

+

2018 7

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1.6 Amazon GuardDuty AWS GovCloud	6
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	0			
	m		0
				0
		m		1
		m		1

m 0

				32
1.1	Netskope	Sift Security		32
1.2	Avast	INLOOPX		32
2.1	Ankr Network	1295		32
2.2	Fastly	4000	F	.....	32
2.3	ObserveIT	1700	B	.....	33
2.4	Openpath Security Inc	2000	B	.....	33
2.5	Xage Security	1200	A	.....	33
2.6	Siemplify	1400	B	.....	33

AWS
AWS Elemental MediaConvert
Amazon SageMake K- (kNN)
TensorFlow AWS Greengrass
C C ++ C AWS Deep
Learning AMI Amazon S3
Amazon GuardDuty AWS GovCloud VMware
Kubernetes TPU
AI
Azure
Lava
4.0 IoT
ET
EASYSTACK
SOC CCID2017
360
Fortinet Web

Google

Fortinet

CheckPoint SandBlast Mobile 3.0

Google Kubernetes Engine On-Prem

k8s

Knative

Apache

Apache Tomcat

TCFS Chrome 68

HTTP

VPNFilter

LabCorp

2

6

CASB

Netskope

Sift Security

Avast

INLOOPX

CDN()

Fastly

4000

F

Openpath Security Inc 2000

B

ObserveIT 1700

B

2018 7 30

+

AWS

1.1 AWS Elemental MediaConvert

7 2 AWS Elemental MediaConvert

API MediaConvert

AWS

AWS Elemental MediaConvert

AWS Media

Services

1.2 Amazon SageMaker

7 12 Amazon SageMaker

K- (kNN)

SageMaker

15

kNN

/

5500

S3

Amazon S3

S3

Amazon S3

S3

1.4 Amazon SageMaker

7 17

Amazon SageMaker

TensorFlow

TensorFlow

Amazon Simple

Storage Service (Amazon S3)

TensorFlow

Amazon

SageMaker

Amazon Sagemaker

78GB

87%

35%

Amazon S3

Amazon Elastic Block Store (Amazon EBS)

PB

1.5 AWS Deep Learning AMI

7 23

Ubuntu

Amazon Linux

AWS Deep Learning AMI

TensorFlow 1.9

Apache MXNet 1.2

Keras 2-MXNet

GPU (19.5 TB) TensorFlow 1.9 Keras 2-MXNet

Amazon EC2 P3 Volta V100 GPU
TensorFlow Deep Learning AMI EC2
TensorFlow TensorFlow GPU GPU AMI
Horovod Horovod
Amazon EC2 P3
Apache MXNet 1.2
Deep Learning AMI Apache MXNet 1.2
MXNet 1.2 Scala API
MXNet MXNet 1.2 Intel MKL-DNN
C5
FP16 Amazon EC2 P3 NVIDIA Volta V100
GPU Tensor MXNet 1.2 EC2 MXNet 1.2 AIO





VMware VMware Kubernetes Kubernetes

VMware Kubernetes Azure

VMware Kubernetes

Kubernetes VMware BillShelton

Kubernetes VMware Kubernetes

VMware Kubernetes Google

Kubernetes Google Kubernetes Engine Google

Kubernetes Azure AKS

GOOGLE

3.1 Digital Asset

7 24 CCN Digital Asset

Digital Asset CEO CFO Blythe Masters

Distributed Ledger

Technology

DLT

Leonard Law

DLT

Digital Asset

(Digital Asset Modeling Language DAML)

(PaaS)

Orbitera

Digital Asset

3.2

TPU

AI

7 25

NEXT

Google Cloud Next 18

Moscone

CEO Diane

Greene

keynote

- TPU TPU 3.0 alpha
- AutoML Vision Cloud Vision API
- AI
- G Suite

CEO Diane Green

Greene

AI

AI

CEO Sundar Pichai

Pichai

AI



TPU

TPU alpha

TPU

TPU eBay

API

Cloud Vision API

PDF

TIFF

DeepMind WaveNet

TPU ebay

TPU

TPU

TPU 3.0 alpha

AI Google

Google AI

Cloud AutoML Vision AutoML Natural Language AutoML

Translation

Hearst Newspapers

AutoML Natural Language

TensorFlow

Cloud Vision API

AutoML Vision Vision API

Cloud AutoML

ML

AutoML Vision

Cloud Vision API

alpha

AutoML Vision

AutoML

AutoML Natural Language

AutoML Translation

Dialogflow

11

600,000

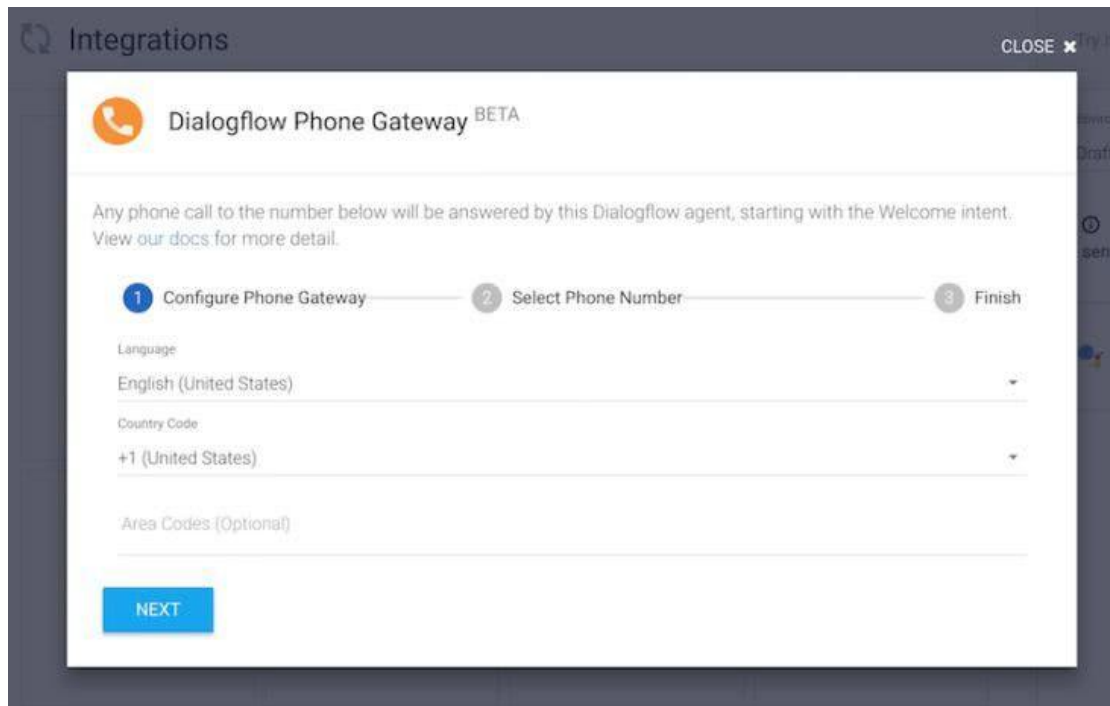
Dialogflow

Dialogflow

DeepMind

WaveNet

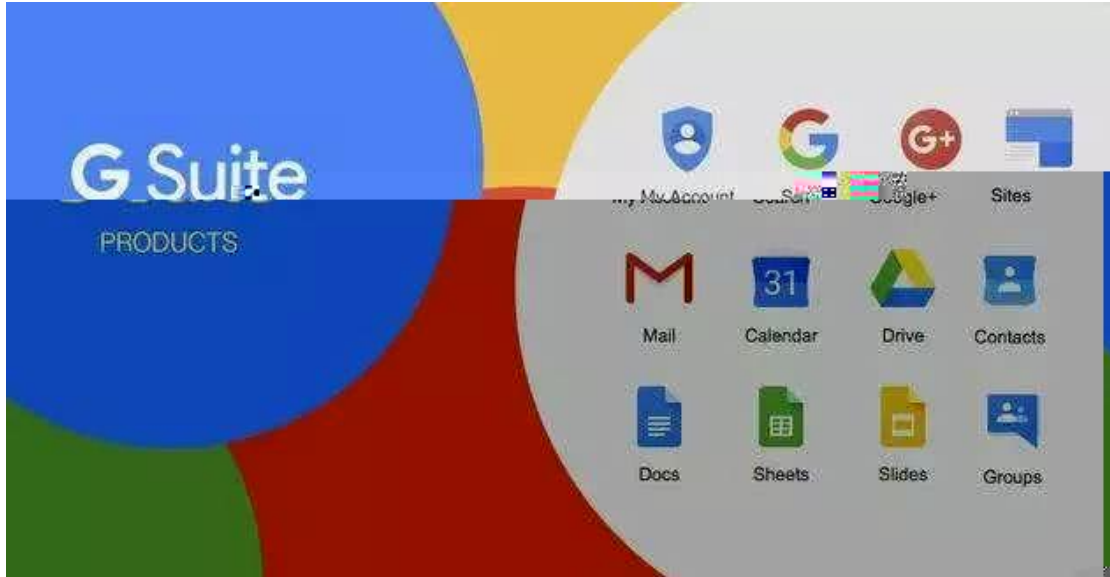
Dialogflow



Dialogflow

Contact Center AI

AI



AI

G Suite

Prabhakar Raghavan

G Suite

G Suite

-
-
- Hangout
-
- Google
- Hangout

AI

G Suite

G Suite

Azure

4.1

7 4 CCN Hot Cool

Azure

Azure

4.2

7 17

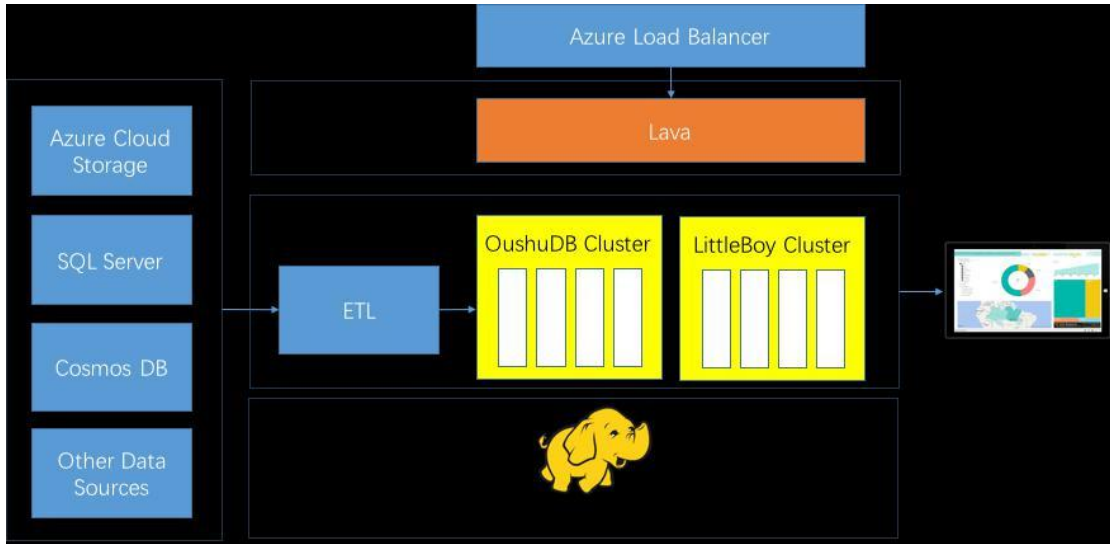
Predix Azure Microsoft Azure Azure Azure Predix
Azure Azure Azure Azure Azure
Predix Azure Azure Azure Azure
Gartner POC
POC
Predix
Microsoft Azure IT
GE Digital IIoT

4.3

Azure Lava

7 27

Azure Oushu Lava Cloud(
Lava) Lava OushuDB(
LittleBoy() HDInsight SQL Server Power BI



1

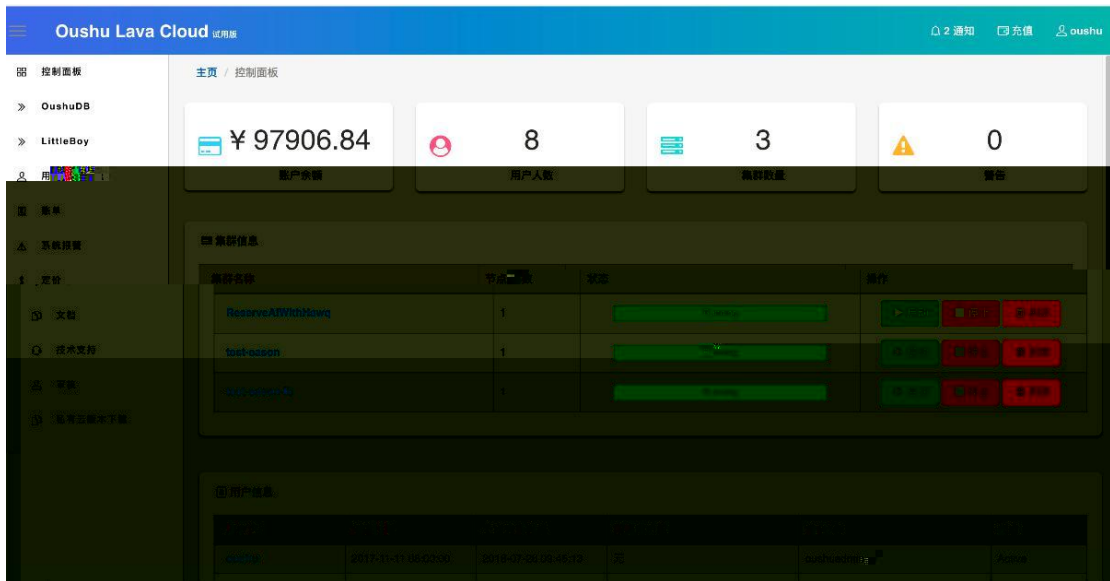
Lava

OushuDB

LittleBoy

AI

AI



2

Lava

SQL

LittleBoy

LittleBoy

5.1

7 3

2

Station F

1000

5.2

5.3

MindSphere



2019 4.0 MindSphere
 (Reuters)
 200 (230.51) 4.0
 MindSphere
 (MoU) (IoT)

5.4

IoT

7 20 IoT
~~IoT~~ IoT
 SB Cloud
 IoT

CEO

5.5 **ET**

7 24

ET

AI

EL

20

2

5.6

7 26

88%

80%

3

6.1

7 25

; VPN

6.2

7 26

+

Openstack

Easystack

2.1 EASYSTACK

7 27

EasyStack

DeepFlow® EasyStack

SDN

10

EasyStack

80%

20%

-
-
-
-
-

API

EasyStack

DeepFlow®

EasyStack ECS

+

-
-
-
-

-
- API
-

EasyStack

EasyStack

EasyStack

99CLOUD

3.1

5G

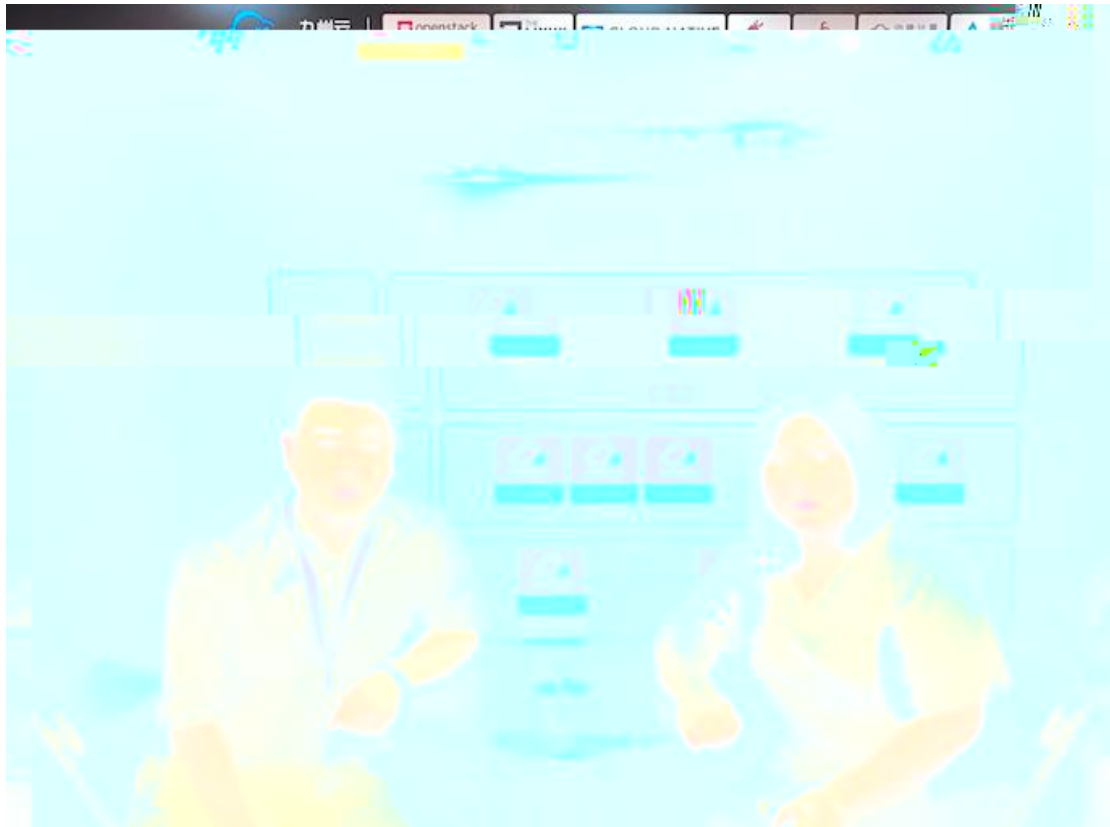
MEC

2018

CUBE-EDGE

MEC

CUBE-EDGE



1.

1.1 SOC CCID2017

2017-2018

SOC

SOC

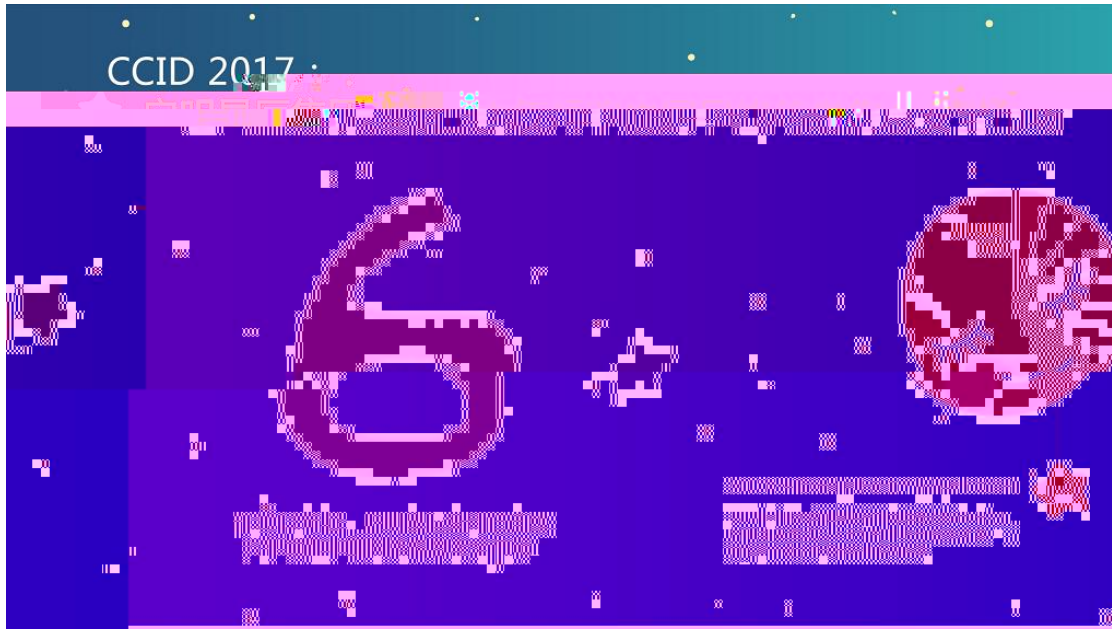
Gartner

SIEM

SOC

SOC

1.3 CCID 2017



2017	IDS/IPS	27.2	16.5%
	IDS/IPS	16	
2017	UTM	22.6	22.6%
	UTM	11	
2017		14.1	22.8%
	(SOC)	10	
2017		23.5	9.4%

2.

2.1

CEO

3.

4.

5. 360

5.1 360

7 7

360



6.

7.

8. Fortinet

8.1 FortiWeb Web

FortiWeb (WAF) 6.0 Web

WAF

- FortiWeb Web 100
-
- Fortinet Security Fabric

8.2 Fortinet Google

Fortinet Google

Fortinet

Google FortiGate

FortiManager FortiAnalyzer NOC-SOC FortiWeb Web

Fabric Connectors Google Cloud Platform

Google Cloud

8.3 Fortinet

Fortinet

- Fortinet FortiGuard Labs
- Fortinet Fortinet

IGCI

9. Checkpoint

9.1 Check Point SandBlast Mobile 3.0

CheckPoint SandBlast Mobile 3.0

-
-
-
-

1. Google Kubernetes Engine On-Prem

Google Cloud Kubernetes Engine GKE

GKE On-Prem

alpha

Next

alpha

GKE On-Prem

Kubernetes

Kubernetes

IT

Oakey

VMware

2.

k8s

Knative

- HTTP

3. Spring Cloud

Nepxion Discovery Spring Cloud
/ IP Eureka Consul Zookeeper
Spring Cloud

- Plugin Starter pom.xml
- version application.properties yaml
- metadata
- Key group
- application application.properties yaml metadata
- -
 -
 - Postman

1. VPNFilter

SBU VPNFilter

SBU

Dnipropetrovsk Aulska

VPNFilter

SBU Aulska

SBU

VPNFilter

50

NAS

2.

LabCorp

LabCorp

LabCorp

LabCorp

LabCorp

LabCorp

LabCorp

LabCorp

3. Apache

Apache Tomcat

Apache

Tomcat

DoS

ApacheTomcat

Java Servlet

Java EE

Java Servlet JavaServer Pages(JSP)

Java EL WebSocket

Java

HTTP Web

Java

Apache Tomcat

60% Apache

CVE-2018-8037

Tomcat v9.0.0.M9 v9.0.9 v8.5.5 v5.31

Tomcat v9.0.10 v8.5.32

Apache CVE-2018-1336 UTF-8

Tomcat v7.0.x v8.0.x v8.5.x v9.0.x

v9.0.7 v8.5.32 v8.0.52 v7.0.90

4.

CVE-2018-5383

CVE-2018-5383

Android

Linux

LE

BR/EDR

5.

TCFS

showcase

TCFS Thunder Chain File System

6.

10

Spectre

Vladimir

Kiriansky Carl Waldspurger

Spectre1.1 CVE-2017-5753

Spectre1.2 CVE-2018-3693

Project Zero

Spectre

CVE-2017-5753 CVE-2017-5715

Spectre1.1

CPU

BCBS Bounds Check Bypass Store

Spectre1.2

PTE

Meltdown

ARM

Spectre1.1

Oracle

Redhat

ARM AMD

Windows

chrome IOS MacOS

7. Chrome 68

HTTP

7 24

Chrome 68

Google

HTTPS

Chrome

Chrome

Google

HTTPS

1.

1.1 Netskope Sift Security

7 12 Netskope Sift Security Netskope
Cloud Access Security Broker, CASB Netskope
Sift Security

1.2 Avast INLOOPX

7 25 Avast INLOOPX Avast
4 Avast Avast AVG
INLOOPX android Ernst&Young
DNA CE 50 (2017 6)

2.

2.1 Ankr Network 1295

7 1 Ankr Network Link VC 5 1295
Ankr (DCC)
Ankr

2.2 Fastly 4000 F

7 17 Fastly Deutsche Telekom Capital Partners 2 4000
F Fastly CDN(
) CDN()
Fastly

2.3 ObserveIT 1700 B

7 17 ObserveIT Bain Capital Ventures 2 1700
B ObserveIT ObserveIT

2.4 Openpath Security Inc 2000 B

7 17 Openpath Security Inc Bonfire Ventures 5 2000
B Openpath
Openpath Access

Openpath

2.5 Xage Security 1200 A

7 22 Xage Security City Light Capital 3 1200
A Xage Security

2.6 Siemplify 1400 B

7 24 Siemplify 83North 2 1400 B
Siemplify