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2018

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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

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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

+

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

6.2

11 19

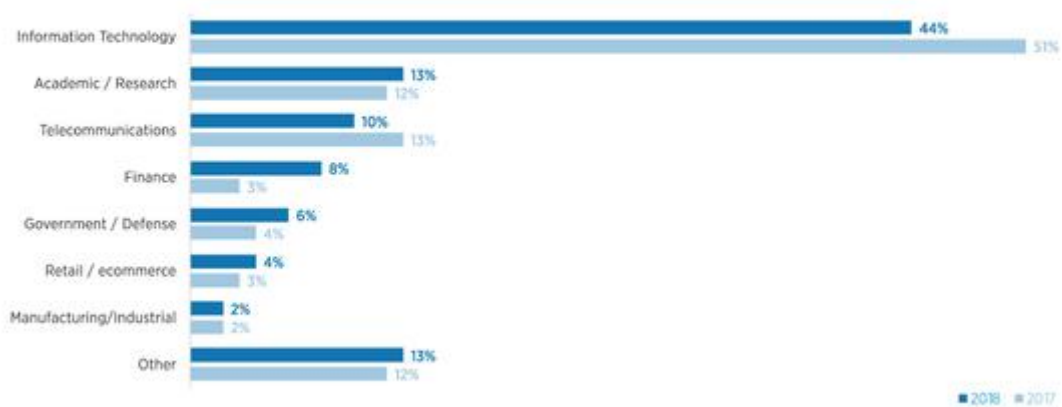


7.

7.1 **OpenStack**

11

Which industries use OpenStack?



2017's sample size of 499, and 2018's sample size of 685.

IT OpenStack

2017 3% 2018 8% Banco Multiva,

eBay Classifieds Group Progressive , SBAB

/ 2017 4% 2018 6 / 2017

3% 2018 4 OpenStack

Kubernetes OpenStack

2018 61% Kubernetes OpenStack

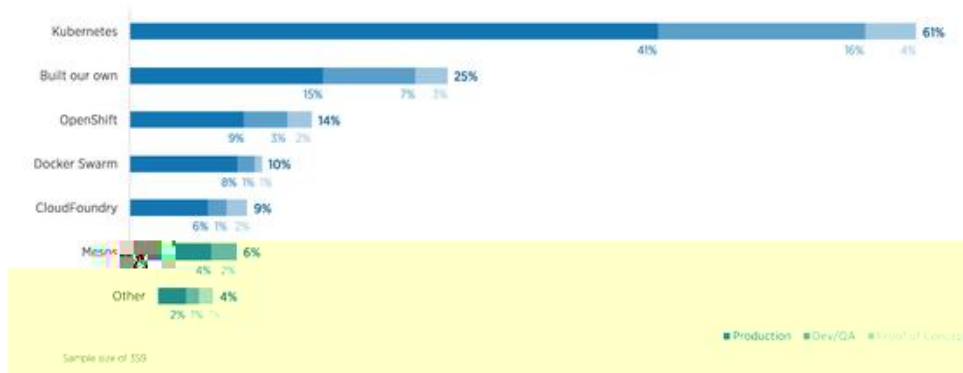
PaaS BBVA CERN

Kubernetes 2016 OpenStack

OpenStack Kubernetes

Kubernetes 70%

What PaaS and containers orchestration tools are used to manage applications on OpenStack deployments?

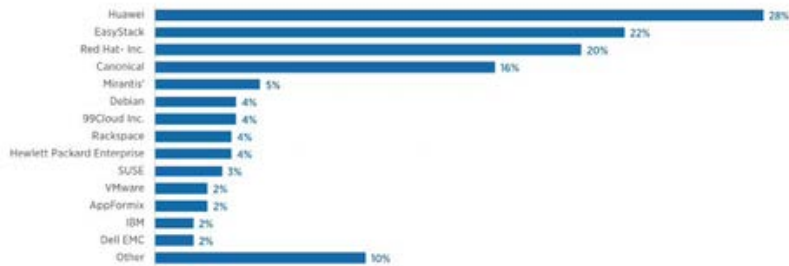


Kubernetes OpenStack
 2018 OpenStack OpenStack IroniC
 24% IroniC 2016 9% IroniC
 OpenStack OpenStack OpenStack
 Kubernetes IroniC 37% OpenStack Kubernetes
 CNCF Magnum 16
 OpenStack OpenStack
 OpenStack OpenStack
 78% OpenStack 44%
 AWS 28% Azure 24% Google
 OpenStack 58
 OpenStack TOP3
 2018 OpenStack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

EasyStack Joins Huawei and Red Hat Among Top Ranking OpenStack Software Vendors

When looking at the responses from participants who indicated they are working with a software vendor, EasyStack joins the Top 3 OpenStack vendors in 2018, placing second behind Huawei, who retains its No. 1 spot from 2017. Red Hat ranks third among software vendors named by survey respondents.

Which vendor's OpenStack-related software products power users' clouds?



Sample size of 454

排名	OpenStack软件供应商	参与调查用户占比
1	HUAWEI	28%
2	IBM	23%
3	Red Hat	17%
4	VMware	12%
5	Oracle	10%
6	Alibaba	8%
7	Microsoft	7%
8	Canonical	6%
9	NetScout Systems	5%
10	OpenStack Foundation	4%

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

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

“ ”



“ ” I³

1.2 IoT-VBox

50

“ + ”

IoT-VBox

“

+”

IoT-VBox

“

+”

Discover

Protect

Visibility

Control





Payload

1.3

2.0

2.0

“

”

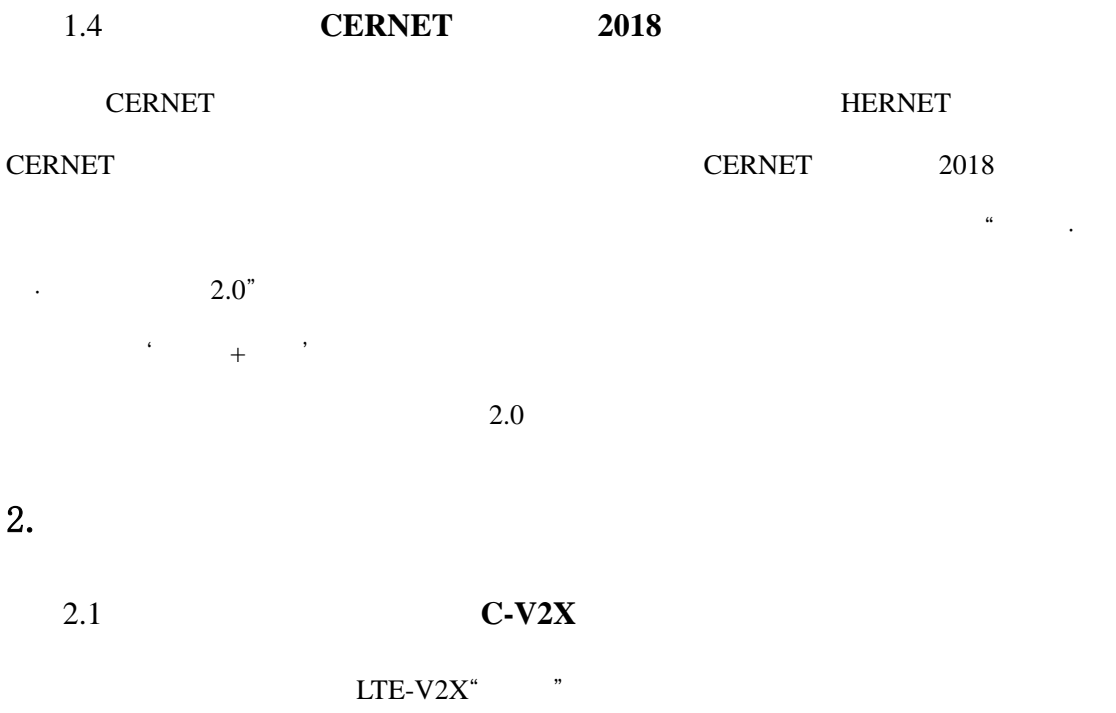
“

”



2.0

等保 1.0 时代	VS	等级 2.0 时代
<ul style="list-style-type: none"> 五个规定动作： 定级、备案、建设整改、等级测评、监督检查 	<p>工作内容</p>	<ul style="list-style-type: none"> 满足等保 1.0 时代 5 个规定动作。 增加了：风险评估、安全监测、通报预警、容灾事件调查、数据防护
<p>“移”上扩展。</p> <p>0 则把云计算、大数据、物联网、工业控制、物联网、车联网、其他信息网络等新业态也纳入了监管。</p> <p>成为八个安全控制域。</p> <p>控制要求：（以三级为例）控制数量从 290 个点，调整为 231 点（注：231=22+39+信息安全）</p>	<p>传统的网络和信息系统。</p>	<p>保护对象</p> <p>物联网、车联网、工业控制、大数据、云计算</p> <p>等保 2.0</p> <p>纳入</p> <p>缩减</p> <p>总体控制</p> <p>保护力度</p>
	<ul style="list-style-type: none"> 十个安全控制域。 总体控制要求：（以三级为例）控制数量为 290 个点（注：290=22+39+信息安全） 	<p>等级保护基本要求（为对此点）</p>



C-V2X

11 6 -8

IMT-2020 5G C-V2X

3GPP R14 LTE-V2X PC5

5905-5925MHz

3

LTE-V2X

LTE-V2X

7

/

LTE-V2X

Balung 765

C-V2X

LTE uu PC5

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)

Firecracker

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