

AWS

Secret Region

VMware

Google

Bitium

ET

AI

OpenStack

451 Resaerch

OpenStack

OpenStack

EasyStack

OpenStack

11

— — CCF-

IDC" 2017

"

Vetrix

2017

" "

WEB

360

MSP

Fortinet

AWS

Fortinet

NEC

VM

LightVM

CNCF

Kubernetes

IBM

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1.	NEC	VM	LightVM	
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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

Rail TCO InCloud
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

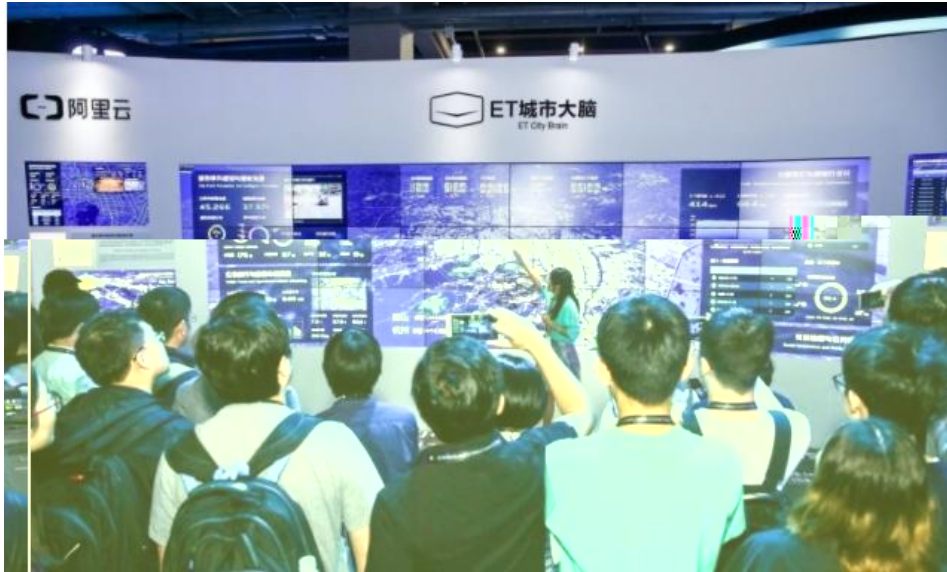
1000

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 " "

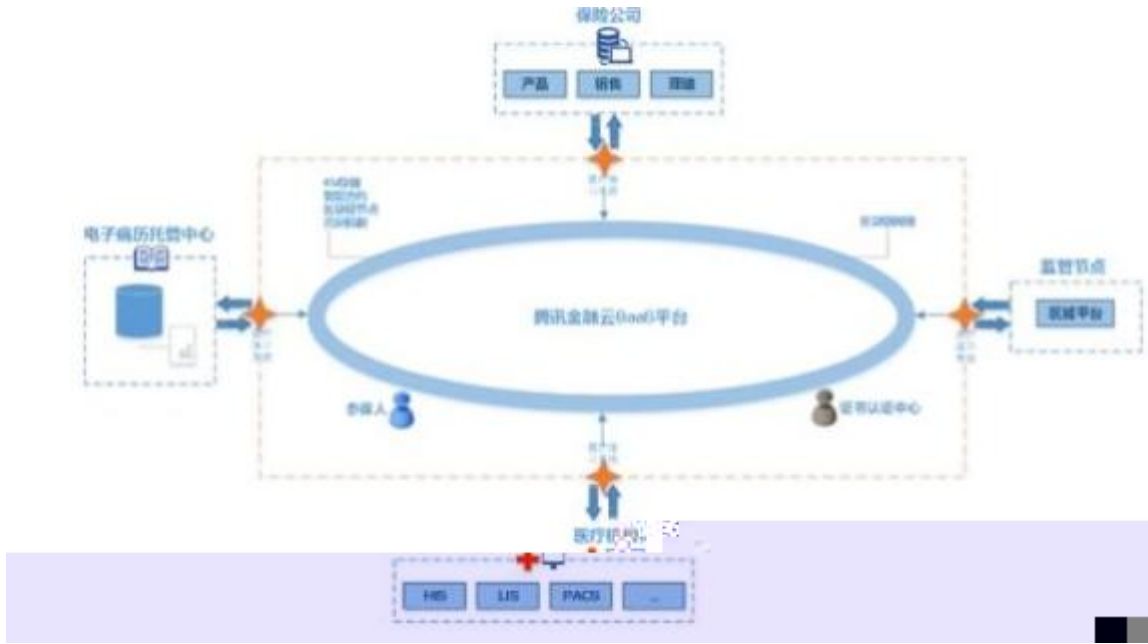
SaaS

" "

6.6

2017 BaaS
Blockchain as a Service





7.

7.1

OpenStack

2017 OpenStack

OpenStack

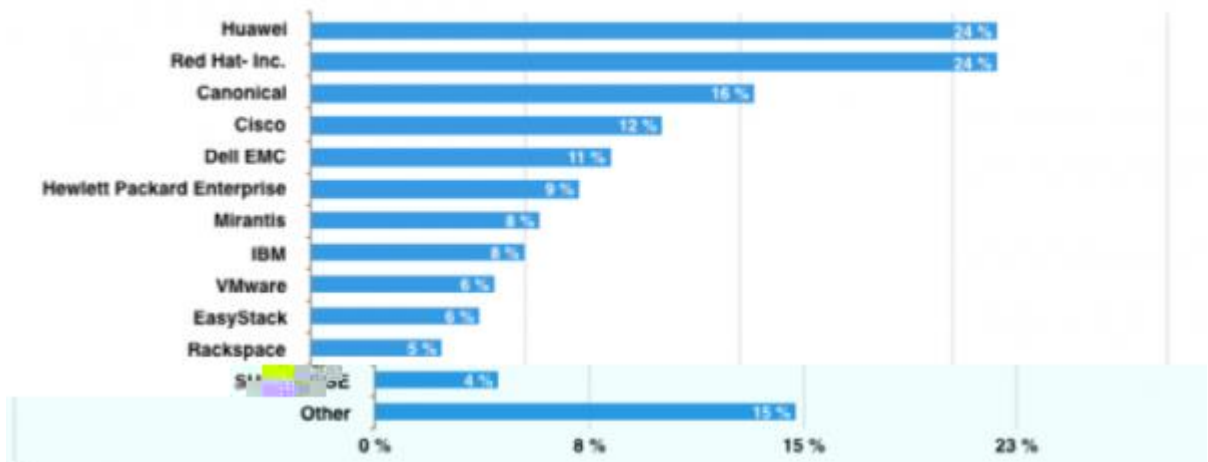
OpenStack

OpenStack

OpenStack

FusionSphere

Which vendor's products power your OpenStack cloud?

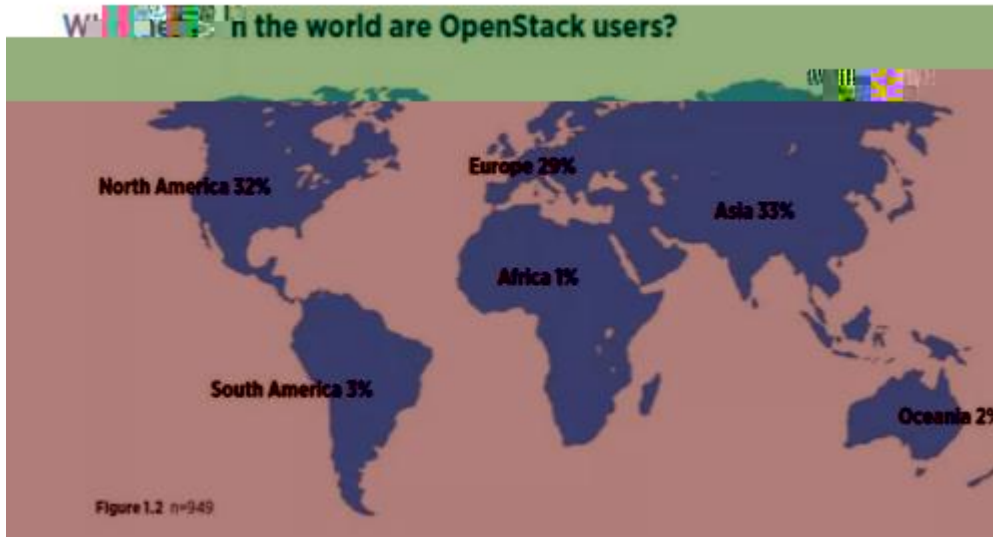


OpenStack EasyStack
 Red Hat Canonical Cisco Dell Hewlett Packard Enterprise Mirantis
 IBM VMware EasyStack Rackspace SUSE
 7.2 " " 10
 " " 10 AR/VR

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 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.

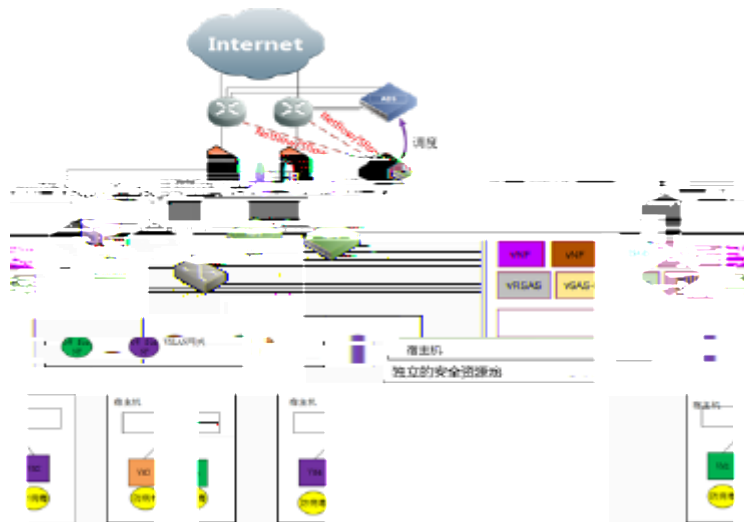
4.1

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

Db WAF
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 (APN)

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

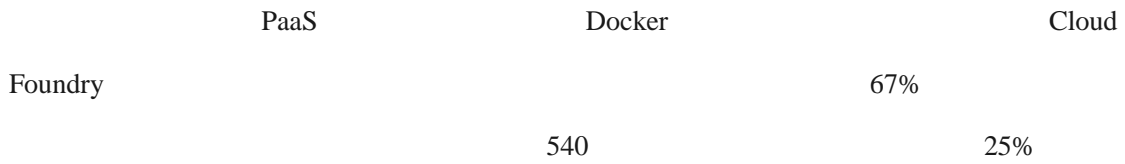
6. IDC PaaS SaaS IaaS

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

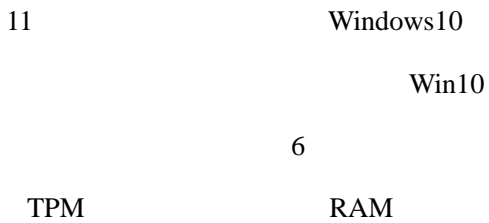
Worldwide Public Cloud Services Revenue, Market Share, and Year-over-Year Growth, 1H17 (revenues in US\$ millions)

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%

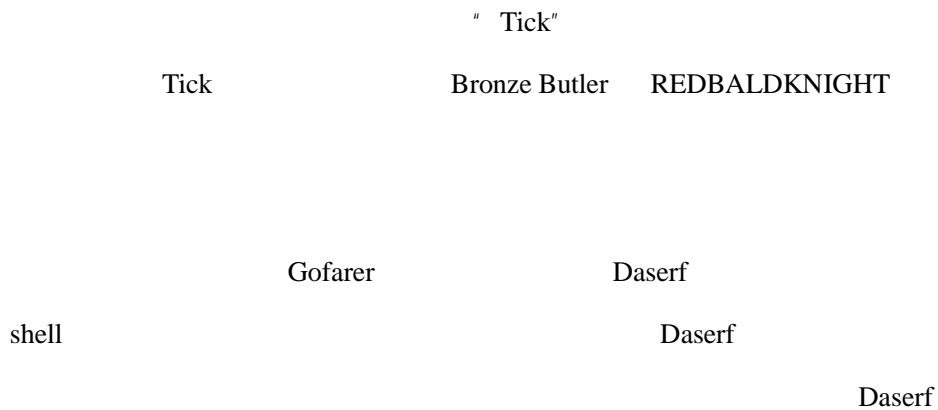
Source: IDC Worldwide Semiannual Public Cloud Services Tracker, 1H17



1. Windows 10



2. Tick



3. Chrome

Chrome
URL
2018 1 Chrome 64
iframe iframe iframe
JS Chrome
tab-under Tab-under
web URL
tab-under Chrome
tab-under Abusive
Experiences Report
UI

4. GitHub

GitHub
GitHub
JavaScript Ruby
Python
repo GitHub repo
GitHub

5. Gladius

Gladius
DDoS
DDoS
DDoS

2.

2.1 NeuVector 700 A

11 7 NeuVector HWVP Hummer Winblad Venture Partners NewGen Capital

7

11 9 Treasury Intelligence Solutions

2.3 Th

11 13 ThreatQuotient Adams Street Partners 4 3000

C ThreatQuotient ThreatQ

ThreatQ ThreatQuotient