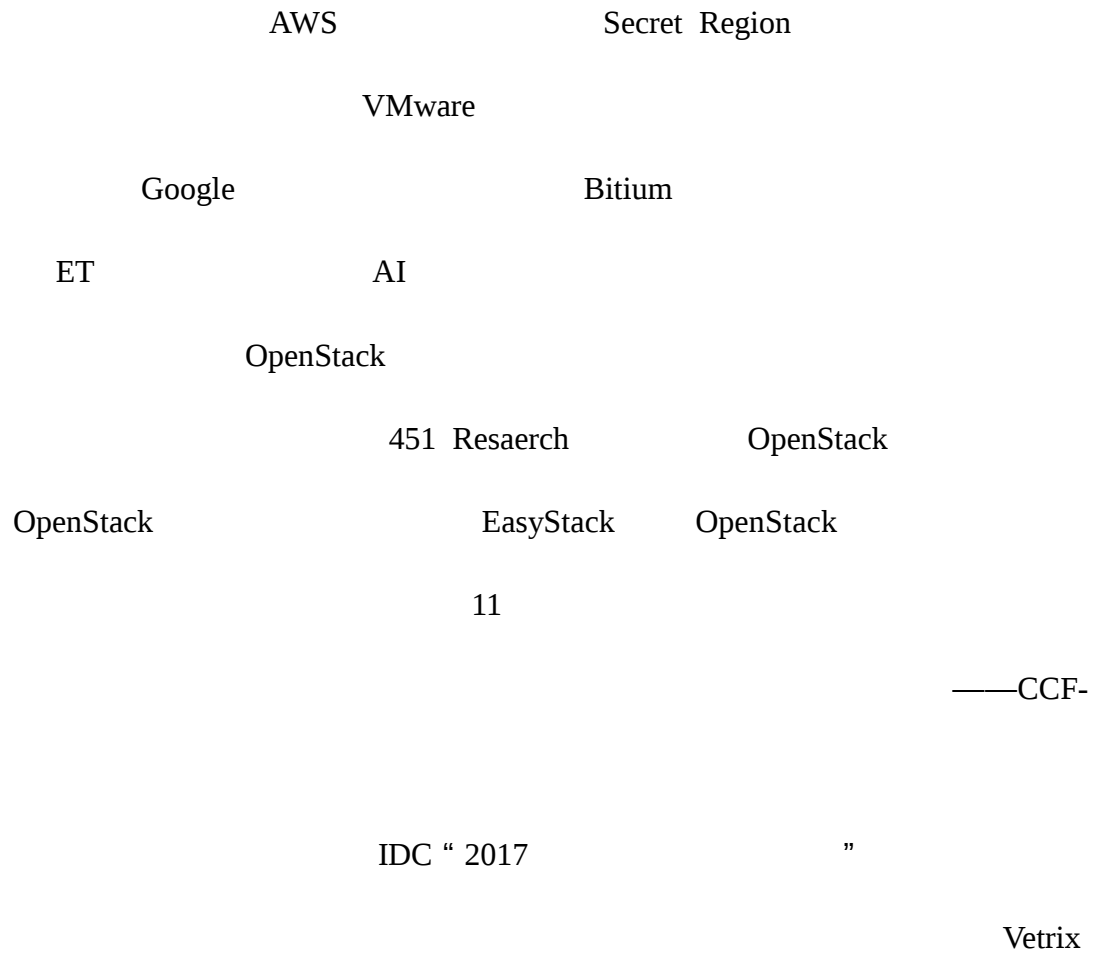




2017

“ ”

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
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6.6			11
6.7		+	12
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7.1		OpenStack	13
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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
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4.			
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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

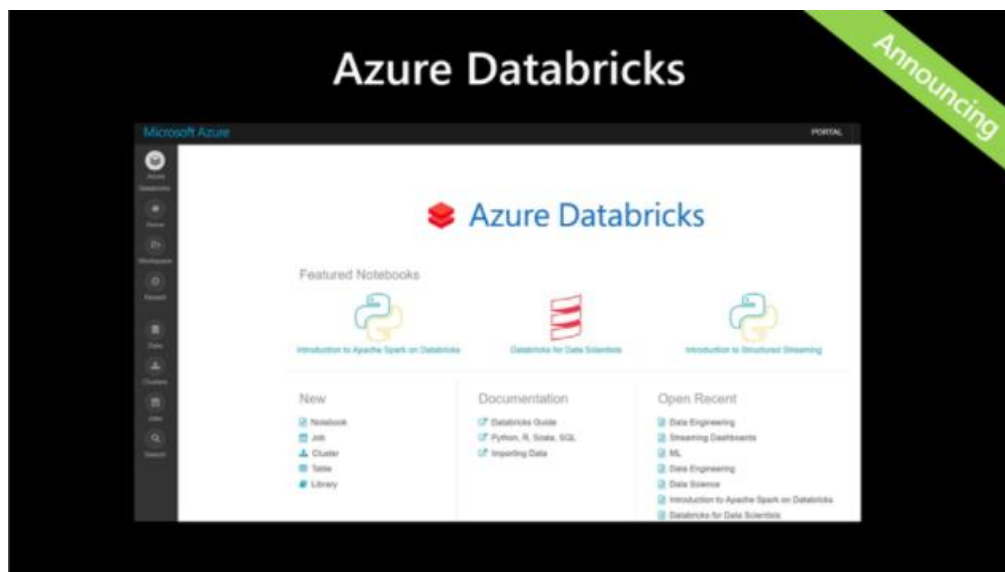
4.3 **Azure IoT Edge** **AI**

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

100 TB

NAS (SMB CIFS)

256 AES

Snowball

50TB 80TB

Azure

256

100TB

(Snowball Edge)

100PB (Snowmobile)

4.6

6 Azure

Microsoft Azure

6

Azure

Microsoft Azure

Azure

4.7

Azure Stack

Azure Stack

Dell EMC

Cisco

Azure Stack

2018

Oracle

Azure Stack

Azure

Azure Stack

Azure

Azure Stack

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

Supermind

Supermind

Supermind

Supermind

21

36

35

100

BGP

10+Tb

“ IP

+

+BGP

”

IP/LB

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

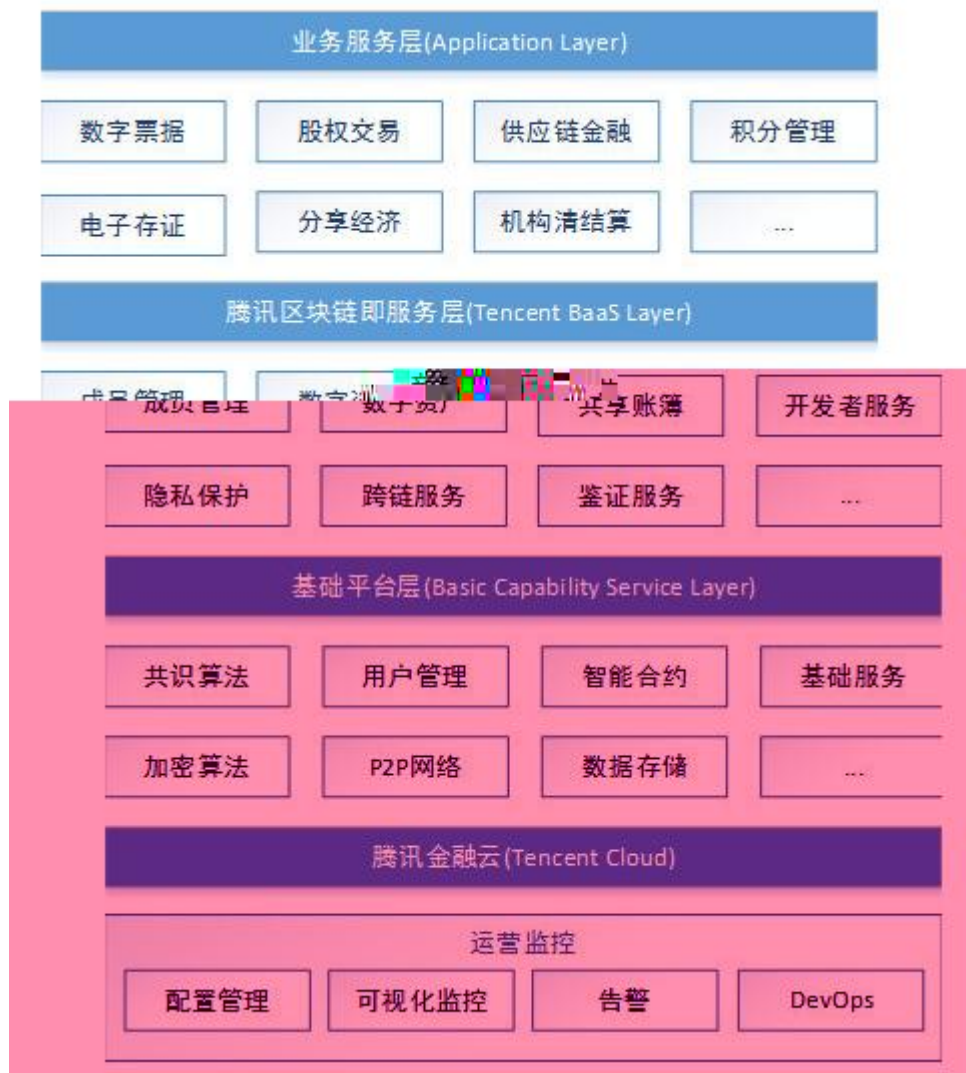
“ ”

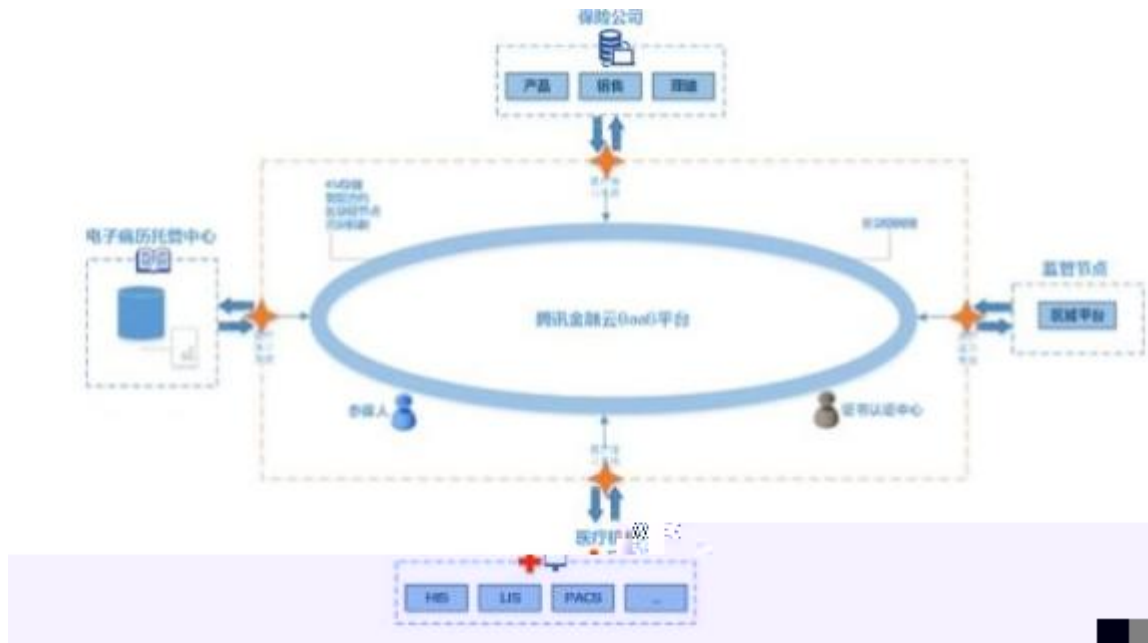
6.6

2017

BaaS

Blockchain as a Service





7.

7.1

OpenStack

2017 OpenStack

OpenStack

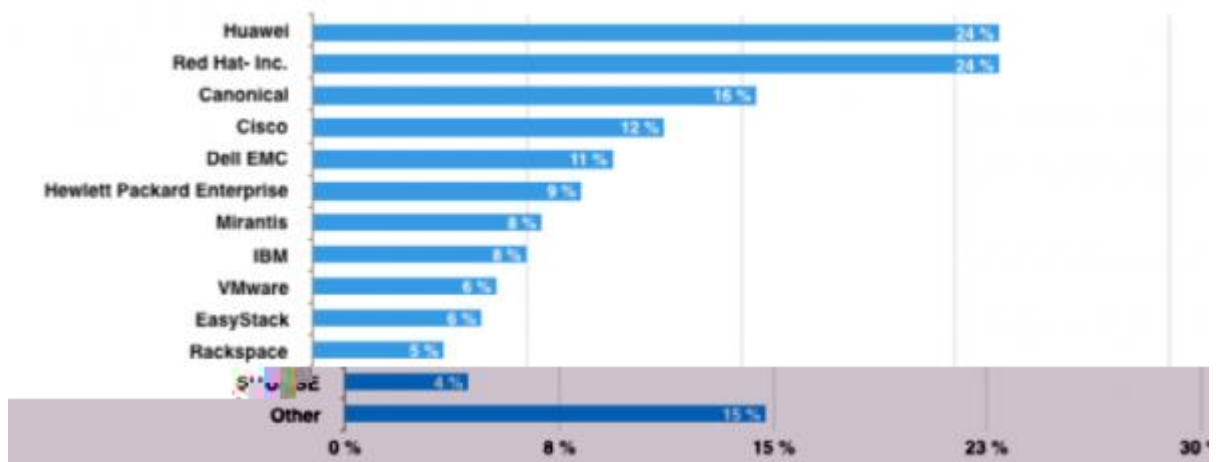
OpenStack

OpenStack

OpenStack

FusionSphere

Which vendor's products power your OpenStack cloud?

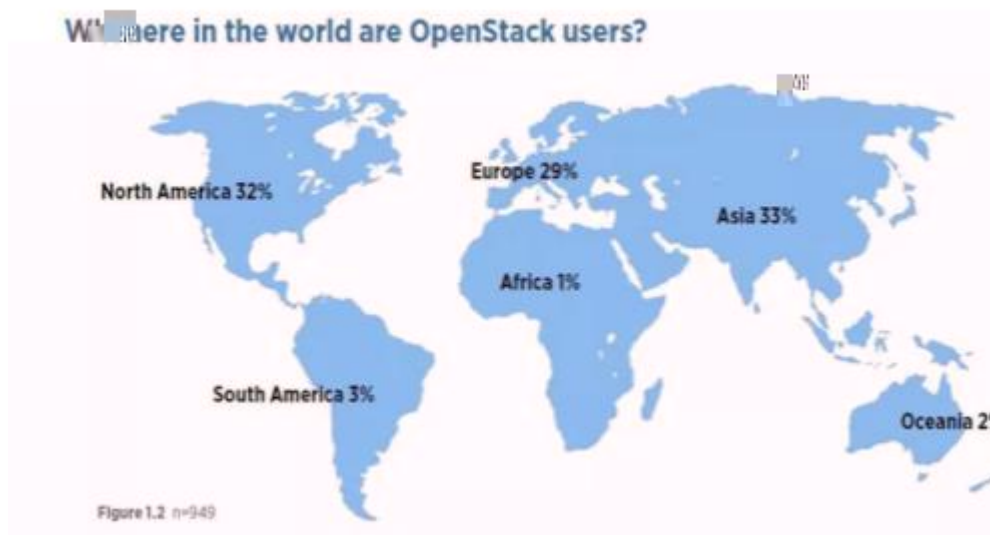


OpenStack EasyStack
 Red Hat Canonical Cisco Dell Hewlett Packard Enterprise Mirantis
 IBM VMware EasyStack Rackspace SUSE
 7.2 “ ” 10
 " " 10 AR/VR

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

MSP

WFBSS

IT

3.3

2017

2017

+

+

Deep Security

4.

4.1

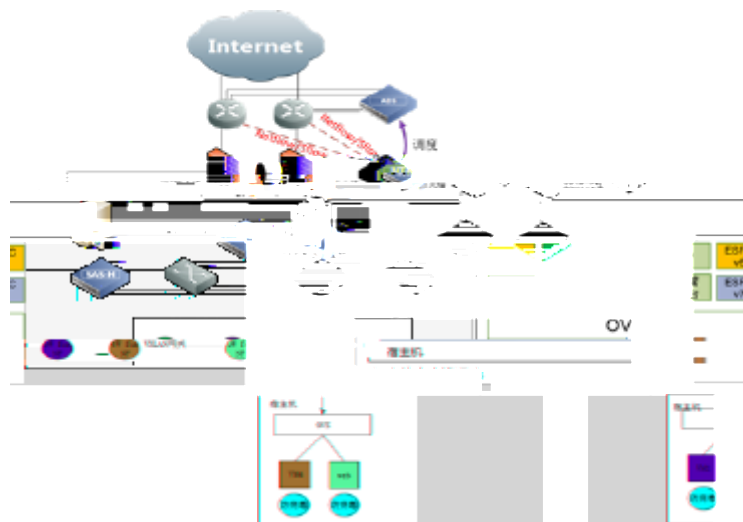
IP

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

Ŷ (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

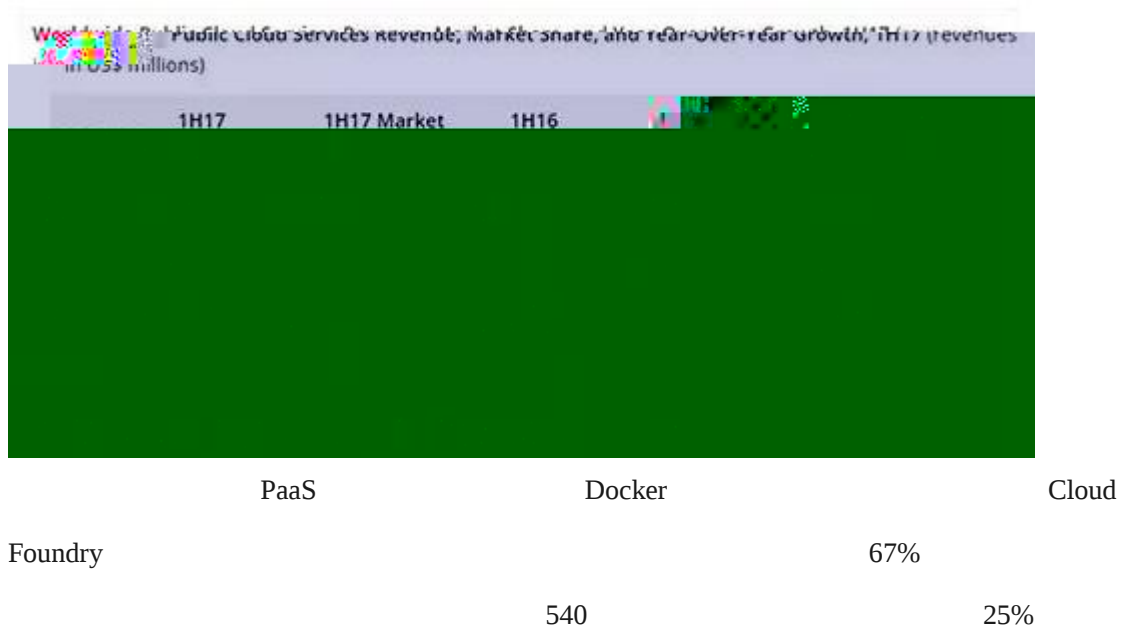
Kubernetes 15
Kubernetes
Kubernetes
Kubernetes 5 5
AI
Kubernetes
PaaS

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%



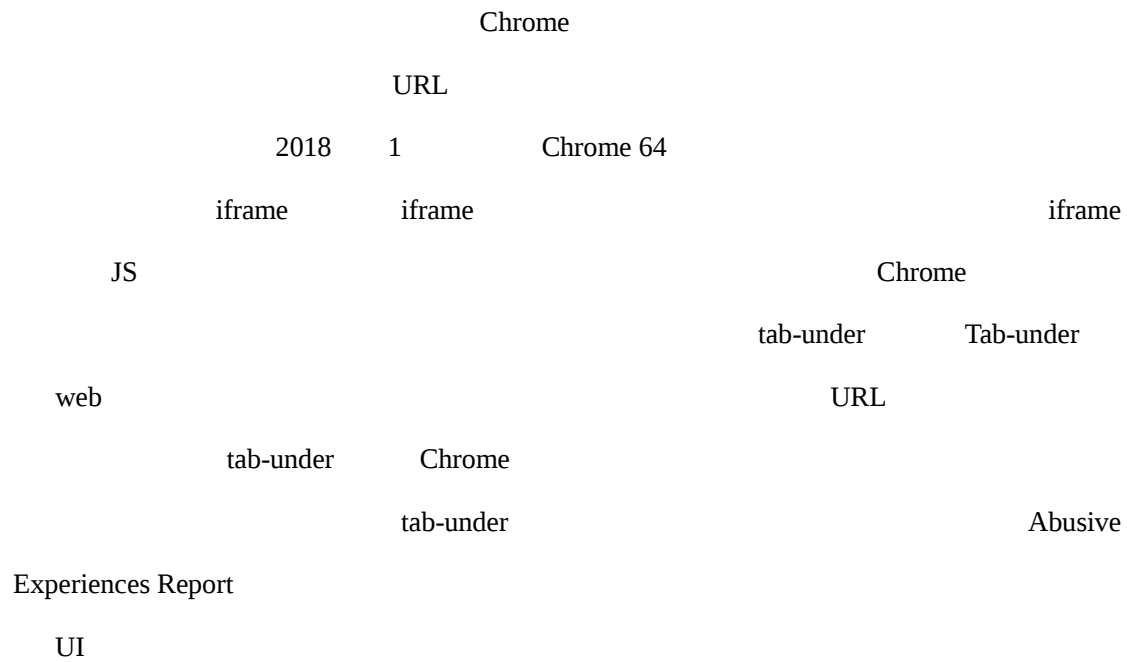
1. Windows 10

11 Windows10
Win10
6
TPM RAM

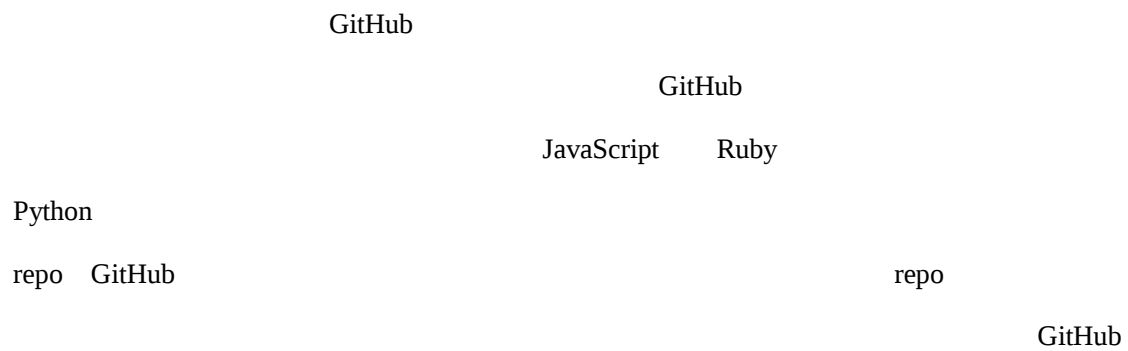
2. Tick

“ Tick ”
Tick Bronze Butler REDBALDKNIGHT
Gofarer Daserf
shell Daserf
Daserf

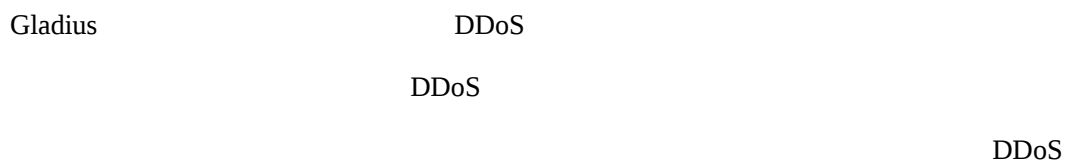
3. Chrome



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