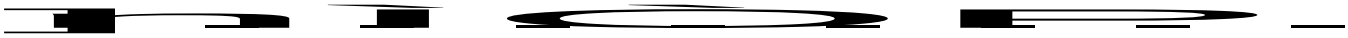
.....ii
..... 1
+ 3
..... 3

.....13



.....26

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

CNCF ¬—Falco

Netflix Spinnaker 1.10 Kubernetes1.12

Azure Rancher 2.1 Kubernetes

PaaS Rainbond v3.7.2

Docker 9200

+

AWS

1.1 AWS Systems Manager

10 1 AWS Systems Manager

1.2 AWS CodeBuild Bitbucket

10 2 AWS CodeBuild Atlassian Bitbucket

CodeBuild

AWS CodeBuild Bitbucket webhook

1.3 Amazon MQ HIPAA

10 2 Amazon MQ HIPAA

(PHI)

Amazon MQ Apache ActiveMQ

Amazon MQ API

JMS NMS AMQP STOMP MQTT WebSocket

1.4 AWS PrivateLink VPC

10 10 AWS VPC VPC

AWS AWS PrivateLink AWS PrivateLink

AWS IP

Internet AWS

VPC AWS

Internet

AWS PrivateLink

+ 201

AWS IP

IP IP

Project Stream

10 26

GitHub

PCMAG GitHub Nat Friedman 3100

GitHub

5.1 **IoT** “ ”

IoT “ ST ”

“ ” ST IoT

“ ”

“ ”

STM32 IoT

“ ”

IoT ST

“ ”

3 F139.23 9 Tf 1 0 00 02.0024 197E>-E>1468

BCOS 1000

BCOS

3/F135.75DC [(35* A.6 0 g 88.184 573.43 Tm f* 9 TJ ET EMC /2)] TJ ET Q

99CLOUD

3.1 ROCKY

10 10 “ ”

Animbus®7.0 CEO COO

&

“ ”

OpenStack 2000

CEO

Animbus®

1.1

“ ”

1.2

CCID

2018 “ ” 2017 23.2%

1.3 2018 VR

“ VR ” 2018

VR

“ 2018 VR ” VR/AR

1.4 CERNET 2018

CERNET HERNET

CERNET CERNET 2018

“ .

· 2.0 ”

‘ + ’

2.0

2.1 RealSight APM TOSCA

OASIS TOSCA

RealSight APM

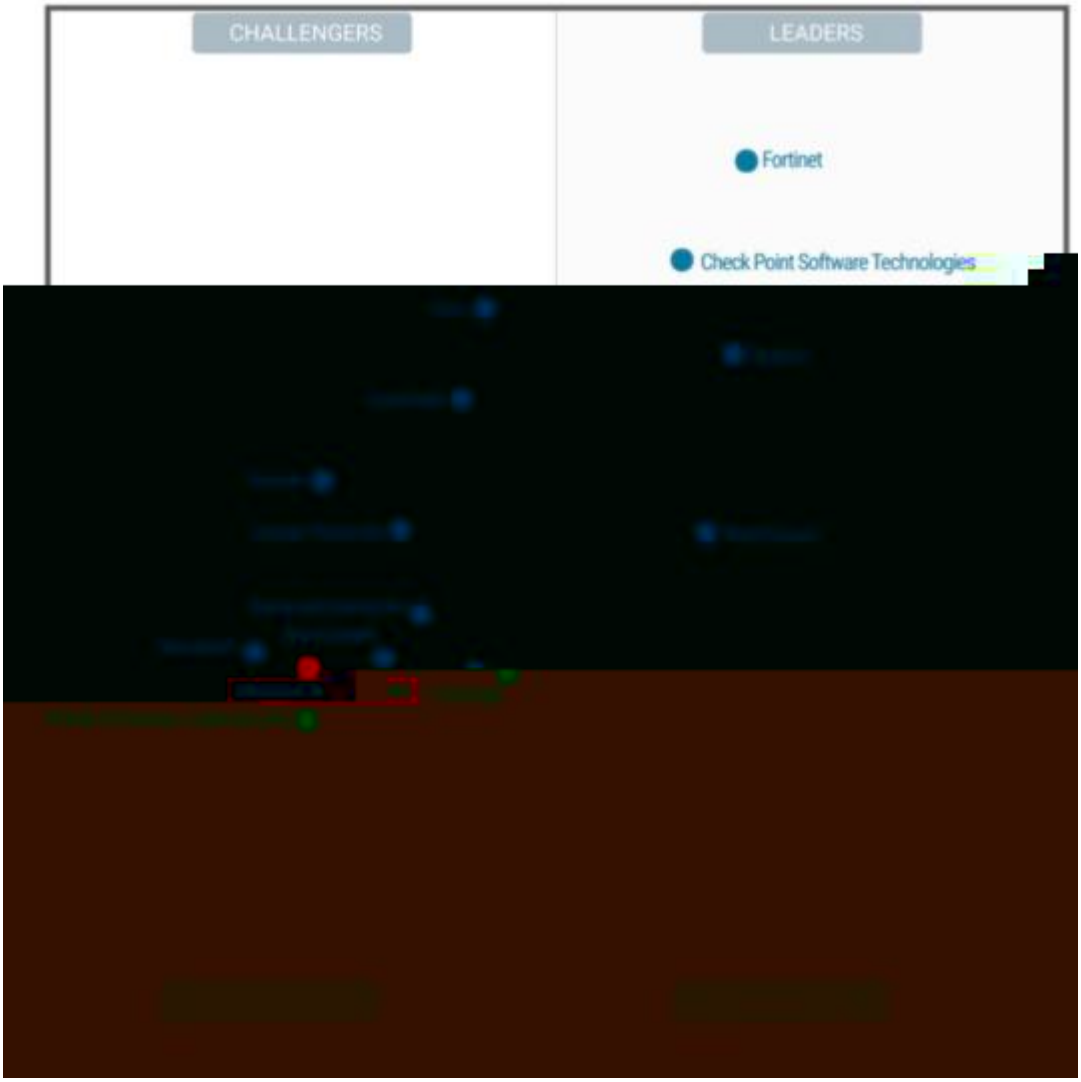
3.1 · OSM

—— · 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

4.1

“ ” “ ” “

” “ ” “ ”

5.1

D

360

Fortinet

Figure 1. Magic Quadrant for Enterprise Network Firewalls

Checkpoint

10.1 Check Point 1.75 Dome9

Check Point Dome9 Security

1.75

Dome9 2011

“ ”

CNCF

CNCF Falco

Falco Sysdig Sysdig CNCF

Falco

Linux

CNCF Fluentd logging project Kubernetes

Falco Kubernetes

ü Kubernetes API Linux

CNCF Dan Kohn “ Falco

Kubernetes Mesosphere Cloud Foundry Falco Fluentd Nats

rkt Falco ”

Netflix Spinnaker

Google ԼNetflix ş Ա ֊

Kubernetes 1.12

Kubernetes

Azure

—— Kubelet TLS Bootstrap Azure

VMSS ——

Kubelet TLS Bootstrap

Kubelet

kubelet Node

Authorizer NodeRestriction admission controller

SIG Auth kubelet

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

Rancher PingID Microsoft Active Directory OpenLDAP Keycloak

FreeIPA Azure Active Directory

CPU

Pod

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

Rancher 2.1 Tiller Kubernetes Dashboard

YAML

+ 2018 10

New Service Debut
Container Security Service
Protects virtual environments of containers throughout their lifecycles, from development to produc
100000+
High Value Vulnerability
100000+
Malicious Program Sample
100 cla
Container Escape Beha

1.

10 1 “

” “

”

2.

10 10

11 1

ISP IDC CDN

3. CNNVD

10 12 MS XML

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

CNNVD-201810-327 CVE-2018-8490

4. “ ”

10 18 “ ” “ ”

10 18 App

“ ” 12

5.

10 18

5

GDPR

App Store

6. 940

10 26 “ ”

940 3

VPN Dome9