

AWS Amazon Inspector Amazon Linux2  
Amazon Connect SOC AWS Server Migration Service  
AWS ( ) VMware  
Google Amazon AI Google

Ethereum On Azure

4K

2

OpenStack Queens  
EasyStack  
OpenStack

2017 -

360

" " EDR

Fortinet 2018 NSS

CheckPoint Check Point 0312—

Kubernetes 1.10

SmartX Rancher Labs

Face Flashing 90%

2020 Google 72

1% Windows 10 Linux

Memcached PoC

Hansa Linux

ACRN

20 G20

IETF TLS 1.3 TLS

HTTPS

3 6

KnowBe4 IT CyberArk Software

Palo Alto Networks 3

Evident.io

Virsec		Luminate Security		Solebit
2400	1400	1100	3	

2018

..... *i*  
..... *i*  
+3

2.1

**3. 99CLOUD**

3.1 OpenStack

Kolla PTL

3.2 OpenStack Queens

TOP5

3.3

.....**14**

**1.**

1.1 2017 -

1.2

1.3

1.4

**2.**

**3.**

3.1 " "

3.2

3.3

<b>2.</b>	<b>72</b>		
<b>3.</b>	<b>Memcached DDoS</b>	<b>PoC</b>	
<b>4.</b>		<b>Hansa</b>	
<b>5.</b>	<b>90%</b>	<b>2020</b>	
<b>6.</b>	<b>Linux</b>		<b>ACRN</b>
<b>7.</b>	<b>G20</b>		
<b>8.</b>			<b>20</b>
<b>9.</b>	<b>IETF</b>	<b>TLS 1.3</b>	
<b>10.</b>		<b>Windows 10</b>	<b>Linux</b>
			..... <b>30</b>
<b>1.</b>			
1.1	KnowBe4	Popcorn Training	
1.2	CyberArk Software	Vaultive	
1.3	Palo Alto Networks	Evident.io	
<b>2.</b>			
2.1	MedStack		
2.2			
2.3			
2.4			
2.5			
2.6			

+

## 1. AWS

### 1.1 AWS Server Migration Service AWS ( )

3 1 AWS Server Migration Service (SMS) AWS  
AWS ( ) AWS Server Migration Service (SMS)  
AWS AWS ( )

### 1.2 Amazon Connect SOC

3 5 Amazon Connect SOC ( ) SOC  
AWS AWS AWS  
SOC  
AWS SOC AWS

### 1.3 Amazon Inspector Amazon Linux 2

3 13 Amazon Inspector (CVE) Amazon Linux  
2  
Amazon EC2 Amazon Inspector Inspector  
Amazon Inspector AWS Amazon EC2  
Inspector EC2  
Inspector  
Amazon Inspector ( ) ( )

) ( ) ( ) ( ) ( )  
( ) ( ) ( ) ( )

### 1.4 Lambda@Edge S3

3 20 Lambda@Edge

Amazon S3

Amazon

CloudFront / S3

Lambda@Edge / CloudFront

S3 Amazon CloudFront

Access-Control-Request-Headers Access-Control-Request-Method

S3 CloudFront

CloudFront-Viewer-Country CloudFront-Is-\*-Viewer Lambda@Edge

## 2. VMware

### 2.1 VMware

3 1 VMware MWC IoT

Axis Communications Wipro Limited

VMware



VMware

VMware vSAN

HCI

VMware vSphere

VMware Pulse IoT Center

### 3. GOOGLE

3.1

AI

AI

3 1

Ashwin Ram

Google Cloud

Ram

Alexa Prize

Alexa

20

Ram

"

"

3.2

3 22

## 4. Azure

### 4.1

3 5

Azure

Azure



Azure Stack

Azure

Government

Azure

-

Tom Keane

2018

### 4.2 Ethereum on Azure

3 21

Ethereum on Azure

" "

- 

Azure VM Scale Sets (Azure VMSS)    Azure Managed Disks  
Azure VMSS

- 

- 

CPU

#### 4.3    **Azure**

3    25    Nivaura    Azure

### **5.**

#### 5.1

3    9

5.2 AliOS MCU

3 15

AliOS

AliOS

AliOS ,

" MaxCompute"

TB

PB

"

"

Alex Li

2020

1000

" ACP"

300

100

5.4

**IoT**

**5**

o(T)JTJET EMC /P AMCID630BDC BT/F1 10.56 Tf1 0 0 1 137.42 415.13 TmCB414CA087D1C5F11899236841135

"

**6.**

**6.1 VR**

**4K**

3 19 " "

4K

4K

4K

4K

4K

4K

— — " 4K

"

4K

1000

" 4K "

4K

4K

## 6.2

3 26

eBroker

O2O

## 6.3

3 27

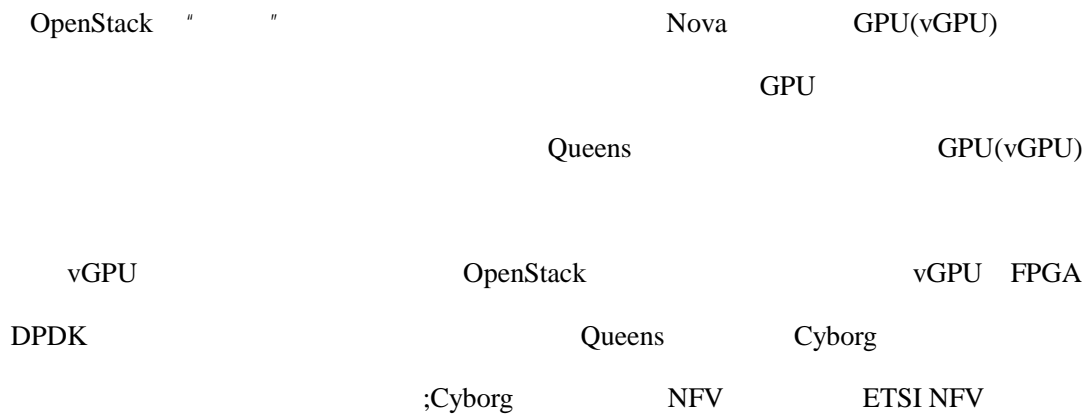
AI

6.4

3 28

CDN  
Smule APP Sing!  
CDN Sing! K APP  
Sing!  
23 42  
5

# Cyborg





### 3. 99CLOUD

3.1	<b>OpenStack</b>	<b>Kolla PTL</b>		
	Jeffrey Zhang	OpenStack	Kolla	PTL( Project Team
Lead)	CTO	Tacker	PTL	OpenStack

TOP10 Kolla Tacker  
Packaging-Rpm Freezer Sahara Solum Telemetry Watcher Horizon Cloudkitty

TOP5 Commits TOP6  
stackalytics.com Completed Blueprints Queens  
BP 17 5 Ocata  
5 Completed Blueprints OpenStack  
OpenStack

Queens Commits , 794 6  
Ocata Pike  
OpenStack Commits  
Upstream First

3.3

3 12

105 " "

**1.**

1.1 **2017** -

22.79

3.58 4.52 18.22% 168.75%

70.41% 3.21 29.52%



" ,

I3 (Independence) (Interconnect) (Intelligence),

1996

/UTM /

(IDS/IPS)

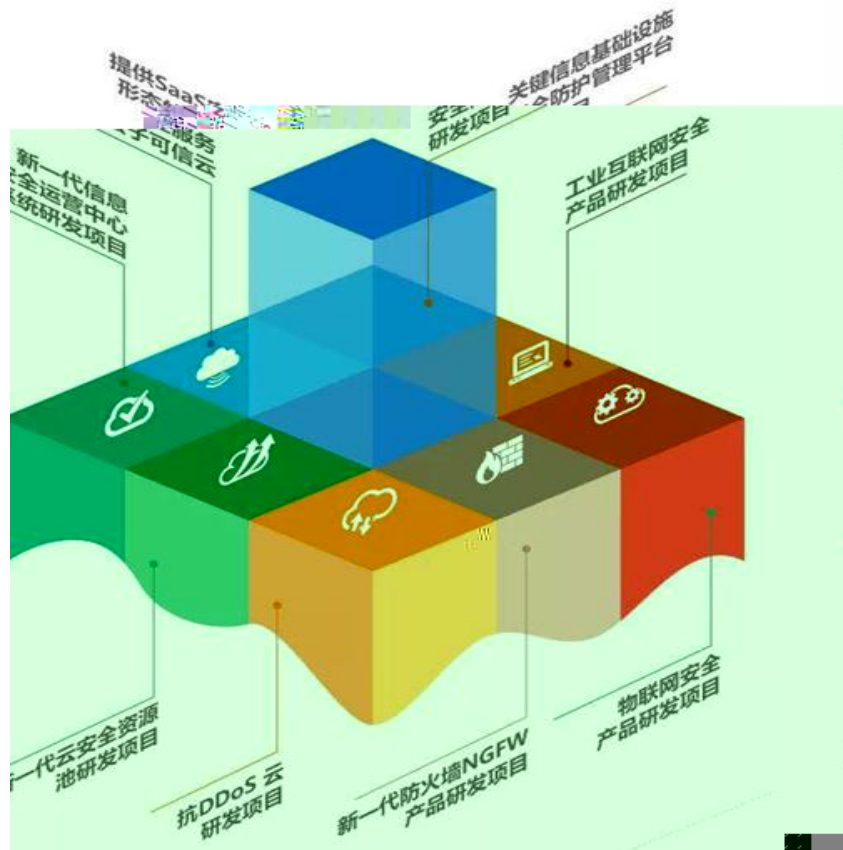
(UTM) (SOC)

(FW) Web

/ /

Vetrix

/



/

60%

80%

90%

(ADLab)

VenusEye

VF

Vetrix

IT100

863

1.2

50 60% 500  
10%

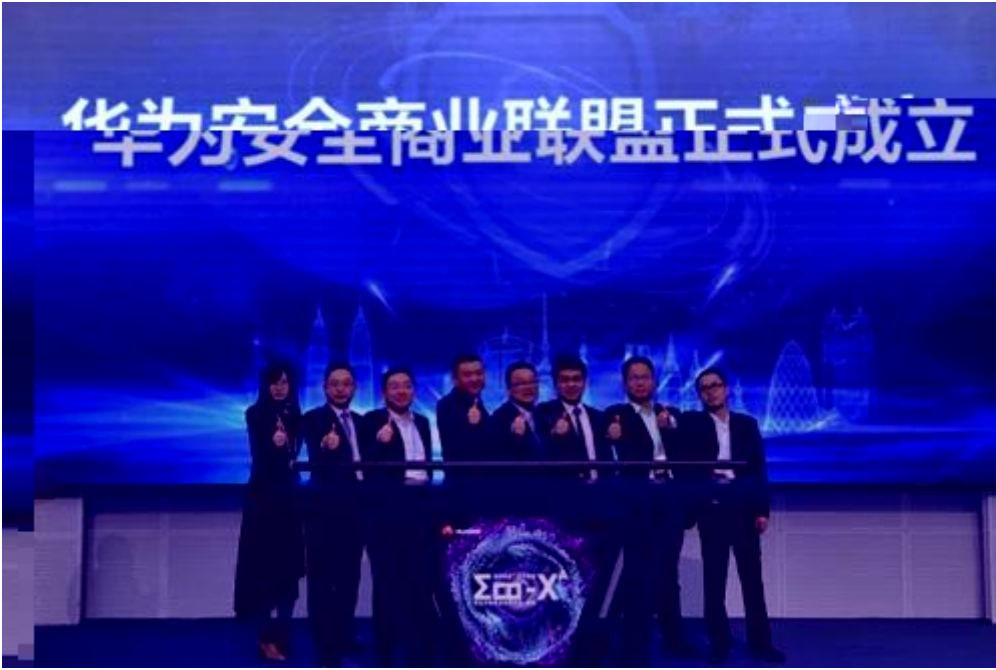
1.3

2018 3 20

“ ”

1.4

3 23



“ ”

“ ”

40

SDSec

“ ”

“ ”

2.

### 3.

#### 3.1

3 22

“ ”

“

”

“

”

#### 3.2

“ + ”

“ - ”

“ ”

APT

69%

75%

80%

IT

“

”

### 3.3 QingCloud

QingCloud qingcloud.com

Deep Security

QingCloud AppCenter

QingCloud

QingCloud

QingCloud

DDoS

SSL

WAF

QingCloud SDN

100%

Deep Security QingCloud

AppCenter

Deep Security

QingCloud

QingCloud AppCenter

QingCloud

360

QingCloud AppCenter

IT

## 4.

**5. 360**

**5.1 360**

3 29 360  
360 360  
360

3 5000

**5.2 360 " "**

360  
" "  
360

**5.3 360**

3 ( " " ) 360

360

360 "

"

360



## 8. Fortinet

### 8.1 Fortinet 2018

Fortinet FortiGuard

2018

AI

HPC

CPU

"

"

**HIVWNETS SWARBOTS**

Fortinet

(Hivenets)

PII

AI

-

"

"

"

"

— — "

"

"

"

— —

IP

IP

## 8.2 Fortinet NSS

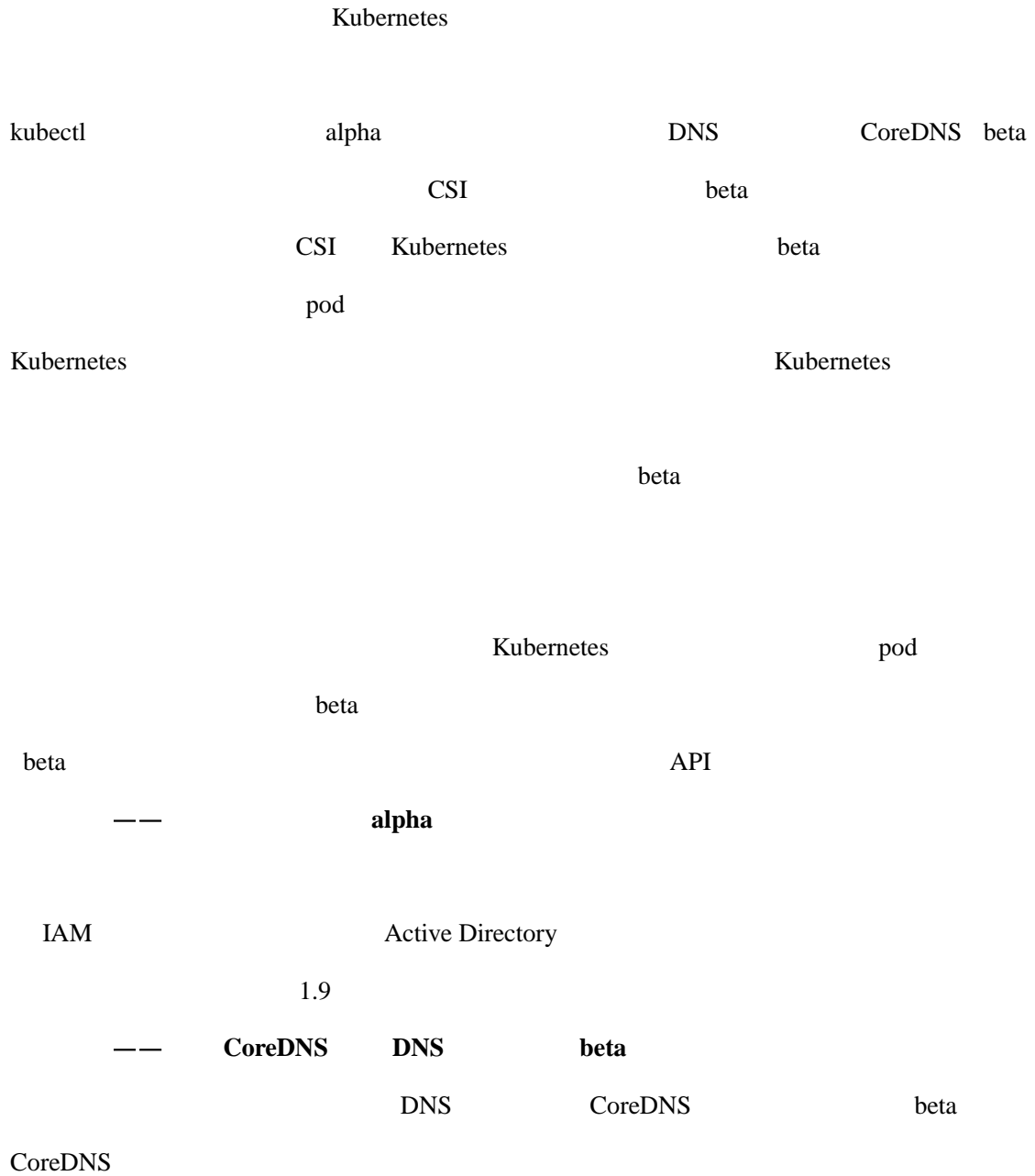
Fortinet FortiGate IPS 3000d FortiGate IPS 7060e  
NSS " " Fortinet FortiGate  
FortiGate  
IPv4 IPv6

## 9. Checkpoint

### 9.1 Check Point 0312

" RottenSys" 500 Android  
RottenSys  
RottenSys UI  
Sofacy APT Flash Player  
" DealersChoice" DealersChoice  
" " "  
Monero PostgreSQL  
" ? "  
65000  
" Dofail" Smoke Loader 12 Electroneum  
40 Windows " MediaGet" BitTorrent  
Check Point GandCrab  
GandCrab AGILE  
FakeBank Android

# 1. Kubernetes 1.10



Rancher Labs " SmartX / SmartX Ecosystem Partnership Program  
SEPP " SmartX  
SmartX Rancher Labs Docker KVM

### 3. Docker Cloud

Docker

Swarms

Docker

Docker

Swarm

Docker

Swarm

### 1. Face Flashing

Face Flashing

LCD

### 2. 72

Google

Bristlecone

Bristlecone

72

1%

Google

Google Bristlecone

### 3. Memcached DDoS PoC

Memcached DDoS - DDoS 1.7Tbps  
Memcached PoC Memcached DDoS  
DDoS  
1.7 Tbps memcached DDoS PoC  
Memcached DDoS memcached DDoS  
PoC Python Shodan API  
Memcached memcached DDoS  
C Memcached  
memecache-amp-03-05-2018-rd.list 03-05-2018 memcached

### 4. Hansa

Hansa  
2016 Bitdefender  
Hansa  
" -  
" 2016 10

Hansa

### 5. 90% 2020

Spiceworks 2020 90%

57% 14% 5  
3 2 2  
46% 25% 22% IT

## 6. Linux ACRN

Linux ACRN  
Linux ACRN  
ACRN  
ACRN  
VM

## 7. G20

G20 G20  
G20  
G20

## 8. 20

SC Media US DDoS  
20  
Google Cloud

## 9. IETF TLS 1.3

IETF TLS  
IETF TLS 1.3 TLS  
28 28 TLS 1.3  
HTTPS -TLS 1.2  
TLS 1.3 MD5 SHA-224  
ChaCha20 Poly1305 Ed25519 x25519 x448  
TLS 1.3 TLS 1.3  
TLS False Start 0-RTT  
TLS 1.3

## 10. Windows 10 Linux

Linux Linux Linux  
WSL Windows 10 Windows 10 PC Linux  
Ubuntu SUSE Kali Linux Debian  
Windows OS  
Linux WSL Linux

## 1.

### 1.1 KnowBe4 Popcorn Training

3 5 KnowBe4 Popcorn Training KNOWBE4

Popcorn Training

**1.2 CyberArk Software Vaultive**

3 12 CyberArk Software Vaultive CyberArk Software  
IT  
Vaultive

**1.3 Palo Alto Networks Evident.io**

3 14 Palo Alto Networks 3 Evident.io Palo Alto  
Networks Nir Zuk 2005  
Evident.io  
Evident

**2.**

**2.1 MedStack**

3 1 MedStack MedStack HIPAA  
60%

**2.2 Snyk 700 A**

3 6 Snyk Boldstart Ventures 4 700 A  
Snyk

**2.3 Bitt 300 B**

3 8 Bitt Medici Ventures 300 B Bitt

**2.4 Solebit 1100 A**

3 14 Solebit ClearSky 2 1100 A Solebit  
APT 0Day

**2.5 Luminate Security 1400 A**

3 14 Luminate Security Aleph U.S. Venture Partners 1400 A  
Luminate Security  
The Secure Access Cloud

**2.6 Virsec 2400 B**

3 20 Virsec Amity Ventures 4 2400 B  
Virsec 2014