

AWS Linux2
Comcast VMWare Pure Storage
Google
Avere
ET

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 Comcast
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



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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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5.10

1 19

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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

-

CVM

API

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ID IP

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IP

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7.1

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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

,

SMTP POP3

inbound outbound

3.

3.1 " "

2017 " " " "

OfficeScan

Deep Security

3.2

5G

"

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IT

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-
-

3.3

CPU

4.

4.1 **NIDS/NIPS** " "

2018 1 Gartner IDPS(Intrusion Detection and Prevention Systems)



SDN





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

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CPU

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2017

1 17

2017

2017

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6.2

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7.1

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7.2

Flyme"

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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

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APT

SDN

IOS Android

EMM

9.2 Check Point SandBlast NSS Labs (TCO)

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1. CoreOS

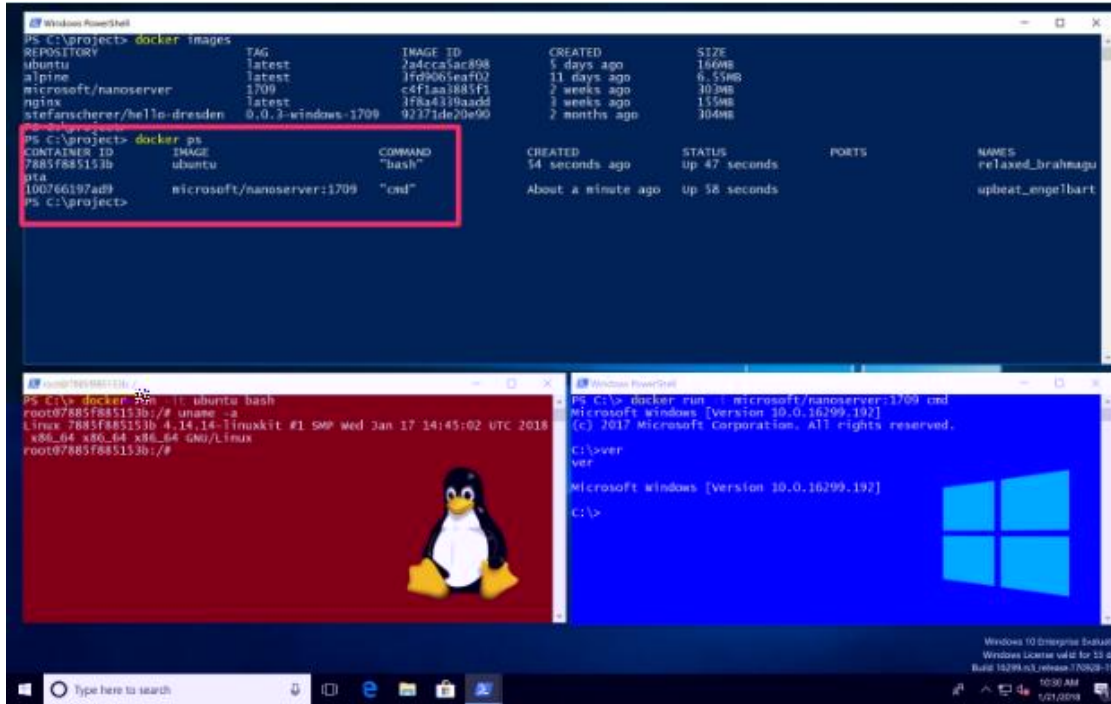


2. CNCF

-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 |

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
/

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