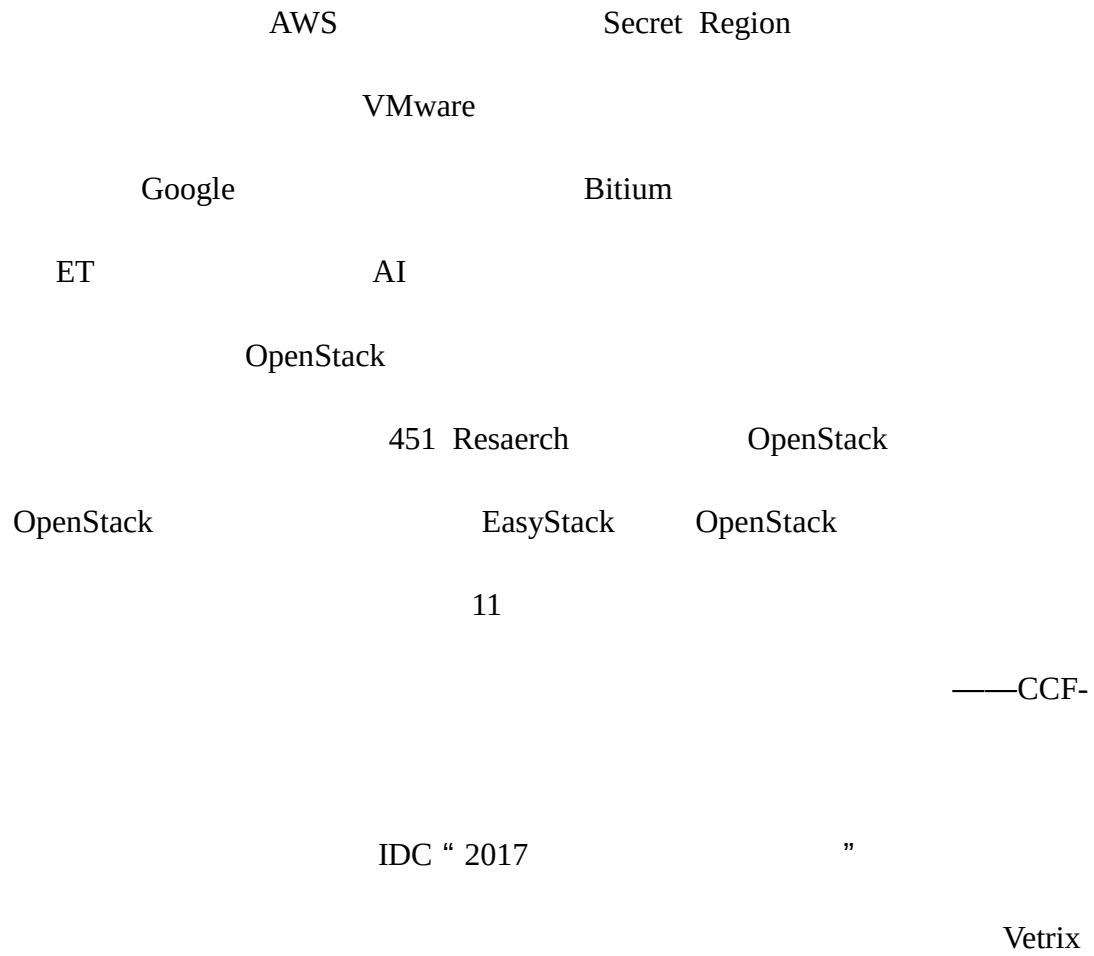




2017

“ ”

WEB

360

MSP

Fortinet

AWS

Fortinet

NEC

VM

LightVM

CNCF

Kubernetes

IBM

+

1.	AWS		
1.1	AWS		1
1.2	AWS	“ Secret Region ”	1
1.3	AWS		2
2.	VMware		
2.1	VMware	VeloCloud Networks	2
2.2	VMware		2
3.	GOOGLE		
3.1	Google	2018	3
3.2		GPU 36%	3
3.3		Bitium	4
3.4	Salesforce	Google	4
4.	Azure		
4.1	Dynatrace	Azure	4
4.2	VMware	Azure	4
4.3	Azure IoT Edge	AI	5
4.4		Apache Spark Azure Databricks	5
4.5	Azure		5
4.6		6 Azure	6
4.7		Azure Stack	6
5.			
5.1		Kubernetes	6
5.2	CDN	25%	7
5.3			7
5.4	Link	50%	7
5.5			7
5.6	ET	AI	8
5.7	FIFA	6	8
5.8		“ ”	8
5.9		“ ” “ ”	9
6.			
6.1			9
6.2		SUPERMIND	10
6.3			10

	+	2017	11	
6.4		CNCF K8S	.....	11
6.5			.....	11
6.6			.....	11
6.7			+	12
7.				
7.1		OpenStack	.....	13
7.2	“	” 10	.....	14
1.	Openstack			
1.1	OPENSTACK		.....	14
1.2		OpenStack	.....	15
1.3	OPENSTACK		.....	15
2.	Easystack			
2.1	EasyStack	OpenStack	.....	15
1.				
1.1			.....	16
1.2			.....	16
1.3	2017		.....	17
1.4			.....	17
2.				
3.				
3.1		2017	.....	18
3.2		MSP	.....	18
3.3		2017	.....	19
4.				
4.1			.....	19
4.2	“	- ”	.....	20
4.3		Web SB	.....	21
5.	360			
5.1		360	.....	21
6.				
6.1		“ ”	.....	21
6.2			.....	22
7.				
7.1			.....	22
7.2			.....	22
8.	Fortinet			
8.1	Fortinet	Amazon Web	.....	23

8.2		Fortinet	.....	23
9.	Checkpoint			
1.	NEC	VM	LightVM	
2.	CNCF	Kubernetes		
3.		IT	IBM	
4.		Kubernetes		
5.	Mesosphere	DC/OS	Azure	
6.	IDC PaaS	SaaS	IaaS	

AWS		Region			
		Unclassified	Sensitive	Secret	Top
Secret	4	Secret			
		“ ”			

1.3	AWS			
	AWS		Gluon	
■	Gluon		Python	
	API			
■	Gluon			
■	Gluon			

2. VMware

2.1 VMware		VeloCloud Networks		
11	7	VMware	VeloCloud Networks, Inc.	VeloCloud
Networks, Inc.		SD-WAN		
VeloCloud		VMware	VMware NSX	
VMware				

2.2	VMware				
		vFORUM 2017	VMware	InCloud	
Rail		10	IO	60%	InCloud Rail 1010

InCloud Rail 1020 2 4

InCloud Rail

	TCO		InCloud
Rail	60%	30000IOPS	50000IOPS I/O
5		IOPS	



3. GOOGLE

3.1 Google 2018

6

3.2 GPU 36%

Nvidia Tesla GPU 36

K80 GPU 0.45

P100 1.46

3.3 Bitium

Bitium Bitium
Google
Cloud G Suite
Bitium 2012
Google Apps Office 365 CRM

3.4 Salesforce Google

Salesforce
G Suite
Salesforce AWS
Salesforce Google Google G Suite Salesforce
Salesforce

4. Azure

4.1 Dynatrace Azure

Dynatrace Microsoft Azure Azure
Web
Azure Dynatrace
Dynatrace Azure
Dynatrace
Dynatrace Azure Azure
.NET Core

4.2 VMware Azure

Azure Migrate Azure Migrate
VMware

VMware

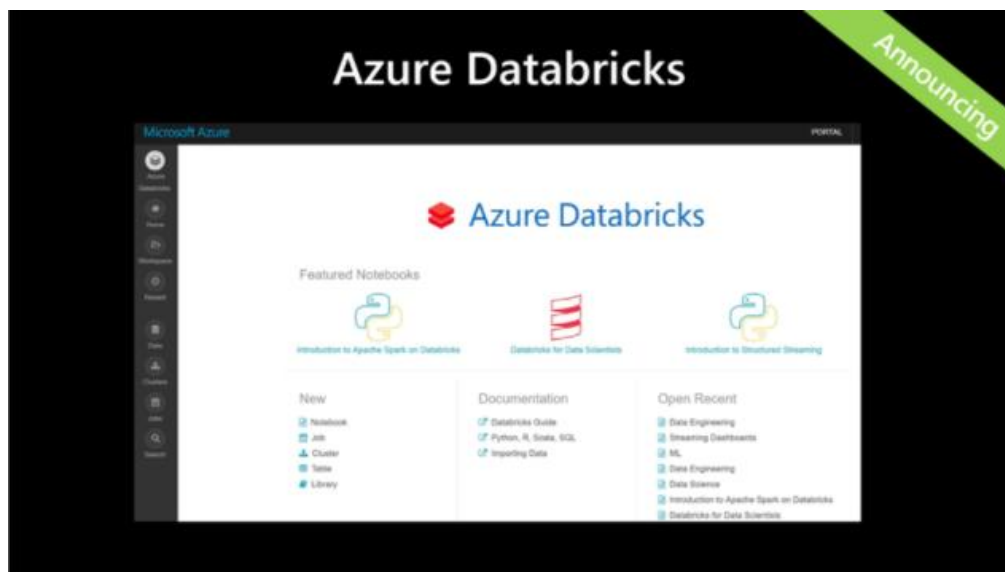
4.3 **Azure IoT Edge** **AI**

Azure IoTEdge

Azure IoT Edge IoT IoT

4.4 **Apache Spark** **Azure Databricks**

11 15 Scott Guthrie



Azure Databricks Apache Spark Azure Databricks

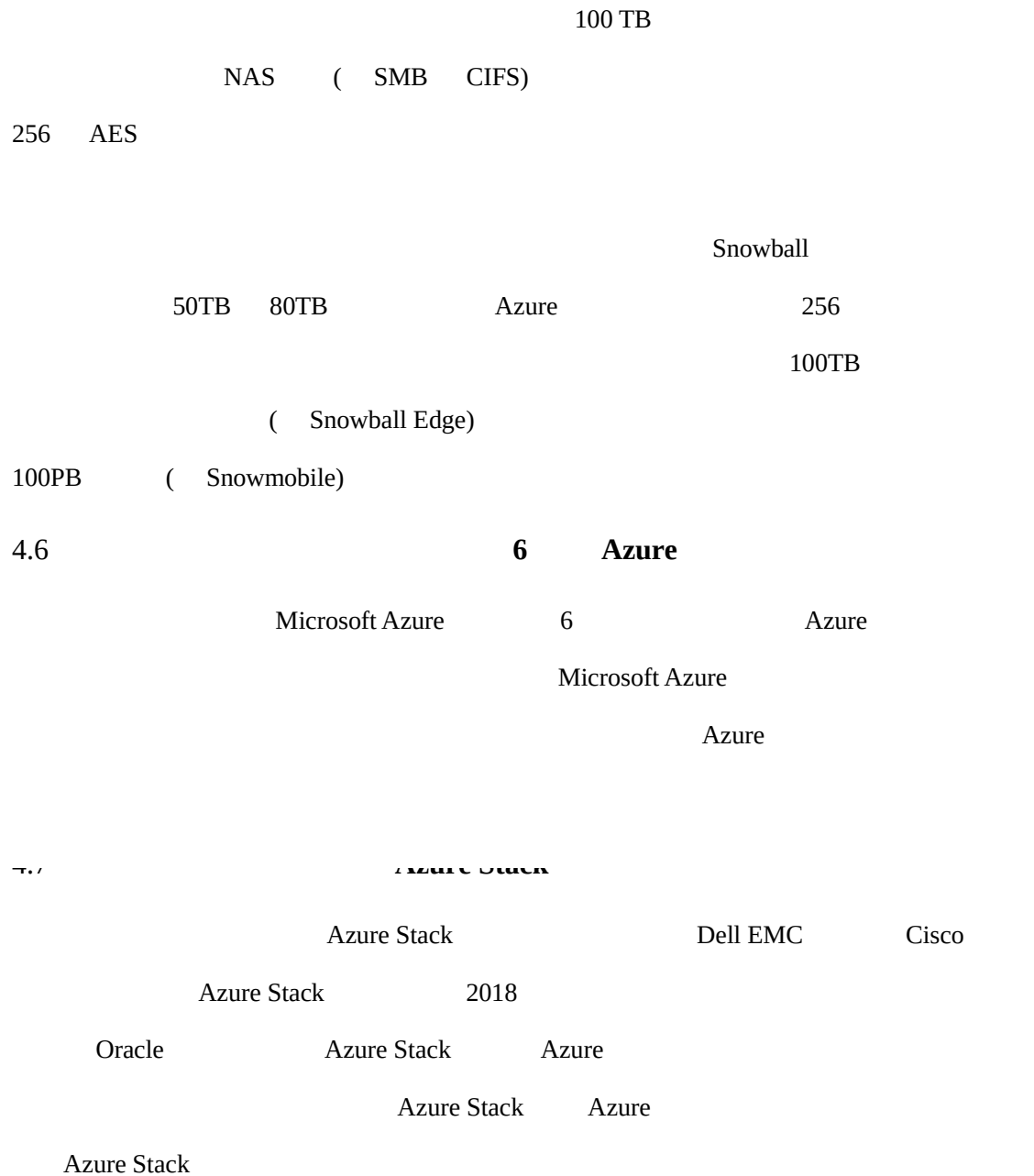
Apache Spark

Azure SQL Azure Azure Cosmos DB Azure Active

Directory Power BI

4.5 **Azure**

Ignite Azure



Kubernetes Prometheus containerd

Kubernetes

CNCF

CNCF

Kubernetes

Cisco Docker

IBM

Kubernetes

5.2

CDN**25%**

CDN

25%

16.2 /Mbps/

5.3

ET

10

5.4

Link**50%**

Link

11

11

50%

2017

Link

10

Link

1000

Link

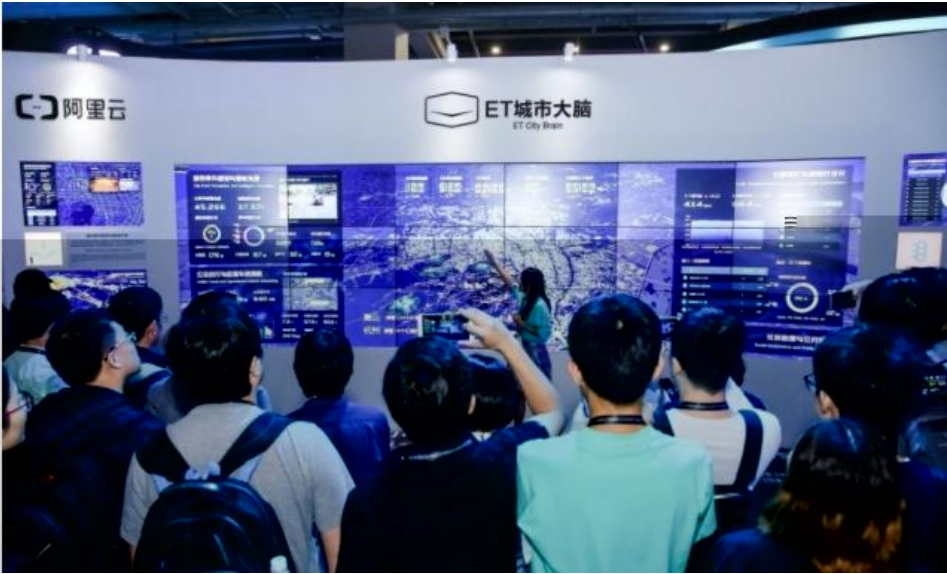
1000

5.5

5.6 ET AI

11 15

ET



ET 128

15.3% 4.6

500 92% 120

ET

5.7 FIFA 6

FIFA “

” FIFA 2022

5.8 “ ”



IT

IT

IT

5.9

“ ” “ ”

“ ”

“ ”

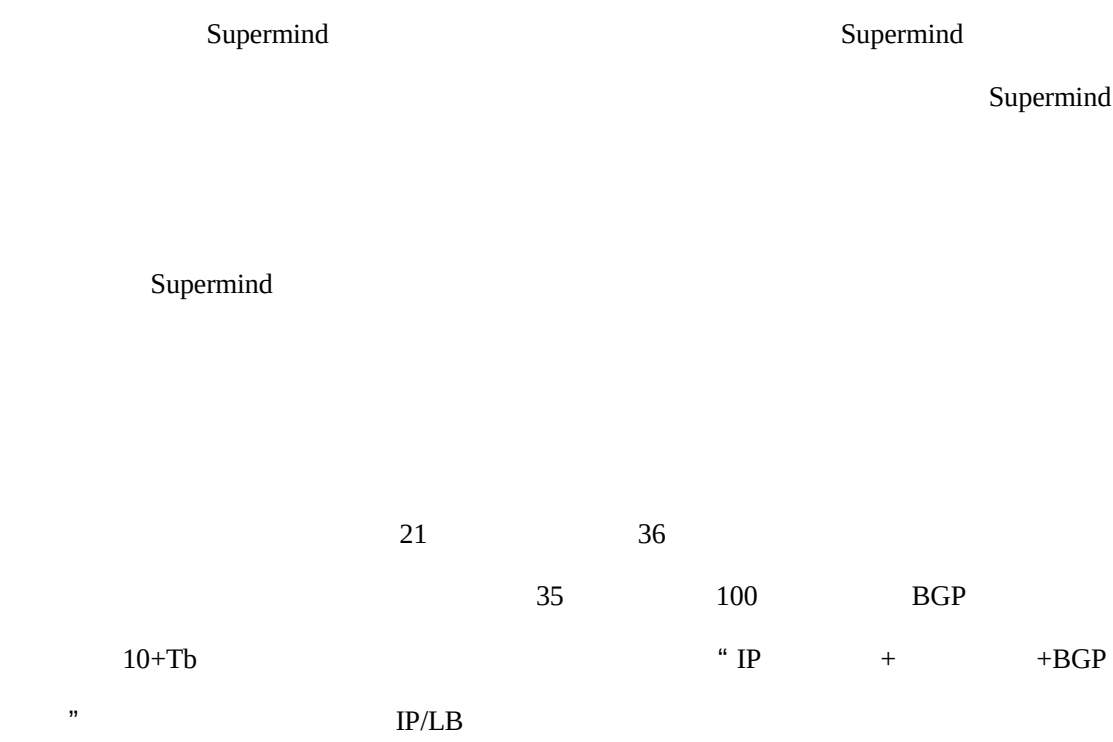
“ ”

6.

6.1

IaaS

6.2 SUPERMIND



6.3



AI

()

6.4

CNCF K8S

CNCF(Cloud Native Computing Foundation)

Certified Kubernetes

Conformance Program

32 Kubernetes

CCS(Cloud Container Service)

6.5

2017

“ ”

“ ”

SaaS

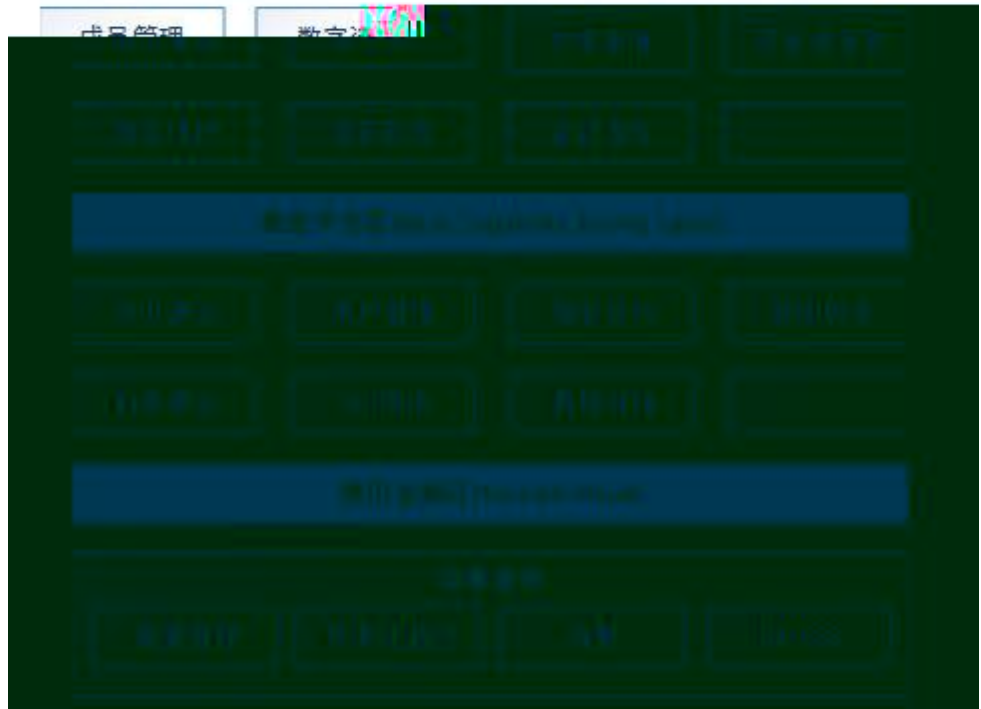
“ ”

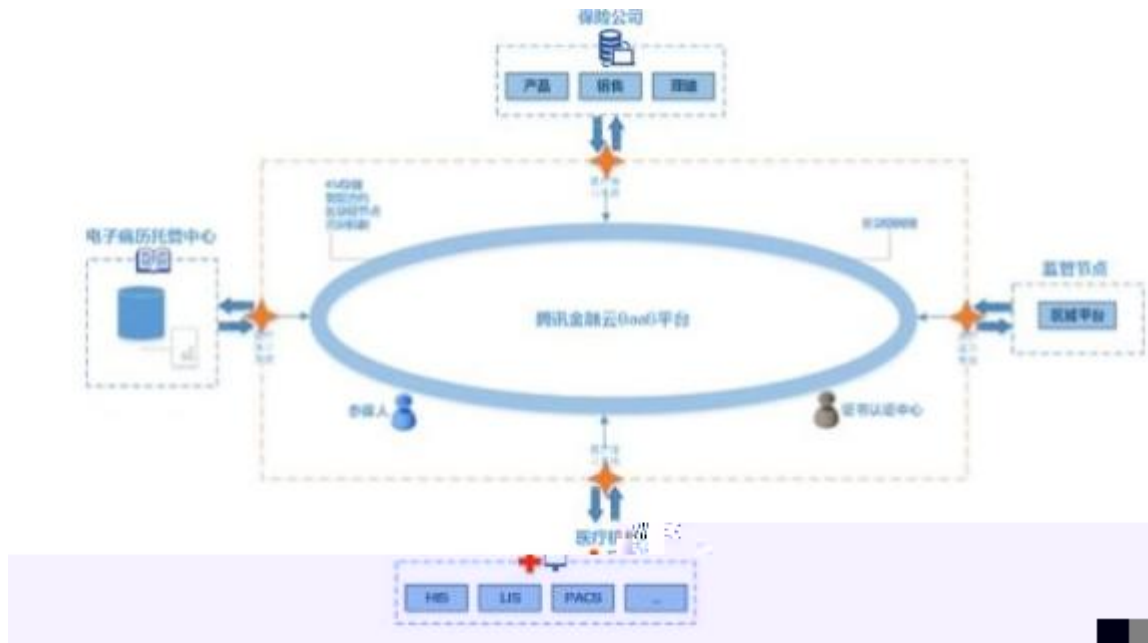
6.6

2017

BaaS

Blockchain as a Service





7.

7.1

OpenStack

2017 OpenStack

OpenStack

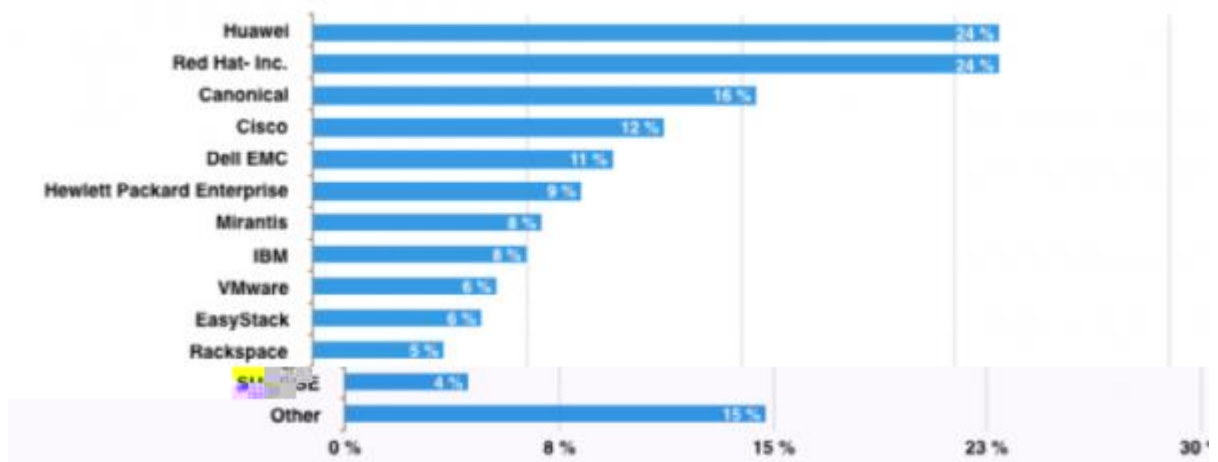
OpenStack

OpenStack

OpenStack

FusionSphere

Which vendor's products power your OpenStack cloud?

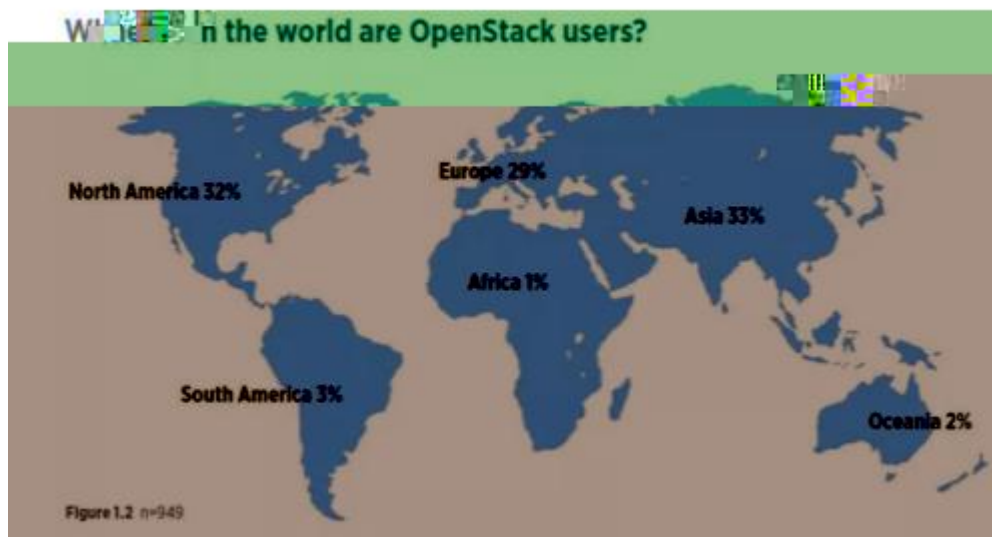


OpenStack EasyStack
 Red Hat Canonical Cisco Dell Hewlett Packard Enterprise Mirantis
 IBM VMware EasyStack Rackspace SUSE
 7.2 “ ” 10
 " " 10 AR/VR

1. Openstack

1.1 OPENSTACK

OpenStack 1052
 OpenStack 2016 95% 2017 1000
 OpenStack OpenStack



OpenStack OpenStack 3 2016 50%
 China UnionPay China Mobile
 China Telecom China Railway Corporation SINOPEC

the State Grid Corporation of China

1.2 OpenStack

451 Research 2021 OpenStack 25

67 2016 2021 30

Openstack

OpenStack IaaS 451

Research OpenStack

OpenStack

OpenStack 2018 OpenStack

“ ”

451 Research OpenStack /

OpenStack OpenStack

OpenStack

1.3 OPENSTACK

OpenStack

OpenStack OpenStack

NVIDIA NVIDIA OpenStack

OpenStack

I/O OpenStack

2. Easystack

2.1 EasyStack OpenStack

Gartner 2017 OpenStack Competitive

Landscape: OpenStack Distributions and Support Services Market, 2017 Gartner

	+	2017	11					
2017 OpenStack				OpenStack				8
OpenStack			8					Canonical
EasyStack		HuaWei		Mirantis	Oracle	Red Hat	SUSE	VMware

1.

1.1

“ 2017 ”

2005 M2S
SaaS 1000+

2000 100+ “ ”

1.2

400

500

Vetrix

SDS

VTAP

2.

3.

3.1

2017

2017

“

”

WannaCry

100

URL

3.2

MSP

MSP

Managed Service Provider

+

2017

11

MSP

WFBSS

IT

3.3

2017

2017

+

+

Deep Security

4.

4.1

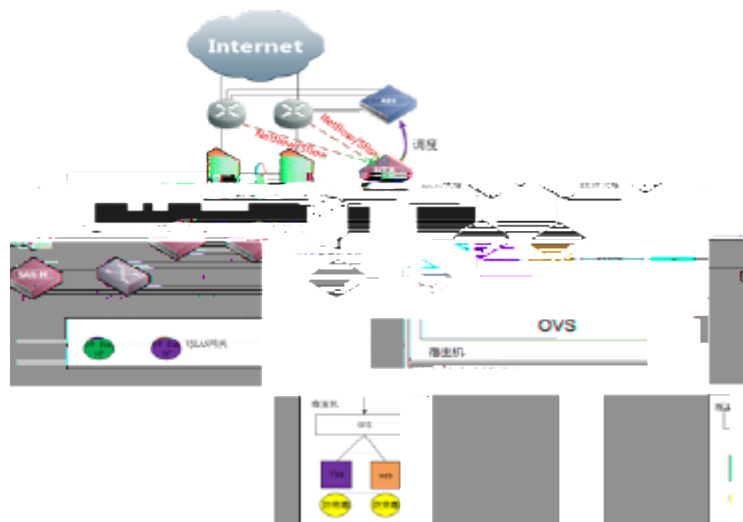
IP

Web



4.2 “ - ”

“ - ”



4.3

Web**SB**

Web

SB

NSFOCUS WAF

●

Web

4 – 7

NSFOCUS WAF

●

DDoS

1 Gbps

TCP flood

HTTP/S GET/POST flood

NSFOCUS WAF

NSFOCUS

DDoS

DDoS

●

PCI DSS

PCI

PCI-DSS 3.2

SB

SoftBank Group Corp

Alibaba Group

5. 360

5.1

360

360

"

"

6.

6.1

“

”

6.2

WAF

Db

IP 300G DDOS

CC +

+7*24 Ailpha

7.

7.1

“ ” “

”

7.2

2015

➤

➤

➤

➤

8. Fortinet

8.1 Fortinet

Amazon Web

Fortinet

Amazon Web Services(AWS)

Fortinet

AWS

(APN)

AWS

Fortinet AWS

AWS

Fortinet

“

”

AWS

Fortinet

AWS

8.2

Fortinet

Fortinet

11

Fortinet

|

]

1. NEC

VM

LightVM

		Xen			
	unikernel	Linux			
LightVM		unikernel	4ms		Linux
	fork/exec	1ms	Docker		150ms
MEC		ClickOSunikernel	8000	64	AMD
	10ms		LightVM		cell
			JITSU	CDN	TLS
		AWS Lambda			
Micropython	unikernel	Python			
1.3ms					
	800				

Kubernetes IBM
Kubernetes Docker
Kubernetes PaaS IBM Cloud Private
Elasticsearch Kibana Grafana

4. Kubernetes

Kubernetes 15
Kubernetes
Kubernetes
Kubernetes 5 5
AI
Kubernetes
PaaS

5. Mesosphere DC/OS Azure

Docker Docker
Mesosphere DC/OS
Azure Azure Mesosphere DC/OS
DC/OS

6. IDC PaaS SaaS IaaS

IDC PaaS
2017 632 28%
SaaS 68.7% 434
SaaS
22.9%

Worldwide Public Cloud Services Revenue, Market Share, and Year-Over-Year Growth, 1H17 (revenues in US\$ millions)

Segment	1H17 Revenue	1H17 Market Share	1H16 Revenue	1H16 Market Share	Year-over-Year Growth
IaaS	\$11,236	17.8%	\$8,138	16.6%	38.1%
PaaS	\$8,567	13.6%	\$5,702	11.6%	50.2%
SaaS	\$43,400	68.7%	\$35,310	71.8%	22.9%
Total	\$63,260	100%	\$49,179	100%	28.6%

Source: IDC Worldwide Semiannual Public Cloud Services Tracker, 1H17

PaaS

Docker

Cloud

Foundry

67%

540

25%

1. Windows 10

11

Windows10

Win10

6

TPM

RAM

2. Tick

“ Tick ”

Tick

Bronze Butler

REDBALDKNIGHT

Gofarer

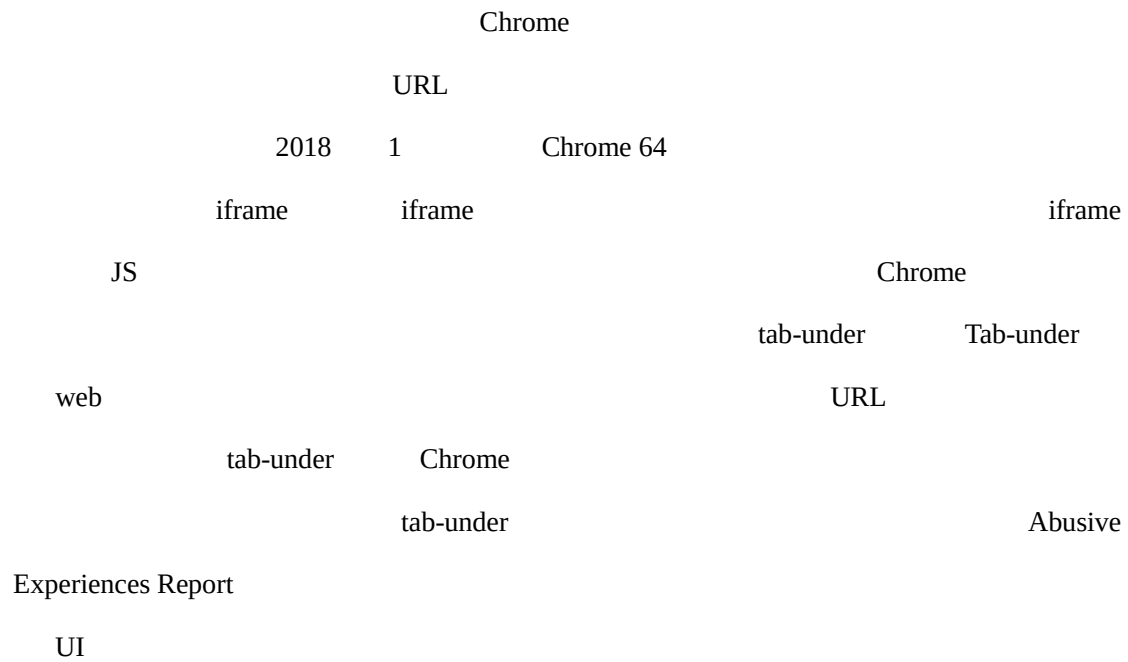
Daserf

shell

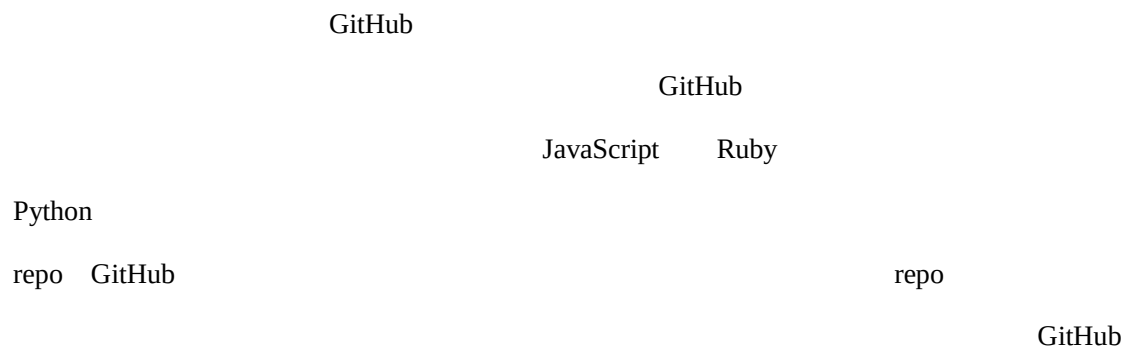
Daserf

Daserf

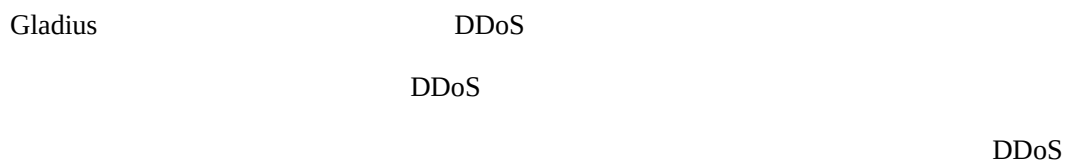
3. Chrome



4. GitHub



5. Gladius



2.

2.1 NeuVector 700 A

11 7 NeuVector HWVP Hummer Winblad Venture Partners NewGen Capital
 700 A NeuVector 7
 NeuVector

2.2 Treasury Intelligence Solutions 1200 C

11 9 Treasury Intelligence Solutions 83North 2 1200
 C Treasury Intelligence Solutions (TIS)

2.3 ThreatQuotient 3000 C

11 13 ThreatQuotient Adams Street Partners 4 3000
 C ThreatQuotient ThreatQ ThreatQuotient
 \$ 1 2 ,