*.....21*

1.1 CEO .....21
1.2 2019 .....23
1.3 .....24

2.1 “ ”.....28

3.1 2019 CDM 3 .....29

5.1 EDR .....31

+ 2019 03

# AWS

Kubernetes1.14 windows

kubectl 31 Istio1.1

CNCF Kubernetes Prometheus Envoy CoreDNS

containerd

App 9 App

Facebook

UC (MITM)

W3C

# +

## AWS

### 1.1 AWS Elemental MediaPackage

3 4 AWS Elemental MediaPackage MediaPackage

MediaPackage

MediaPackage AWS Elemental Media Services

### 1.2 Elemental MediaLive HLS VPC

3 5 HLS AWS Elemental MediaLive MediaLive

#EXT-X-KEY MediaLive

Amazon Virtual Private Cloud (Amazon VPC) MediaLive

VPC VPC VPC IP

RTP RTMP

AWS Elemental MediaLive

AWS Elemental Media Services AWS

Elemental Media Services

## 1.3 Amazon ECS

3 7 Amazon Elastic Container Service (Amazon ECS)

AWS

Sidecar

ECS

## 1.4 License Manager CPU

3 8 AWS AWS License Manager

License Manager

License Manager

CPU vCPU

vCPU License Manager

## 1.5 Elemental MediaConvert S3

3 13 AWS Elemental MediaConvert

Amazon CloudWatch

Amazon S3 MediaConvert

Amazon CloudWatch

## 1.6 AWS Direct Connect 500 Mbps

VMware AWS

Amazon

VMware 1000 VMware AWS

“ ” VMware Ajay Patel

“ ”

VMware Cloud Foundation Dell EMC VxRail

VMware

VMware

60 IDC

VMware vCloud Availability 3.0 vCloud Director

# GOOGLE

## 3.1 Stadia

3 20 CEO Sundar Pichai GDC Stadia

Phil Harrison YouTube YouTube

“ ”

“ ”

Chrome

Stadia Wi-Fi “

” YouTube Google Assistant

25Mbps 4K 60 fps, 8K 120

AMD GPU 10.7Terraflops Xbox One X PS4 Pro

Project Stream Chrome

Assassin ’ s Creed Odyssey

1 Doom Eternal

Stadia 4K 60 HDR

## 3.2 Google

3 23

( )

“ 2015 ” “

” (NLP)

Google

Google Google

## Azure

### 4.1 Azure Bot AI

3 16 Azure Bot

FUSE Lili Cheng “

- “

Microsoft Bot Framework Skype

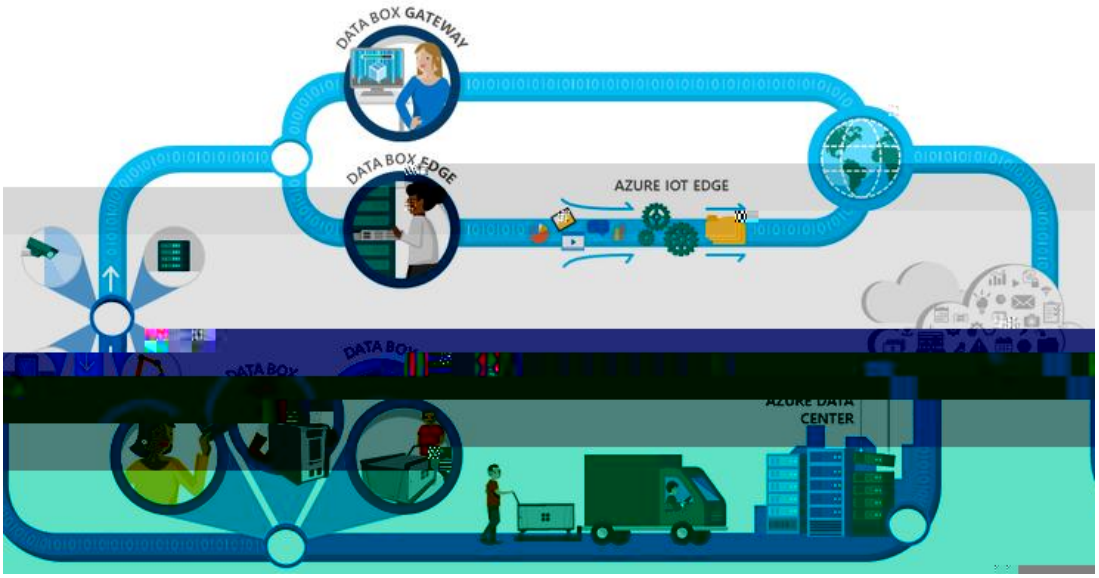
Microsoft Teams Facebook Messenger Kik

Azure Bot

(LUIS) LUIS

## 4.2 Data Box Edge 5

3 27




Azure 5

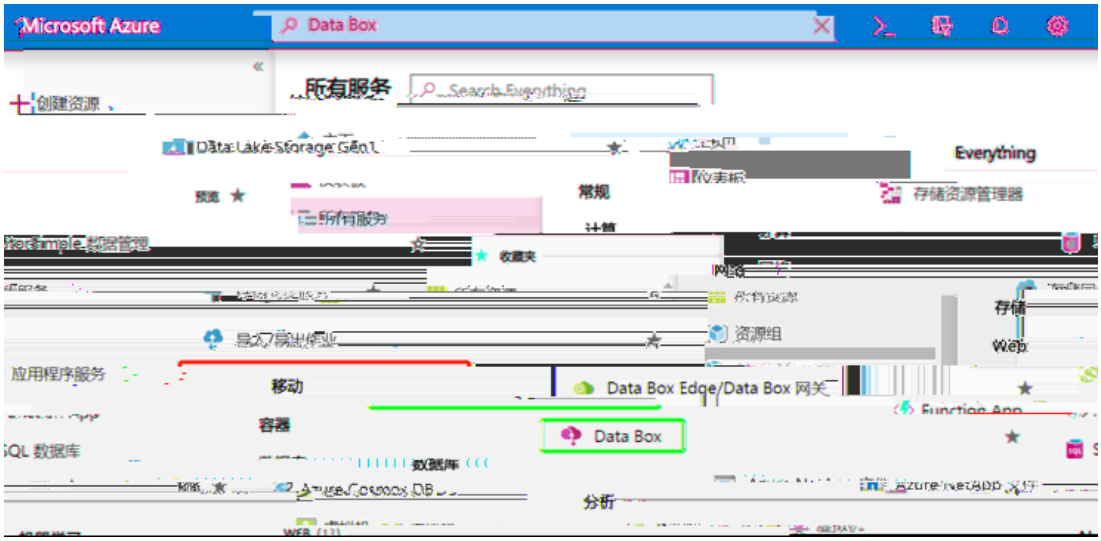
**5 Data Box**

**Data Box Edge Azure Data Box Gateway2**

**Data Box Data Box Disk Data Box Heavy Preview3**

Azure Data Box Dean Paron Azure

Azure

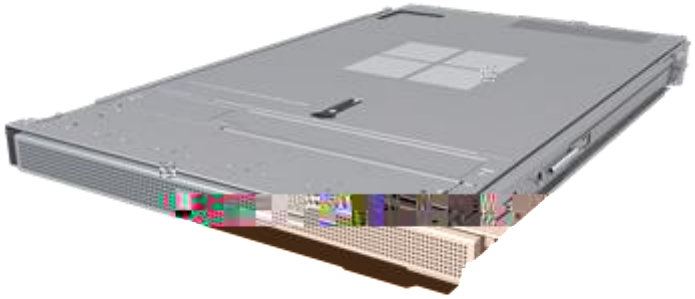


**Data Box Edge**

Data Box Edge Azure

Azure Data Box Edge

Data Box Edge IoT Edge Azure



**Data Box Edge**

Data Box Edge

Data Box Edge

Data Box Edge

Azure

Data Box Edge

Data Box Edge

Azure Data Box Edge

**Arria 10 FPGA** **Azure** FPGA

Azure

ב

SaaS SaaS

“ ” SaaS

SaaS

SaaS SaaS

SaaS

## 6.1

3 21

“

AI

”

Taurus 3

OBS( ) 11 9(99.99999999%)

Taurus

0 /

Taurus MySQL 7 ;

Taurus

1/10

Taurus 1 15 /

CPU Taurus

128TB

Taurus DBSS( )

Taurus MySQL 8.0 MySQL

Taurus

**Gemini**

Gemini Cloud Native Serverless

Region NoSQL NoSQL

/ MongoDB Cassandra DynamoDB

Gemini 3 Gemini

Serverless



Cem 379.97 Tmni

Gemini 7*24

Gemini Region

**DRS**

? ? ?

DRS

DRS ε ”

7.2

3 27

OBS

**AI**

AI

; ;IT ;

“ AI ”

“ ”

BMS OBS

30% AI

# Openstack

## 1.1 OpenStack Train

3 26 OpenStack OpenStack Train

Project Team Leader, PTL 6 OpenStack

PTL PTL

OpenStack

Core

PTL OpenStack

PTL

PTL OpenStack

Murano Solum PTL Freezer PTL

Senlin PTL Zun PTL Watcher

PTL

2016 OpenStack

P/Q/R

PTL 13 11

OpenStack PTL

# Easystack

## 2.1 EasyStack OpenStack

3 14 OpenStack TC

EasyStack OpenStack

OpenStack OpenStack

+ 2019 03

“

”

1

SDWAN NGFW IT

1.3

IoT-VBox

IoT-VBox API

/

+ 2019 03

HIS PACS

## 3.1 2019 CDM 3

3 6 Cyber Defense Magazine

The Most Innovative Data Center Security for 2019 :

X10800

X10800

X10800

1Tbps 1000

**4.2B+**

## 5.1 **EDR**

“ ” APT

NSFOCUS Endpoint Detection and Response NSFOCUS EDR

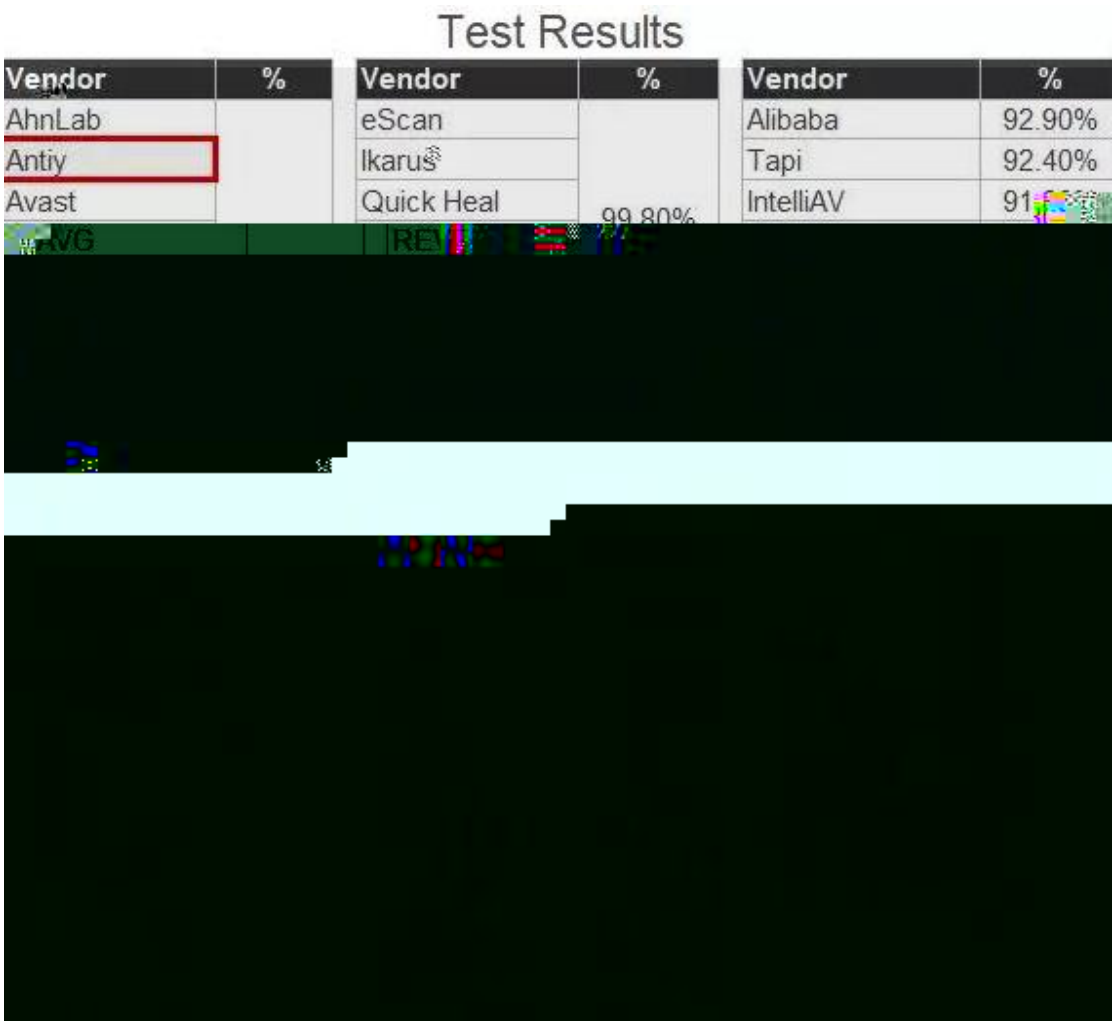
(EDR)

Gartner 2020 80% 25% 10%

AiLPHA

360TrustSpace 360

IT



Test Results

| Vendor | % | Vendor | % | Vendor | % |
|---|---|---|---|---|---|
| AhnLab | | eScan | | Alibaba | 92.90% |
| Antiy | | Ikarus | | Tapi | 92.40% |
| Avast | | Quick Heal | 99.80% | IntelliAV | 91 |
| AVG | | REV | | | |

2006

AVL SDK

863

## Fortinet

## Checkpoint

+ 2019 03

kubectl :kubectl kubectl

kubectl porcelain

set-ns

SSD

**PID beta**

beta Pod PID Pod

Pod PID node allocatable Pod

PID alpha Pod Pod PID

Pod Kubernetes Pod

Pod Pod

Pod Readiness Gates Pod

RBAC clusterrolebingdings

API CRD

## 2. Istio 1.1

https://istio.io/docs/concepts/performance-and-scalability/

Kubernetes

## 3. containerd

containerd AWS Cloud Foundry Docker IBM Rancher Labs

Kubernetes Prometheus Envoy CoreDNS containerd

2014 containerd Docker Docker 2017 3 containerd

Docker OCI runc

containerd

[2] containerd

[3] CII 2018 9 1 CII [4]

**containerd**

containerd

Containerd Linux Windows

containerd ——

containerd https://github.com/containerd/containerd

## 1. W3C WebAuthn Web

W3C Web API WebAuthn Web

WebAuthn 2015 11 W3C Fido

W3C Airbnb IBM

Mozilla PayPal Yubico

/ FIDO Android

W

1 PhotoLoop 20.4 7.9.0

2 1.0 2.2.0

3 Remember Everything- 1.1.0 - 1.0

- 1.0 Cuncaoxin Education 1.0.6

1.1

## 5. ISACA CASB GDPR

ISACA

CASB GDPR

IT CASB

ISACA CASB CASB

ISACA

GDPR

## 6. Sandboxed API

Sandboxed API

Sandboxed API C C++

Sandbox2 Linux ISE

“ Sandboxed API

”

## 7. Facebook

KrebsOnSecurity Facebook

Facebook

Facebook

Facebook Lite Facebook Instagram Facebook Lite

Facebook

## 8. UC (MITM)

UC

UC HTTP

hook UC

UC

UC

UC

## 1.

### 1.1 Verizon Communications ProtectWise

3 1 Verizon Communications ProtectWise Verizon(VZ)

AT&T

ProtectWise

ProtectWise

2013 4

ProtectWise

ProtectWise Cloud Network DVR

ProtectWise

# 2.

## 2.1 eSentire 4700

3 4 eSentire Edison Partners 2 4700

eSentire

eSentire

## 2.2 LogRocket 1100 A

3 21 LogRocket Battery Ventures Matrix Partners 1100 A

LogRocket bug

## 2.3 Attivo Networks C

3 21 Attivo Networks Bain Capital 3 C

Attivo Networks

SCADA

## 2.4 CyberX 1800