

AWS

Linux2

Comcast

VMware

Pure Storage

Google

Avere

ET

2017

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Fortinet

2018

CES

CheckPoint

SandBlast

NSS Labs

(TCO)

Infinity Total Protection

CoreOS

kubernetes

CNCF

Rook

Docker

LCOW

Docker

Linux

Windows

Bloomberg

Kubernetes

PowerfulSeal

OpenStack

Buoyant

Kubernetes

“ Conduit ”

linkD

VMware

github

Serverless

Dispatch

Open Whisper Systems Signal

Skype

E2E

Skygofree

Alphabet

Chronicle

Chrome 64

Spectre

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8

Threatcare

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140

Savage Security

FireEye

X15 Software Sumo Logic

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1. AWS

1.1 AWS Linux2

1.2 AWS

1.3 Comcast AWS

1.4

2. VMware

2.1 Pure Storage VMware

3. GOOGLE

3.1

4. Azure

4.1 Avere

4.2

4.3 AI

4.4 Azure

5.

5.1 BTV

5.2

5.3

5.4 EHPC -

5.5 CDN

5.6 CodePipeline - -CodePipeline()

5.7

5.8 -

5.9

5.10

5.11 AI ET

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6.2 CDN

6.3 “ + ”

6.4 TCE AI

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1. **Openstack**

1.1

Mirantis

Ardrian Lonel

CEO

Openstack

2. **Easystack**

2.1

AWS+EasyStack

re:Invent

2.2

EasyStack

OpenStack

3. **99CLOUD**

3.1

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3.2

OpenStack

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2017

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Meltdown Spectre

2.

2.1

Gartner IDPS

2.2

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3.1

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NIDS/NIPS

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4.2

2017

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5. **360**

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2017

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- 9.1 Check Point Technologies Infinity Total Protection
- 9.2 Check Point SandBlast NSS Labs
(TCO)

1. CoreOS

+

1. AWS

1.1 AWS Linux2

1 3 AWS Linux

Linux2

Linux2

Linux 2

VMware Microsoft hyper-v

Oracle VM VirtualBox



Linux2

5

Bug

Linux2

1.2 AWS

1	10	AWS
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1.3 Comcast AWS

1	16	AWS	Comcast Cable	AWS
		Comcast		Comcast
NBC	Comcast	XFINITY		
		XFINITY		
	NBC		NBC Telemundo	

1	17	Auto Scaling	AWS
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3. GOOGLE

3.1

1 16 AlphaBet 5 3

4. Azure

4.1

4.3 AI

1 22

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AI “ ”

4.4 Azure

1 23 Monza Cloud Azure AzStudio AzStudio
Microsoft Azure
40-60%

5.

5.1 BTV

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OSS NAS Plus

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5.3

1 11

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2017 2 “ + ” “ ”

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2018

5.4 EHPC -

1 11 EHPC E-HPC
HPC

5.5 CDN

1 12
2017 12 31 104
70 CDN 147
CDN
CDN

5.6 CodePipeline - -CodePipeline()

1 15 CodePipeline CodePipeline
/ Jenkins Jenkins
SAAS CodePipeline

5.7

1 16

5.8 -

1 19 Cloud Call Center
IVR

5.9

1 19

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5.11		AI	ET	
1	29		MDEC	DBKL
		ET		
			281	

6.4 TCE AI

1 22 TCE

AI



TCE IaaS PaaS SaaS

9 50

TCE

AI TCE AI

API SDK

AI

TCE PaaS Spring Cloud

Mysql TDSQL

6.5 1

CCI - CCI

Devmaster - Devmaster

DevOps

TGit

TGit

- TGit

Devmaster

TGit

1. Openstack

1.1 **Mirantis** **Ardrian Lonel** **CEO** **Openstack**

1 25 Mirantis Ardrian Lonel CEO Mirantis

OpenStack CEO

Kubernetes

2. Easystack

2.1 **AWS+EasyStack** **re:Invent**

1 10 AWS re:Invent 2017 Recap EasyStack AWS

OpenStack+ AWS ESCloud Hybrid

OpenStack AWS

EasyStack + AWS

2.2 **EasyStack** **OpenStack**

1 12 OpenStack EasyStack

3. 99CLOUD

3.1 “ . Õ R

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3.2 OpenStack

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1.1 2017

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1.2 Meltdown Spectre

Google Project Zero Meltdown
CVE-2017-5754 Spectre CVE-2017-5753/CVE-2017-5715 CPU

CPU

2.

2.1 Gartner IDPS

Gartner IDPS Intrusion Detection and Prevention Systems

Gartner

3.2

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IT

3.3

CPU

4.

4.1 NIDS/NIPS “ ”

2018 1 Gartner IDPS(Intrusion Detection and Prevention Systems

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7.2 Flyme “ ”

8. Fortinet

8.1 Fortinet 2018 CES

Fortinet		
Fortinet FortiOS	R-Car H3	SoC
Fortinet	Renesas	CES
IPS	DDoS	

9. Checkpoint

9.1 Check Point Technologies Infinity Total Protection

CheckPoint

APT

SDN

IOS Android

EMM

9.2 Check Point SandBlast NSS Labs (TCO)

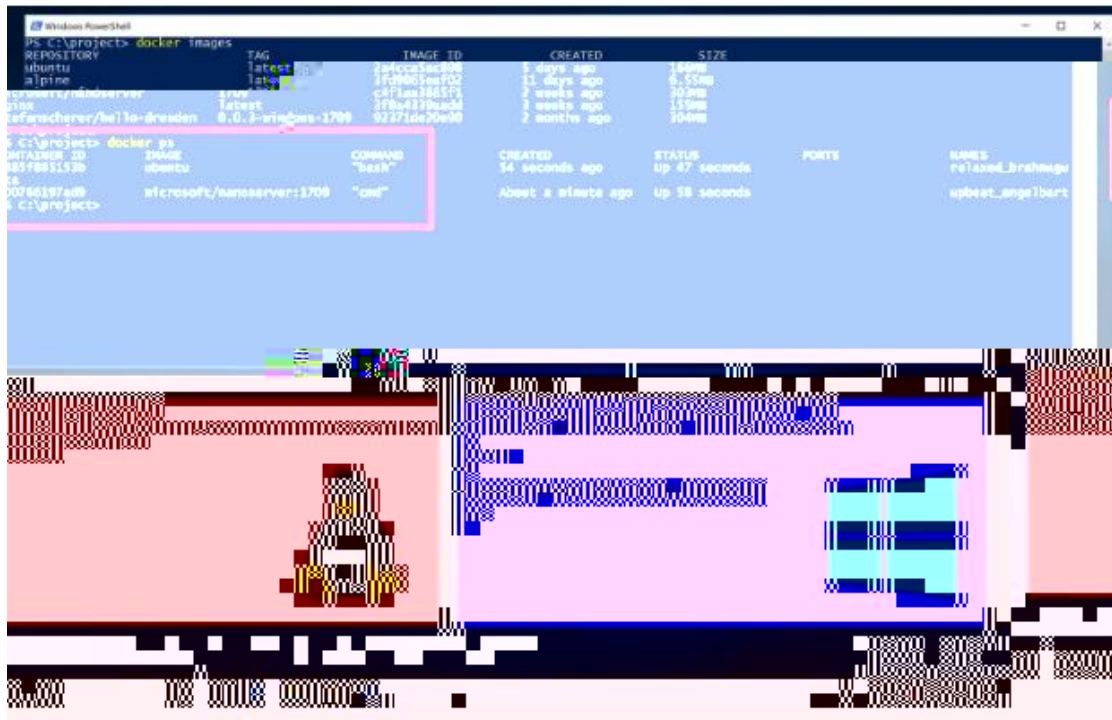
“ ”

1. CoreOS



2. CNCF

-ROOK

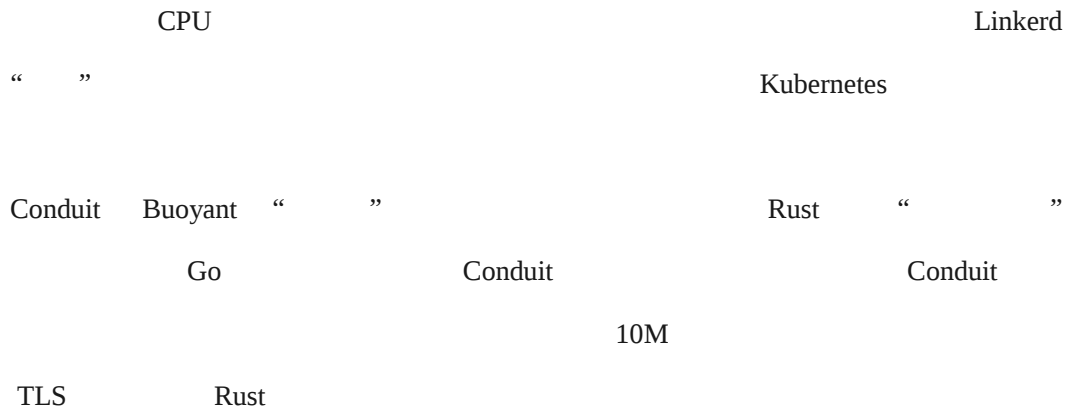


4. Bloomberg Kubernetes

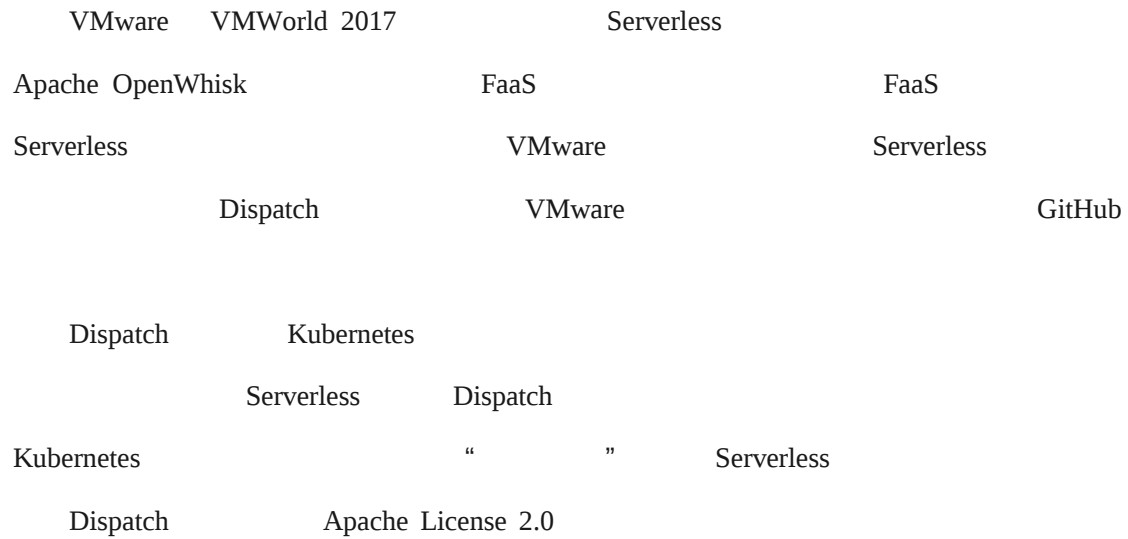
Austin	KubeCon	Bloomberg
“PowerfulSeal”	Kubernetes	Pods
PowerfulSeal	“ ”	Netflix Chaos Monkey
“ ”		
PowerfulSeal	Python	Kubernetes
OpenStack	PowerfulSeal	Python AbstractDriver

5. Buoyant Kubernetes “Conduit”

Linkerd	Buoyant	Kubernetes
“Conduit” Conduit	Rust	Go Conduit
Linkerd 2.0	Kubernetes	Buoyant
Linkerd		
Linkerd	Finagle Netty Scala JVM	



6. VMware github Serverless Dispatch



1. Signal Skype

Open Whisper Systems Signal
 Skype E2E Skype
 Skype
 Signal Facebook WhatsApp Facebook Messenger
 Google Allo
 E2E Skype

2. Skygofree

2014 Skygofree
 Android Accessibility
 Services WhatsApp Wi-Fi
 Skygofree
 2015 Skygofree
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 IT “ Negg ” “ Negg ”
 Skygofree Skygofree exploit,
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 Skygofree shell C C

3. Alphabet

Chronicle

Google Alphabet
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 · Stephen Gillet Chronicle

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2.4	Cryptomove		600	A			
	1	12	Cryptomove	408 Ventures	4	600	A
CryptoMove							