

			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

AWS

Kubernetes1.14

windows

kubectrl

31

Istio1.1

CNCf

Kubernetes

Prometheus

Envoy

CoreDNS

containerd

App

9

App

Facebook

UC

(MITM)

W3C

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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

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” VMware

Ajay Patel

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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 10.7Teraflops Xbox One X PS4 Pro

Project Stream

Chrome

Assassin ' s Creed Odyssey

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Doom Eternal

Stadia 4K 60 HDR

3.2 Google

3 23

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” (NLP)

Google

Google Google

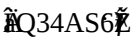
Azure

4.1 **Azure Bot** **AI**

3 16 Azure Bot

FUSE Lili Cheng “

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Microsoft Bot Framework  Skype

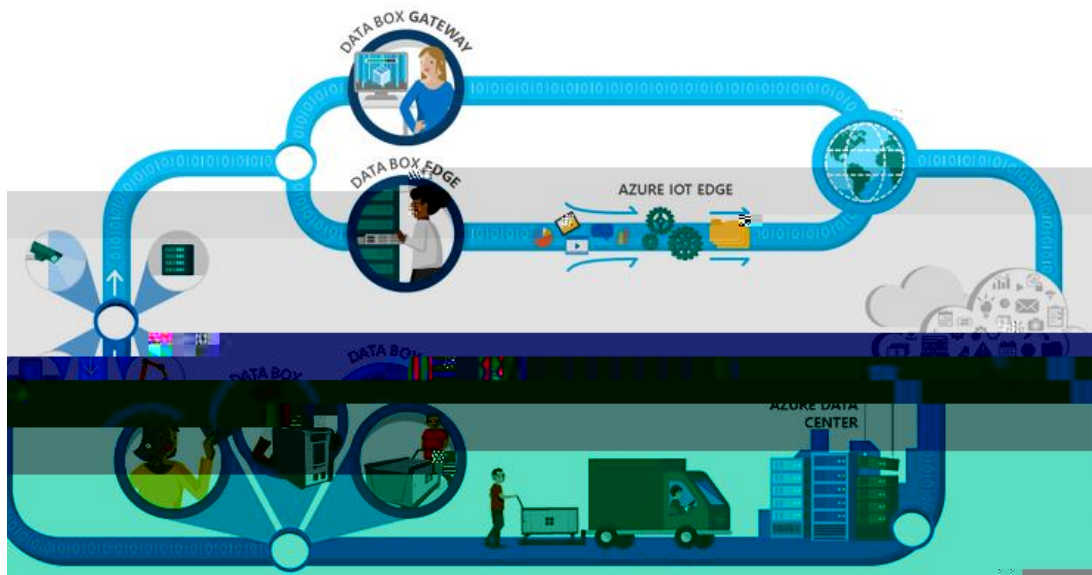
Microsoft Teams Facebook Messenger Kik

Azure Bot

(LUIS) LUIS

4.2 Data Box Edge 5

3 27



Azure

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5 Data Box

Data Box Edge Azure Data Box Gateway2

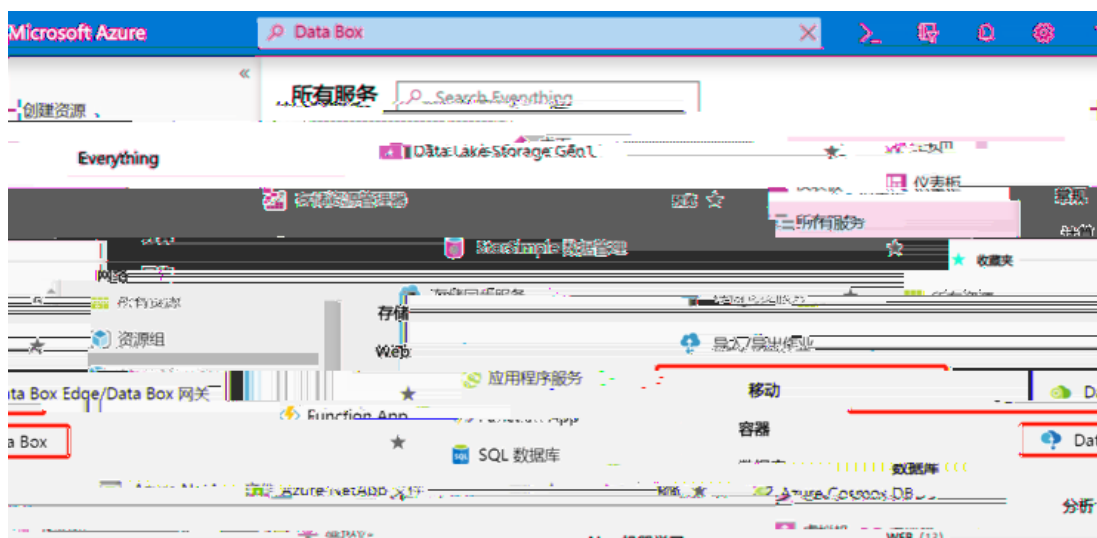
Data Box Data Box Disk Data Box Heavy Preview3

Azure Data Box

Dean Paron

Azure

Azure



Data Box Edge

Data Box Edge

Azure

Azure

Data Box Edge

Data Box Edge

IoT Edge

Azure



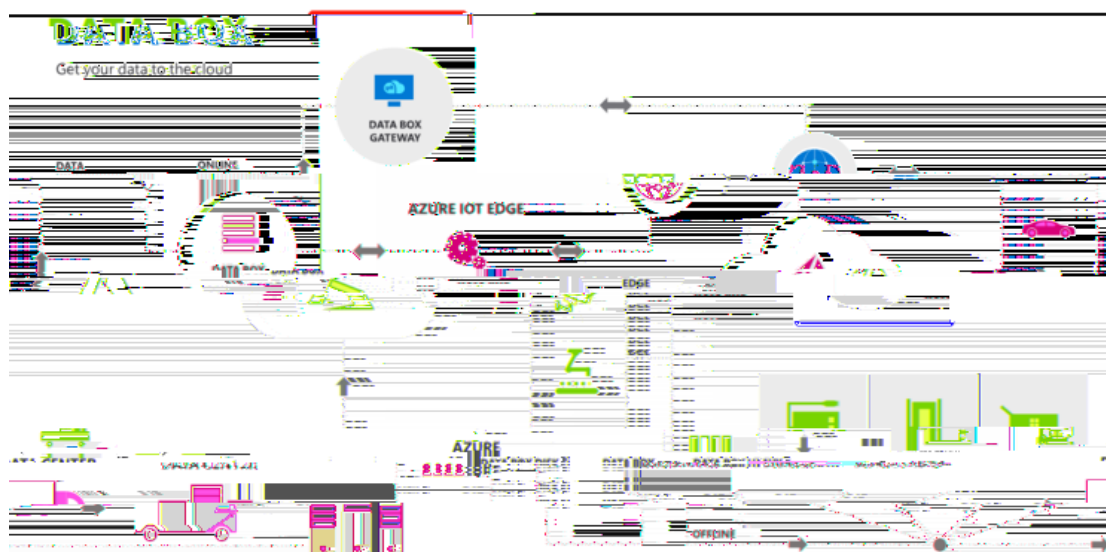
Data Box Edge

Data Box Edge

Data Box Edge

Data Box Edge

Azure



Data Box Edge

Data Box Edge

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Data Box Edge

Arria 10 FPGA Azure

FPGA

Azure



SaaS

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MySQL 7 ;

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Taurus 1 15 /

CPU

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128TB

Taurus DBSS()

Taurus

MySQL 8.0

MySQL

Taurus

Gemini

Gemini	Cloud Native		Serverless	
Region	NoSQL			NoSQL
/	MongoDB	Cassandra	DynamoDB	
Gemini			3	Gemini
Serverless				

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2019

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OBS

AI

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AI

Openstack

1.1 OpenStack Train

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OpenStack

OpenStack Train

Project Team Leader, PTL

6

OpenStack

PTL

PTL

OpenStack

Core

PTL

OpenStack

PTL

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PTL

OpenStack

Murano

Solum

PTL

Freezer

PTL

Senlin

PTL

Zun

PTL

Watcher

PTL

2016

OpenStack

P/Q/R

PTL

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OpenStack

PTL

2 EasyStack

2.1 EasyStack

OpenStack

3 14

OpenStack

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EasyStack

OpenStack

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SDWAN NGFW

IT

1.3

IoT-VBox

IoT-VBox

API

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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

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	91.00%

2006

AVL SDK

863

Fortinet

Checkpoint

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

clusterrolebindings

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

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containerd

containerd

Containerd Linux Windows

containerd —

containerd <https://github.com/containerd/containerd>

1. W3C WebAuthn Web

W3C Web API WebAuthn Web

+		2019	03		
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	Cuncaoxin Education
	1.1		1.0.6

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

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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

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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