ID

Auto Scaling

IP

DNS

ID

“

”

AWS API

CLI

Amazon Inspector

Amazon Inspector

EC2

## 1.3

### AWS Deep Learning AMI

### Chainer 5.0

11 5

Ubuntu

Amazon Linux

AWS Deep Learning AMI

Python 3.6

iDeep 2.0

Chainer 5.0

Deep Learning AMI

Chainer 5.0 Amazon EC2 CPU GPU

AWS Deep Learning AMI TensorFlow PyTorch Apache MXNet

Amazon EC2

### 1.4 Amazon API Gateway AWS WAF

11 5 Amazon API Gateway API AWS WAF  
API Web  
AWS WAF Web  
Web Web API  
AWS WAF Amazon API Gateway API SQL  
(XSS) IP /  
Web HTTP  
AWS Marketplace API  
OWASP 10 (CVE)

### 1.5 Amazon RDS for Oracle

11 6 Amazon MAX\_STRING\_SIZE  
“ EXTENDED” Amazon RDS for Oracle  
VARCHAR2 NVARCHAR2 RAW 32767  
Oracle 12c

### 1.6 Amazon Inspector

11 8 Amazon Inspector “ ”  
VPC Amazon EC2  
Inspector AWS Internet  
VPN Direct Connect VPC  
Amazon Inspector AWS  
EC2

AWS

AWS

Amazon Virtual Private Cloud (VPC)

(ACL)

AWS

EC2

Inspector

Inspector

(CVE)

Amazon EC2

EC2

### 1.7 AWS Secrets Manager CloudFormation

11 12

AWS CloudFormation

AWS Secrets Manager

AWS

AWS

AWS Secrets Manager

IT

AWS Secrets Manager

AWS CloudFormation

Fargate





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7.1

[REDACTED]

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IT

2017 3% 2018 8%

OpenStack

Banco Multiva,

eBay Classifieds Group Progressive , SBAB

/ 2017 4% 2018 6 / 2017

3% 2018 4 OpenStack

z Kubernetes OpenStack

2018 61% Kubernetes OpenStack

PaaS BBVA CERN

Kubernetes 2016 OpenStack

OpenStack Kubernetes

Kubernetes 70%

z Kubernetes OpenStack  
2018 OpenStack OpenStack Ironic  
24% Ironic 2016 9% Ironic  
OpenStack OpenStack OpenStack  
Kubernetes Ironic 37% OpenStack Kubernetes  
CNCF Magnum 16  
z OpenStack OpenStack  
OpenStack OpenStack  
78% OpenStack 44%  
AWS 28% Azure 24% Google  
OpenStack 58  
z OpenStack TOP3  
2018 OpenStack OpenStack  
OpenStack “ OpenStack “  
“ OpenStack “  
“ OpenStack ”

OpenStack “ EasyStack  
 OpenStack  
 2017 2018 ”  
 OpenStack  
 OpenStack OpenStack  
 EasyStack  
 10 IBM 340  
 Github VMware Kubernetes Heptio  
 Dell EMC HPE 33% 29% 27%  
 IT OpenStack TOP3

## 2. Easystack

### 2.1 Ceph

### EasyStack

11 12 Linux

“ Ceph Day”

Ceph



## 2.2 EasyStack 2018 OpenStack

11 13 OpenStack Summit OpenStack 2018

OpenStack OpenStack 22%

EasyStack OpenStack EasyStack

OpenStack

OpenStack 11 OpenStack 2017

8 2018 8 1483 63 858

441 OpenStack

2018

OpenStack

75% OpenStack TOP3

1.

1.1

“ ”

“ ” I<sup>3</sup>

1.2 IoT-VBox

50

“ + ”

IoT-VBox

“

+

IoT-VBox

“

+

Discover

Protect

Visibility

Control

Payload

1.3

**2.0**

2.0

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2.0

1.4 CERNET 2018

CERNET

HERNET

CERNET

CERNET

2018

“ .

2.0”

‘ + ’

2.0

2.

2.1

C-V2X

LTE-V2X“ ”

C-V2X

Server

V2X

### 3.

3.1

#### **GITC 2018**

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2018 GITC

11

“ 2018

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1.

## Envoy

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CNCF

Envoy

Kubernetes

Prometheus

Envoy

Envoy

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HTTP/2 gRPC MongoDB Redis Thrift

API

250

Envoy

InfoWorld

2018

Airbnb

Booking.com eBay F5 IBM Lyft Medium

Netflix Pinterest Salesforce

Square Stripe Twilio Verizon VSCO

3000

## 2. Aqua Security AWS

Aqua Security AWS Marketplace for Containers

AWS Marketplace

Aqua

Amazon

AWS Aqua  
AWS Marketplace for Containers AWS Amazon Elastic Container Service  
Amazon ECS AWS Marketplace for Containers  
- Aqua Container Security Platform

### 3. Azure Kubernetes

2018 11 13 Linux KubeCon +  
CloudNativeCon 2018 Kubernetes  
Brenda Burns Kubernetes Azure  
Kubernetes Service AKS Microsoft Azure  
2016 4 Microsoft Azure Azure Container Service  
2017 2 Kubernetes 11 Azure Kubernetes  
Service AKS Kubernetes  
**Kubernetes** Azure Azure CLI  
Azure Terraform  
Kubernetes Azure  
Azure AKS Azure  
Virtual Kubelet  
Azure Container Instance AKS  
**Kubernetes** Azure Active Directory  
Kubernetes Azure Active Directory Kubernetes  
Kubernetes Key Vault Kubernetes  
Azure (CNI)



z

Firecracker

z

z

Firecracker

## 1. 25

MeriTalk 2018 11 20 11 19

25

2017

PESCO

17

17

PESCO

## 2.

3900 PHA

**3.**

SCALANCE

SCALANCE

S602 S612

S623 S627-2M V4.0.1.1

SCALANCE

Applied Risk

Web

Web

“

Web

” Applied Risk

Nelson Berg

“

”

**4.**

Check Point

**5. 2018 Q3 Android**

**320**

**40%**

G DATA

2018

3

**6.**

**CPU**

CPU

CPU

CPU

PortSmash CVE-2018-5407

Meltdown Spectre

**7.**

**Java Script**

ZDNet

Google

JavaScript

Google

Google

JavaScript

JS

Google Play

Google Play Protect

Google

Google

Google Pay

Gmail

Google

**1.**

**1.1 Threat Stack**

**Bluefyre**

11 8

Threat Stack

Bluefyre

Threat Stack

Bluefyre

Cloud Native

**1.2 ForeScout Technologies**

**SecurityMatters**

11 8

ForeScout Technologies

SecurityMatters

1.13

ForeScout Technologies

2000 4

San Jose

SecurityMatters

**1.3 SolarWinds**

**8MAN**

11 15

SolarWinds

8MAN

SolarWinds

SolarWinds

8MAN

**1.4 BlackBerry**

**Cylance**

11 16

BlackBerry

Cylance

14

Cylance

**2.**

**2.1 Shape Security**

**2600**

**E**

11 1

Shape Security

Baseline Ventures

8

2200

E

Shape Security

**2.2 Netskope**

**1.68**

**F**

11 13

Netskope

Accel

6

1.68

F

Netskope

Cloud Access Security Broker, CASB

Netskope

1.

APP/SaaS

APP/SaaS

2.

SaaS

SaaS

3.

4.

5.

**2.3 Automox 930 A**

11 13 Automox Blue Note Ventures 3 930 A

Automox Windows Linux Mac  
90

Automox

**2.4 Duality 400**

11 13 Duality Team8 400 Duality

Duality

**2.5 XM Cyber 2200 A**

11 13 XM Cyber Macquarie Capital 4 2200 A

XM Cyber APT

**2.6 Alcide 700 A**

11 19 Alcide CE Ventures (CEIIF) 2 700 A

Alcide

Alcide DevOps

Alcide