AWS Linux2

Comcast VMware Pure Storage

Google

Avere

ET Ǵ ȯ

TCE

Mirantis OpenStack

Kubernetes EasyStack AWS

OpenStack “

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Intel CPU

Meltdown Spectre

Gartner IDPS

NGFW “ ”

2017

NIDS/NIPS “ ” 360

2017

“ ” 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

4 8

Threatcare 1 140 Savage Security

FireEye X15 Software Sumo Logic

FactorChain

Hackerone Breaker 101

Anomali Algosec

SOC Arctic Wolf Networks 4000 3600

1600 1

1000

2018 2 2

+

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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

1.3 Comcast AWS

1 16 AWS Comcast Cable AWS

Comcast Comcast

NBC Comcast XFINITY

XFINITY

NBC NBC Telemundo

1.4

1 17 Auto Scaling AWS

2. VMware

2.1 Pure Storage VMware

1 25 Pure Storage VMware VMware

Pure Storage

VMware vSphere® Metro Storage Cluster vSphere Virtual Volumes™ VMware Validated Design™

3. GOOGLE

3.1

1 16 AlphaBet 5 3

4. Azure

4.1 **Avere**

1 4 Avere Systems

Avere Systems 2008

Avere Systems Linux

Windows NFS SMB

Azure

Avere Systems

Avere Systems 8600

4.2

1 10

4.3 **AI**

1 22

“ ”

AI “ ”

4.4 **Azure**

1 23 Monza Cloud Azure AzStudio AzStudio

Microsoft Azure

40-60%

5.

5.1 **BTV**

1 4

IaaS PaaS SaaS CDN

97.55 250 BTV

5.2

1 9 OSS NAS Plus

50

“ ”

5.3

1 11 “ ”

2017 2 “ + ” “ ”

“ ”

“ ”

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

+

5.10

1 19 (“ ”)

“ - ” (“ ”)

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5.11 **AI** **ET**

1 29 MDEC DBKL

ET

281

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2) “ ”

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6.2 **CDN**

1 12

2017 12 31 104

70 CDN 147

CDN

CDN

6.3 **“ + ”**

1 19 “ +”

“ +”

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

- v1.0

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CVM API 1

2 3

- 1

ID IP / 2 IP

7.

7.1

1 11

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 “ ”

1 4 • “

” OpenStack

Ceph

OpenStack Docker

CEPH SDN

500

3.2 OpenStack

1 25 ,

1.

1.1 2017

“ ” 2017 6 1

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

Gartner

2.2

NGFW

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SMTP POP3

inbound outbound

3.

3.1 “ ”

2017 “ ” “ ”

OfficeScan Deep Security

3.2 5G “ ”

IT

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-
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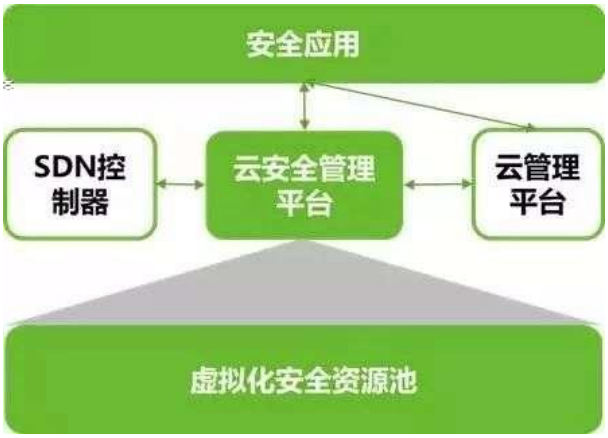
3.3

CPU

4.

4.1 NIDS/NIPS “ ”

2018 1 Gartner IDPS(Intrusion Detection and Prevention Systems


安全应用
SDN控制器
云安全管理平台
云管理平台
虚拟化安全资源池

SDN

安全态势感知
网络入侵
僵木蠕
异常流量
系统漏洞
网站安全

5. 360

5.1 360

360 VMware

360 VMware

360 VMware VMwareReady™

360 VMware vSphere NSX®

VMwarevSphere®5.0/5.1/5.5/6.0/6.5 NSX6.2.4/6.3.0 VMware 360

vSphere NSX

5.2 360

360 360

360

5.3 360

360 “ ”

CPU

6.

6.1 2017

1 17 2017

2017

3

“ ”

6.2 “ ”

“ ” “

” “

”

7.

7.1

“

”

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 Tecnologies Infinity Total Protection

CheckPoint

- APT
- SDN
- IOS Android EMM
-
-

9.2 Check Point SandBlast NSS Labs (TCO)

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“ ”

1. CoreOS

!

2. CNCF -ROOK

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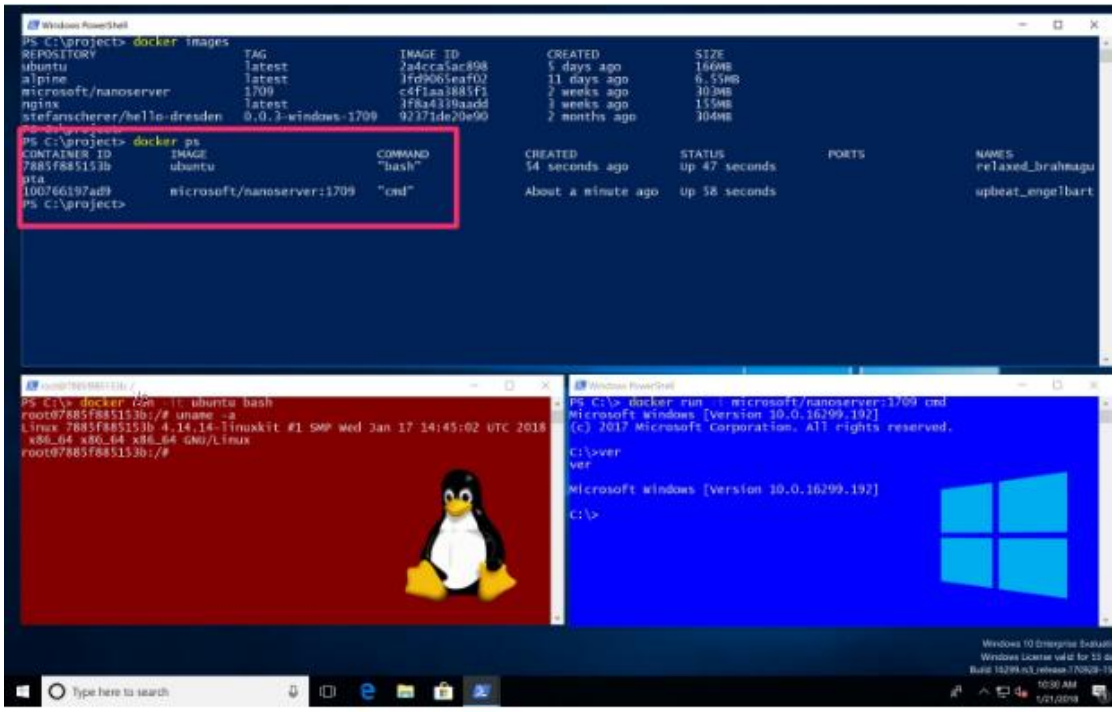


4. Bloomberg Kubernetes

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

CPU Linkerd

“ ” Kubernetes

Conduit Buoyant “ ” Rust “ ”

Go Conduit Conduit

10M

TLS Rust

6. VMware github Serverless Dispatch

VMware VMWorld 2017 Serverless

Apache OpenWhisk FaaS FaaS

Serverless VMware Serverless

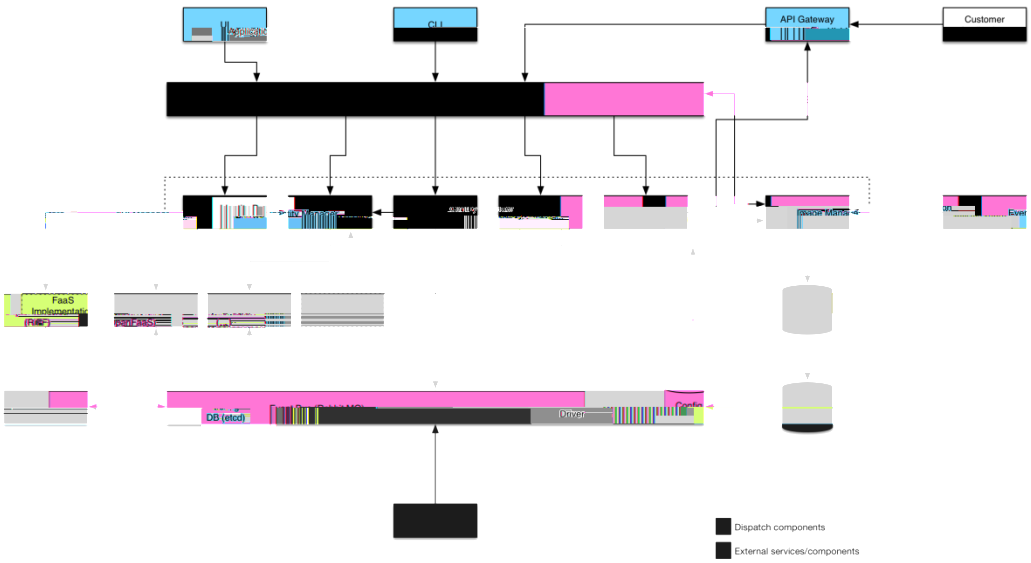
Dispatch VMware GitHub

Dispatch Kubernetes

Serverless Dispatch

Kubernetes “ ” Serverless

Dispatch Apache License 2.0



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

Skygofree IT Skygofree

IT “ Negg ” “ Negg ”

Skygofree Skygofree exploit,

root Android

Skygofree shell C C

3. Alphabet

Chronicle

Google Alphabet

Chronicle 2016 X ——Alphabet “ ”

“ ” Chronicle

· Stephen Gillet Chronicle

4. Chrome 64 Spectre

Windows Mac Linux Android Chrome 64 Chrome

Meltdown Spectre

Chrome 64 API CSS JavaScript ECMAScript

Chrome V8 JavaScript Chrome 64

5.

WEF “

” - 48

“ ” 2018

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1.

1.1 Threatcare Savage Security

1 9 Threatcare Savage Security Threatcare

Savage

Security

1.2 FireEye X15 Software

1 11 FireEye X15 Software FireEye

Web Email

X15 Software

1.3 Sumo Logic FactorChain

1 23 Sumo Logic FactorChain Sumo Logic

FactorChain

1.4 HackerOne Breaker 101

1 24 Hackerone Breaker 101 HackerOne

Breaker 101

“ ”

2.

2.1 Algosec 3600

1 3 Algosec Claridge Israel 3600 AlgoSec

2.2 Threatcare 140

1 4 Threatcare Firebrand Ventures 2 140

Threatcare

2.3 Arctic Wolf Networks 1600 C

1 10 Arctic Wolf Networks Knollwood Investment Advisory 3

1600 C Arctic Wolf Networks SOC

“ ”

Arctic Wolf

2.4 Cryptomove 600 A

1 12 Cryptomove 408 Ventures 4 600 A CryptoMove

2.5 Anomali 4000 D

1 17 Anomali Deutsche Telekom Capital Partners 7 4000 D Anomali

2.6 Hysolate 800

1 22 Hysolate Innovation Endeavors Team8 800 Hysolate

2.7 Tigera 1000

1 25 Tigera Madrona Venture Group 2 1000 Tigera

2.8 Allure Security Technology 530

1 25 Allure Security Technology Glasswing Ventures 3 530 Allure Novo