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AWS AWS Systems Manager

AWS Bitbucket AWS PrivateLink

VPC AWS Elastic Beanstalk

AWS Direct Connect Amazon VPC

Amazon ECS Amazon Linux2 AMI Amazon Virtual Private

Cloud IP Amazon MQ HIPAA VMware

20 Google 75

GitGub IoT “

” HPC China 2018

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ROCKY

2018 VR

CERNET 2018 RealSight APM

TOSCA · OSM

Gartner UTM

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Check Point 1.75

Dome9

CNCF ¬—Falco

Netflix Spinnaker 1.10 Kubernetes1.12

Azure Rancher 2.1 Kubernetes

PaaS Rainbond v3.7.2

Docker 9200

CNNVD

940

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AWS IP

Internet AWS

VPC AWS

Internet

AWS PrivateLink

1.7 AWS Service Catalog AWS CodePipeline

10 16 AWS Service Catalog AWS
AWS CodePipeline AWS CodePipeline (CD)

AWS Service Catalog CodePipeline
AWS CodeCommit Amazon S3 GitHub
AWS Service Catalog AWS CloudFormation

Service Catalog Service
Catalog AWS CodePipeline Service Catalog
Service Catalog

1.8 Amazon ECS Amazon Linux 2 AMI

10 18 Amazon Linux 2 (AL2) Amazon Elastic Container
Services (ECS) Amazon (AMI)
ECS AMI Amazon Linux 2018.03 Amazon
Linux ECS AMI AL2
ECS AL2 AMI ECS ECS AL2
AMI ECS ECS
ECS ECS

1.9 Amazon Virtual Private Cloud IP

10 23 Amazon Virtual Private Cloud (VPC) IP
AWS Internet IP (BYOIP)
IP AWS EC2 NAT
IP IP IP
IP AWS IP
IP

IP

AWS IP

IP IP

IP

IP AWS

IP IP

IP

VMWare

2.1 **VMware** **20**

10 18 VMware

20

VMware 20

VMware CEO · (Pat Gelsinger) 5000

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VMware · (Arun Parameswaran)

GOOGLE

3.1 **Google**

10 1 Google “ Project Stream ”

Chrome

1080p/60fps 3A

Project Stream

Google 25 Mbps

Project Stream

10 26

GitHub

PCMAG GitHub Nat Friedman 3100

GitHub

Linux Linux

5.1 IoT “ ”

IoT “ ST ”

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STM32 IoT

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IoT ST

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ST

IoT “

ST IoT

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9 STM32

AliOS Things STM32

5.2 **HPC China 2018**

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HPC China HPC

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HPC

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EHPC SCC

SCC 25%

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IT

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IT “ ”

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AWS Synergy Research Group 6

Alphabet

6.1

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FISCO

100

FISCO BCOS BCOS

FISCO Taskforce BCOS

Hyperledger Fabric R3 Corda

WeBank

BCOS 1000

BCOS

7.1 **+VR+ + “ ” VR**

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2018 “ ”2017 23.2%

1.3 2018 VR

“VR ” 2018

VR

“2018 VR ” VR/AR

1.4 CERNET 2018

CERNET HERNET

CERNET CERNET 2018

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2.1 RealSight APM TOSCA

OASIS TOSCA

RealSight APM

3.1 · OSM

—— · OSM(Open Source MANO)

VNF Virtual Network Function OSM

3.2 Gartner UTM

Gartner 2018 UTM Gartner UTM

CHALLENGERS
LEADERS
Fortinet
Check Point Software Technologies
Cisco
Sophos
SonicWall
Huawei
Juniper Networks
WatchGuard
Barracuda Networks
Stormshield
Venustech
Hillstone Networks
Untangle
Rohde & Schwarz Cybersecurity
NICHE PLAYERS
VISIONARIES
ABILITY TO EXECUTE
COMPLETENESS OF VISION
As of July 2018
© Gartner, Inc

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360

Fortinet

9.1 **Fortinet** **Gartner**

Fortinet Gartner 2018

Figure 1. Magic Quadrant for Enterprise Network Firewalls

Checkpoint

10.1 Check Point 1.75 Dome9

Check Point Dome9 Security

1.75

Dome9 2011

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CNCF Falco

CNCF Falco

Falco Sysdig Sysdig CNCF

Falco

- Linux

- CNCF Fluentd logging project Kubernetes

  Falco Kubernetes

- Kubernetes API Linux

CNCF Dan Kohn “ Falco

Kubernetes Mesosphere Cloud Foundry Falco Fluentd Nats

rkt Falco ”

Netflix Spinnaker

Google Netflix ů

Kubernetes 1.12

Kubernetes

Azure

—— Kubelet TLS Bootstrap Azure

VMSS ——

Kubelet TLS Bootstrap

Kubelet

kubelet Node

Authorizer NodeRestriction admission controller

SIG Auth kubelet CSR

v1

kubelet beta

kubelet / TLS

API

root

Azure VMSS Cluster-Autoscaler

Azure VMSS

Kubernetes

Kubernetes Azure VMSS

cluster-autoscaler Kubernetes

- RuntimeClass

alpha

- Kubernetes CSI / alpha
  API CRD CSI PV /
- beta
  AWS EBS GCE PD beta
- Pod beta Pod
  PodSpec PID
- taint beta taint

- Horizontal Pod Autoscaler / beta
  Horizontal Pod Autoscaler

- Horizontal Pod Autoscaler beta
- Pod beta Pod
  pet Pod

- KMS beta
  Google Cloud KMS Azure Key Vault AWS KMS Hashicorp Vault
  etcd

Rancher 2.1 Kubernetes

Rancher 2.1 Rancher 2.0
Rancher Cattle Rancher Kubernetes
Kubernetes

Rancher 2.1

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Rancher PingID Microsoft Active Directory OpenLDAP Keycloak
FreeIPA Azure Active Directory

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CPU

Pod

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Rancher 2.1 helm chart ingress

➢ CICD

Rancher 2.1 CICD CI / CD Kubernetes

➢ GitLab

Rancher 2.1 Rancher CI / CD GitLab CICD GitLab

GitLab

➢ CLI

Rancher Kubernetes

➢

Rancher Server Rancher

Rancher Server

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Rancher 2.1 Tiller Kubernetes Dashboard

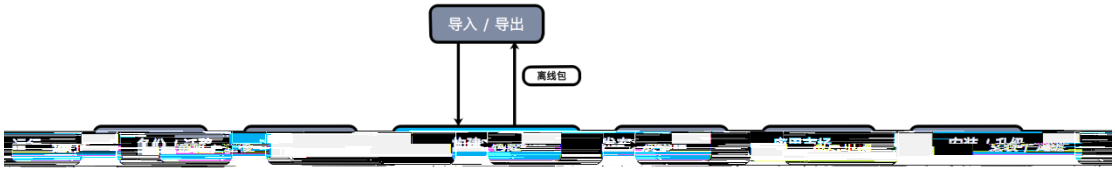
YAML

PaaS Rainbond v3.7.2

Rainbond ” PaaS Kubernetes

ServiceMesh CI/CD

3.7.2



Rainbond

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Docker 9200

Docker

1.92 9200

Kubernetes

Docker 2019

IPO

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2017

7500

AME Cloud Ventures Benchmark Coatue Management

Greylock Partners Docker 13

New Service Debut
Container Security Service
国内首发：容器安全服务
Protects virtual environments of containers throughout their lifecycles: from development to production
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100000+
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ISP IDC CDN

3. CNNVD

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CNNVD-201810-294 CVE-2018-8494 Windows Hyper-V

CNNVD-201810-327 CVE-2018-8490

4. “ ”

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10 18 App

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GDPR

App Store

6. 940

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1.1 Palo Alto Networks RedLock

10 3 Palo Alto Networks RedLock 1.73 Palo Alto Networks Nir Zuk 2005

RedLock

1.2 Bitdefender RedSocks Security

10 24 Bitdefender RedSocks Security BitDefender

150 5

RedSocks Security

1.3 Check Point Software Technologies Dome9 Security

10 24 Check Point Software Technologies Dome9 Security

1.75 Check Point

VPN Dome9

2.

2.1 BitGo 1500 B

10 18 BitGo Galaxy Digital LP Goldman Sachs 1500 B BitGo

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2.2 Area 1 Security 3200 C

10 23 Area 1 Security AllegisCyber 8 3200 C Area 1 Security

2.3 Arctic Wolf Networks 4500 C

10 25 Arctic Wolf Networks Adams Street Partners 5 4500 C Arctic Wolf Networks SOC

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Arctic Wolf