

+

2018 6

1

AWS Amazon Elastic Container Service for Kubernetes
Kubernetes AWS WAF
Amazon RDS for Oracle CPU
Amazon ECS CLI Docker Compose 3 Amazon API Gateway
API ElastiCache for Redis Redis 4.0 VMWare
AI
15 Azure
Azure Stack Azure
Stack AI Bonsai Azure
Cloud Foundry
mini ET IPv6
O2O
EI
Openstack
OS OpenInfra Days China EasyStack

2018 OpenInfra Days China

5116541XE

1T

X10800

GDPR

360

SaaS

BitUN

Fortinet

Bradford

Networks

Helm

Kubernetes

Visual

Studio Kubernetes

Docker Hub

500

Kubernetes 1.11

CoreDNS

Google

Chrome

NX-OS

OpenBSD

Intel CPU

6 7

	ConterTack		GoSecure	
	Zimperium			
Mi3 Security		F-Secure		
	MWR InfoSecurity			
			CrowdStrike	2
E			Claroty	6000 B
Agari	4000	E		

2018 6 30

+

AWS

1.1 Amazon Elastic Container Service for Kubernetes

6 5 Amazon Elastic Container Service for Kubernetes (Amazon EKS)

AWS Kubernetes Kubernetes

Amazon EKS Kubernetes AWS
 Amazon EKS AWS Kubernetes
 Amazon EKS Kubernetes Kubernetes
 Kubernetes
 Amazon EKS

1.2 AWS WAF

6 5 AWS WAF

Web API (a) (b)

CIDR

AWS WAF

URI

-

WAF

URL [https:// example.com/page?name1=value1&name2=value2](https://example.com/page?name1=value1&name2=value2)

		+		2018		6	
		IPv4		/16		/32	
						CIDR	
				AWS WAF		IP	
						IPv4	
		/8		/16		/24	
						AWS WAF	
						CIDR	
10.21.3.44/31		10.21.3.40/29		10.21.3.45/17		IP	
						IP	
				10000		CIDR	
						AWS WAF	
		IPv6 CIDR		/128		/64	
						/56	
						/48	
						/32	
						/24	
1.3		Amazon ECS CLI		Docker Compose		3	
6		7		Amazon Elastic Container Service		(Amazon ECS CLI)	
Docker Compose		3		Docker		Amazon ECS	
		Docker Compose				Amazon ECS CLI	
		Amazon ECS					
Amazon ECS						Amazon ECS	
CLI		Docker Compose v3				Docker Compose	
Docker Compose v2						Docker Compose v1	
v2		v3		Amazon ECS CLI			
1.4		Amazon API Gateway		API			
6		14		Amazon API Gateway		API	
						VPC	
		Amazon Virtual Private Cloud (VPC)				API	
		API		API		Internet	
						Amazon VPC	
		API		REST API		VPC	
		AWS Direct Connect					
Amazon VPC		VPC					
1.5		Amazon ElastiCache for Redis		Redis 4.0			
6		14		Amazon ElastiCache for Redis		Redis 4.0.10	
						Redis 4.0	
						LRU	
		Redis 4.0				LFU	

LFU

- - Redis 4.0 MEMORY
Redis MEMORY DOCTOR
MEMORY USAGE
MEMORY MALLOC-STATS MEMORY

PURGE MEMORY STATS

- - Redis 4.0

- Redis 4.0 DEL FLUSHDB FLUSHALL

Redis 4.0.10 ElastiCache for Redis

1.6 Amazon RDS for Oracle CPU

6	18	Amazon Relational Database Service (RDS) for Oracle							
CPU								Oracle	
								Intel	
		RDS Oracle		CPU					Amazon EC2
CPU			X1	X1e					
		Oracle				I/O		CPU	
			vCPU			X1e.8xlarge		32	
vCPU			4	8	12	16	20	24	28
								32	vCPU
			CPU						
		(BYOL)						vCPU	
		RDS Oracle						Intel HT	
CPU									BYOL



VMware

GOOGLE

3.1

AI

6 4

Maven

Diane Greene

2019

AI

Maven

Maven

9

Maven

IBM

3.2

15

6 15

15

1.89

2013

2016

1.35

YouTube

F bio Coelho

3300

Google.org Instituto Rede Mulher Empreendedora

81

13.5

Google tools

Coelho

1

2

30 99

Azure

4.1 Azure Stack

6 6

Azure Stack

Lenovo ThinkAgile SX for Microsoft

Azure Stack

CTO

CMO



Gartner 2020

	+	2018	6	
90%				Azure
Stack		4	3	

FDM

CPU PCIe

4.3 AI Bonsai Azure

6 21 GitHub

Bonsai Bonsai

Bonsai

Deep Reinforcement Learning Bonsai GPU Brainware

Azure Brainware Azure

, ,

5.1 Cloud Foundry

2018 6 6 Cloud Foundry

Foundation Cloud Foundry

Cloud Foundry Foundation

Cloud Foundry Cloud Foundry

BOSH Cloud Provider Interface CPI

Cloud Foundry Application Runtime CFAR Cloud Foundry Container Runtime CFCR

CFCR Cloud Foundry Foundation Kubernetes BOSH

Cloud Foundry

Cloud Foundry Application Runtime 43

Cloud Foundry Foundation The Foundry

Cloud Foundry

Cloud Foundry

5.2

6 7

IoT

5.3

mini

6 7

115

45

100PB

3M 100PB

360

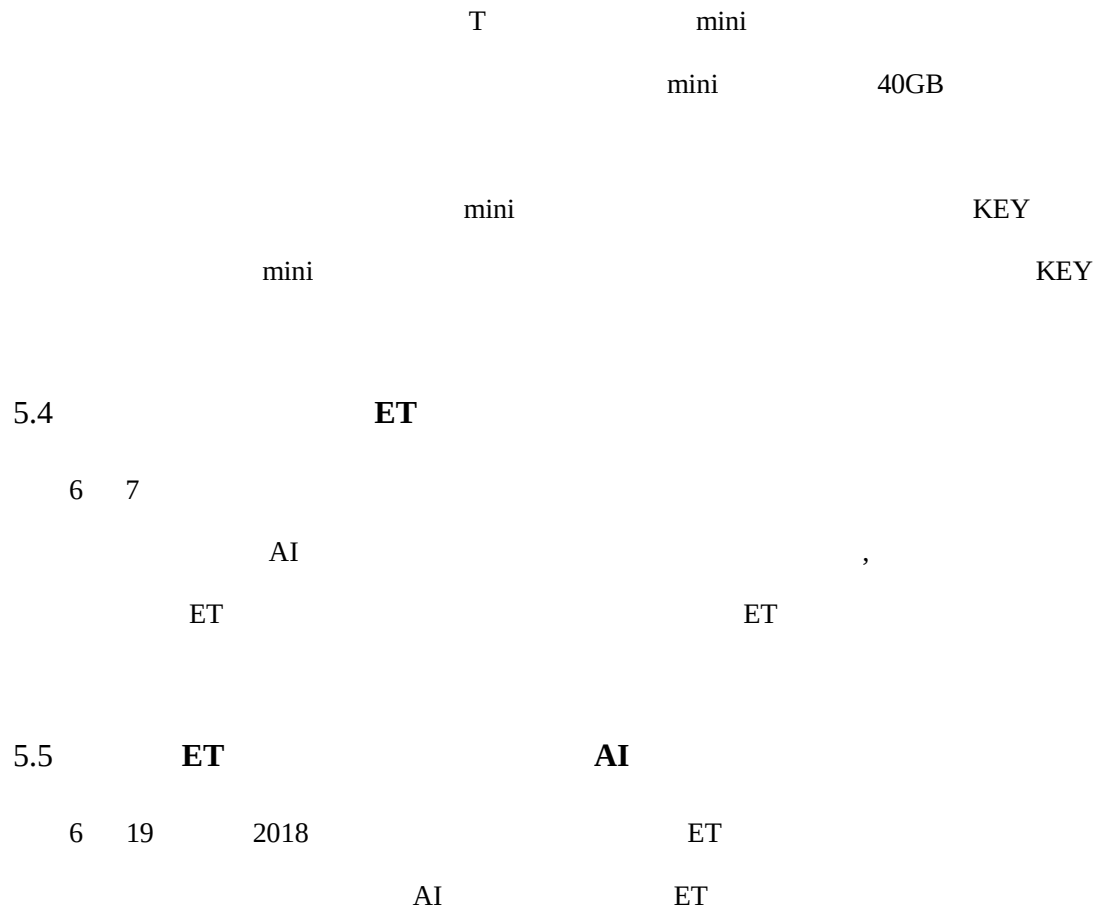
115

2TB

2

16.65Gb/s





AI

ET

ET

ET

AI

5.6

IPv6

6 20

IPv6

IPv6

IPv6 - -

IPv6

IPv6

5.7

6 21

5.8

6 26

80%

6 80%

10% 2015 +

6.1 O2O

6 4 () O2O
2018 3 9 ()

O2O (H5 APP(IOS/Android))

O2O

APP

6.2

6 19

12.66

7.1 EI

ICT 6 26

AI 2018

EI

EI

AI

AI

Openstack

1.1 Openstack

6 20 --

openstack P docker

Aneka

1.2 OS OpenInfra Days China

6 21 InCloud OpenStack InCloud K8S InCloud

Sphere



OpenStack

OS

Region

InCloud OpenStack

InCloud Sphere

SDS

SDN

1 Easystack

2.1 EasyStack

OpenInfra

EasyStack

Demo

OpenStack

EasyStack

OpenStack

1.

1.1



IT ICT DICT

2.

2.1 1T X10800

2018 5 31 - AI

1T X10800

AI C2 IP

2U

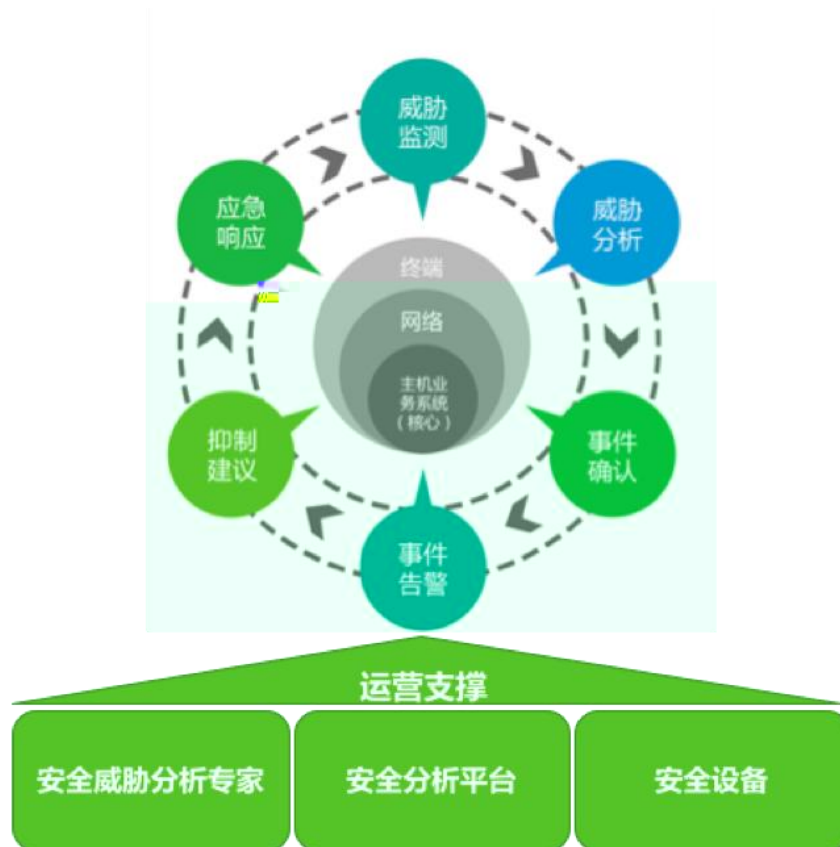
8 AI



3.

MDR

1



5. 360

5.1 360

6 6 360

-

360

5.2 360

360

6.

6.1 SaaS

UI



6.2

BitUN

6 26

BitUN

BitUN

BitUN

BitUN

BitUN

BitUN

BitUN

BitUN

OWASP Top 10

bug

BitUN

BitUN

7.

8. Fortinet

8.1 Fortinet

Bradford Networks

Fotint

Bradford Networks

Fortinet Security

Fabric

IoT

9. Checkpoint

1. Helm Kubernetes

Helm helm
k8s
k8s helm CNCF CNCF

2. Visual Studio Kubernetes

Visual Studio Kubernetes
Kubernetes .NET Kubernetes
Kubernetes
Kubernetes Visual Studio Kubernetes
Visual Studio Kubernetes
Kubernetes
.NET Kubernetes Visual Studio
Dockerfile Helm chart Azure Dev Space
Azure Kubernetes

3. Docker Hub 500

6 14 Fortinet Kromtech 17 Docker
500
Web
Docker Hub

4. Kubernetes 1.11

CoreDNS

Kubernetes

Kubernetes

beta

SIG-API Machinery

SIG-Node

Kubernetes

IPVS

CoreDNS

DNS

5.

cookie

WWDC 2018

iOS

macOS

Facebook

GDPR

cookie

cookie

macOS

Mojave

iOS 12

WWDC

Google IO

Android

Google Photos

Bixby

Siri Shortcuts

6. Google

Chrome

Google

Chrome

Chrome

Chrome

Chrome

7.

6 7

PC

8. NX-OS 5

30 5

NX-OS NX-API FXOS NX-OS

root

DoS

Cisco

Nexus 4000 3000 9000

9. OpenBSD Intel CPU

BUG

OpenBSD

Intel

CPU

(HT)

(SMT)

CPU

OpenBSD

Mark Kettenis

CPU

1.

1.1 Fortinet Bradford Networks

6 4 Fortinet Bradford Networks Fortinet
Bradford Networks

1.2 ConterTack GoSecure

6 6 ConterTack GoSecure ConterTack
(ETP)
GoSecure

1.3 Zimperium Mi3 Security

6 13 Zimperium Mi3 Security Zimperium

APP Android Network Toolkit Mi3 Security

1.4 F-Secure MWR InfoSecurity

6 18 F-Secure MWR InfoSecurity 8000
1988 F-Secure MWR
InfoSecurity

2.

2.1 OneLogin 2250 C

6 5 OneLogin 2250 C OneLogin
OneLogin

2.2 Claroty 6000 B

6 11 Claroty Aster 9 6000 B Claroty

2.3 Gospel Technology 140

6 18 Gospel Technolog LocalGlobe 140 Gospel
Technolog

2.4 CrowdStrike 2 E

6 19 CrowdStrike Accel 4 2 E
CrowdStrike McAfee CTO George Kurtz
Dimitri Alperovitch 2011 Irvine Falcon

2.5 Liongard 125

6 20 Liongard 125 Liongard Roar MSP
Roar

AWS Microsoft Office 365 Active Directory SQL internet
DNS Recon SSL Cisco Meraki

2.6 Cylance 1200 E

6 20 Cylance Blackstone Tactical Opportunities 1200 E
Cylance

