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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

CNCF ↔ Falco

Netflix Spinnaker 1.10 Kubernetes1.12

Azure Rancher 2.1 Kubernetes

PaaS Rainbond v3.7.2

Docker 9200

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AWS

1.1 AWS Systems Manager

10 1 AWS Systems Manager

1.2 AWS CodeBuild

10 2 AWS CodeBuild

CodeBuild

AWS CodeBuild

Bitbucket

Atlassian Bitbucket

Bitbucket

webhook

1.3 Amazon MQ

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Amazon MQ

HIPAA

HIPAA

(PHI)

Amazon MQ

Apache ActiveMQ

Amazon MQ

API

JMS NMS AMQP STOMP MQTT WebSocket

1.4 AWS PrivateLink

10 10 AWS VPC

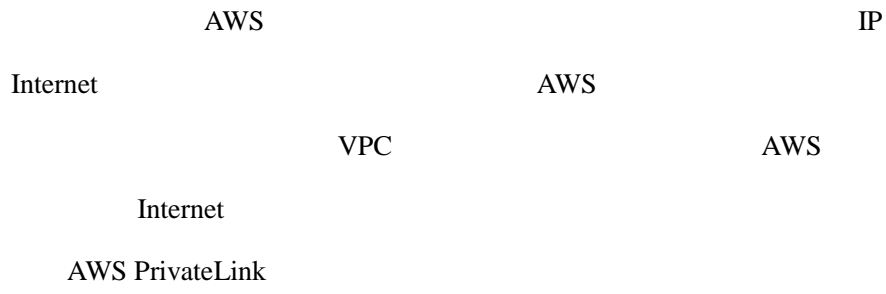
VPC

VPC

AWS

AWS PrivateLink

AWS PrivateLink



AWS

IP

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Project Stream

5.1 **IoT**

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IoT

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ROCKY

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CCID

2018 " " 2017 23.2%

1.3 2018 VR

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VR



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1.4 CERNET 2018

CERNET

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2.0"

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2.1 **RealSight APM**

TOSCA

OASIS TOSCA

RealSight APM

3.1 **OSM**

OSM(Open Source MANO)

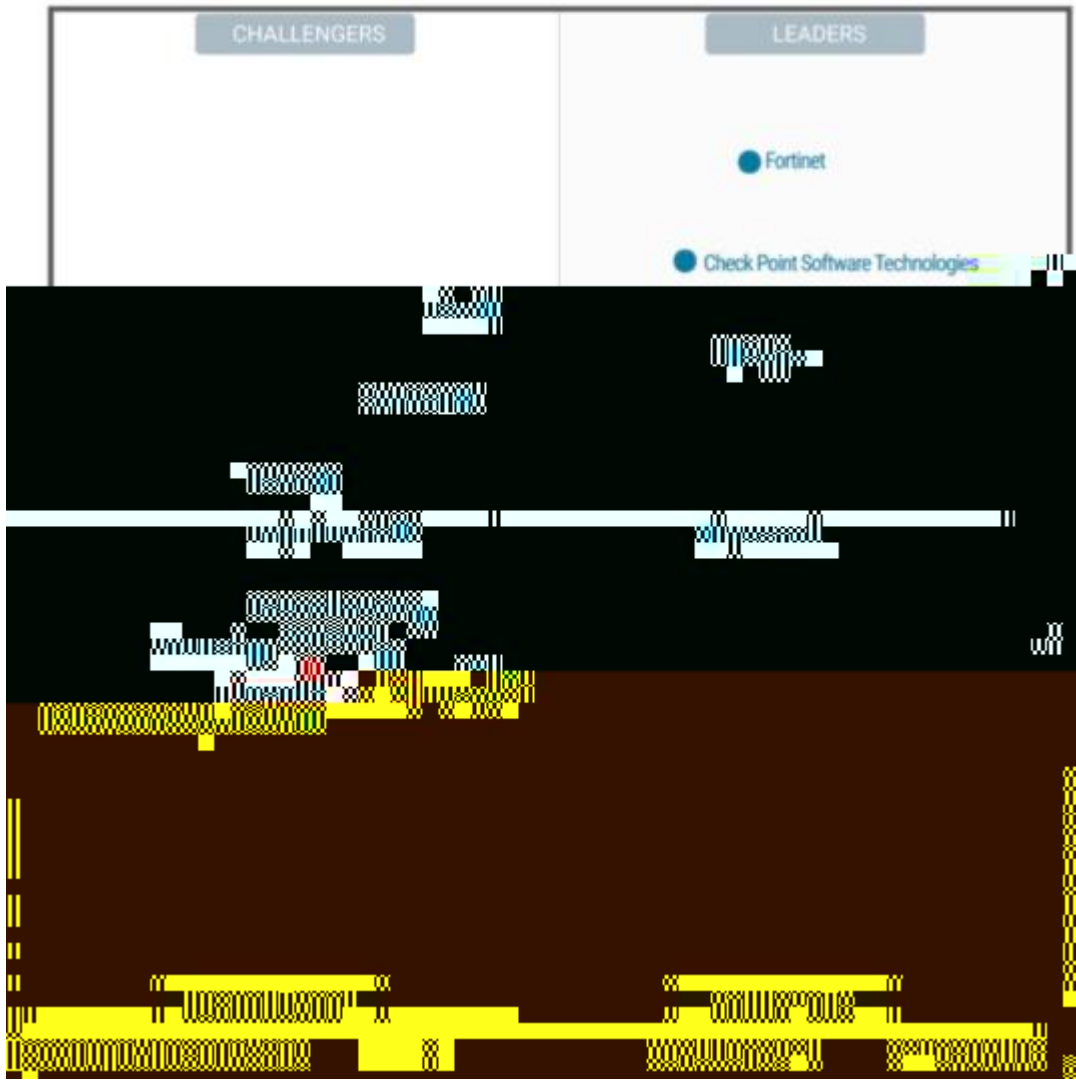
VNF Virtual Network Function

OSM

3.2 **Gartner UTM**

Gartner 2018 UTM

Gartner UTM



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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

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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 #

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



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ISP IDC CDN

3. CNNVD

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MS XML

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

CNNVD-201810-327 CVE-2018-8490

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VPN

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