

+

2018

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2018

11

			<i>ii</i>
			1
	+		3
			3
1.	AWS		3
2.	VMWare		6
3.	GOOGLE		7
4.	Azure		8
5.			8
6.			8
7.			10
			10
1.	Openstack		10
2.	Easystack		13

3.	99CLOUD		15
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2.			19
3.			21
4.			21
5.			21
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1.	Envoy “ ”		22
2.	Aqua Security AWS		22
3.	Azure Kubernetes		23
4.	AWS Firecracker		24
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1.	25		25
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3.			26
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5.	2018 Q3 Android 320 40%		26
6.	CPU		27
7.	Java Script		27
			27
1.			27

2.		28
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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

-

,

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
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Shape Security

APT

XM

Cyber	2600	E	2200	A
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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

5G

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6.2

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11 19

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7.

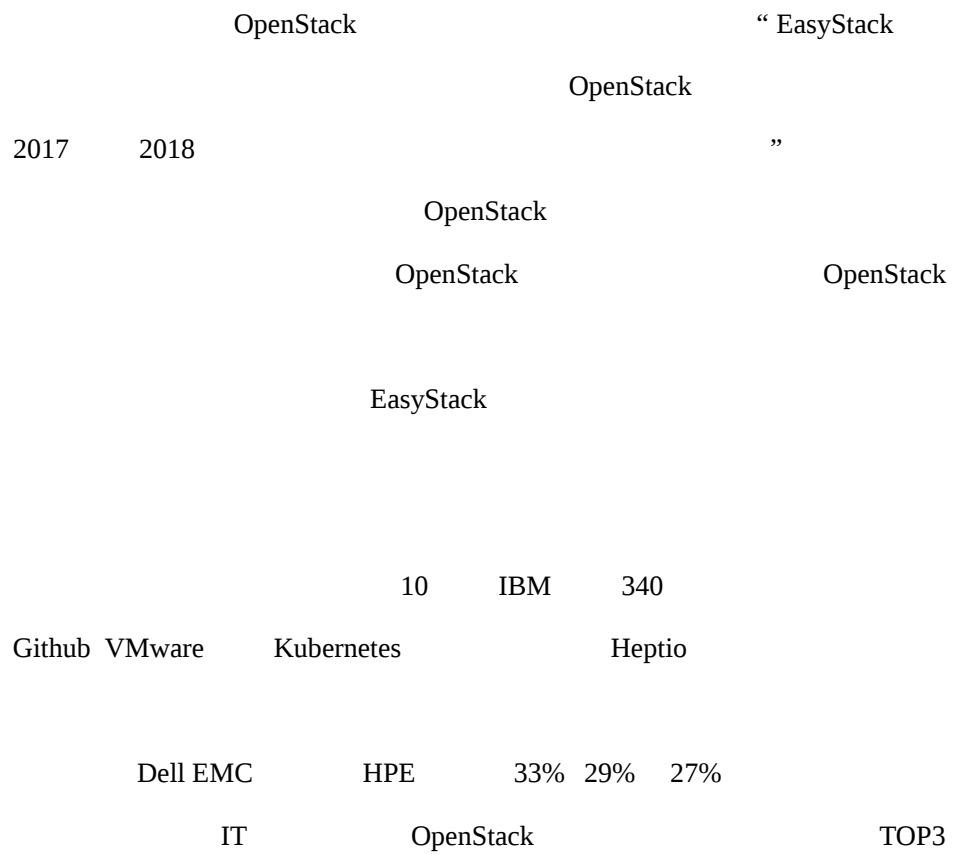
7.1

[REDACTED]

[REDACTED]

IT					OpenStack	
	2017	3%	2018	8%		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%			

12



2. Easystack

2.1 Ceph

EasyStack

11 12 Linux

“ Ceph Day ”

Ceph

Ceph EasyStack 30
Ceph

Ceph Ceph

Ceph

Ceph

EasyStack

Ceph

Ceph

Ceph

Ceph

Ceph EasyStack

Linux

Jim Zemlin

"Ceph

Linux

Ceph

Ceph

"

Ceph

Sage Weil

"Ceph

"

EasyStack

CTO

“

EasyStack

Ceph

EasyStack

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

“

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I³

1.2 **IoT-VBox**

50

“ + ”

IoT-VBox

“

+ ”

IoT-VBox

“ + ”

Discover

Protect

Visibility

Control

Payload

1.3

2.0

2.0

“

”

“

”

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

“ ” 2018 GITC 11

“ 2018

”

1. Envoy “ ”

CNCF

Envoy

Kubernetes

Prometheus

Envoy

Envoy

;

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)

	+	2018	11	
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