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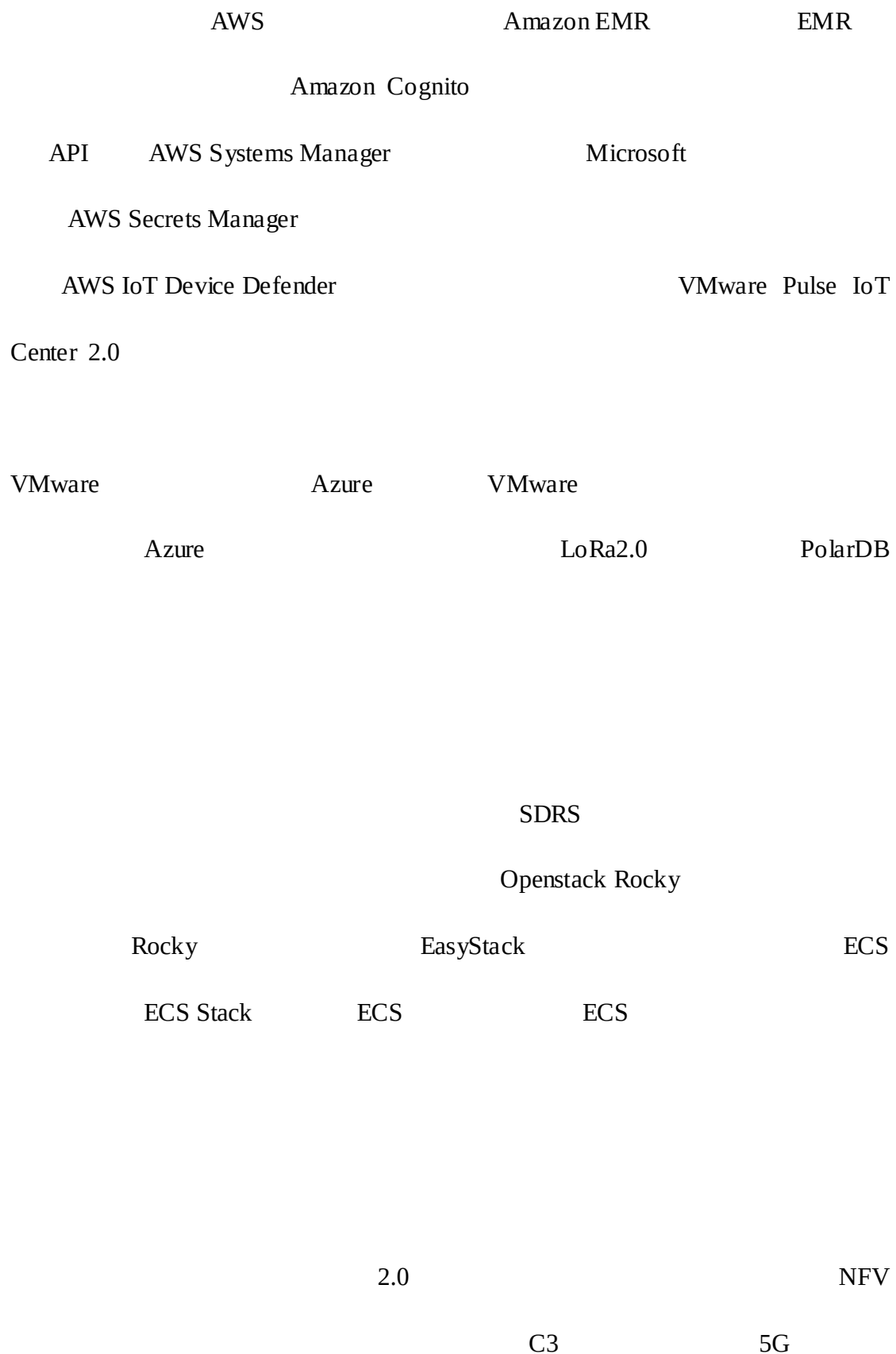
2019

5

+

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VirusTotal

AiLPHA

2019

Helm 3.0 alpha

kubernetes

Docker

Docker Enterprise 3.0

KubeCDN

Kubernetes

CDN

2.0

12 1

Windows

WannaCry

Windows 10

0day

2011

Android

iOS

2

3

Elevate Security

Phish5

Phish5

KnowBe4

CLTRe CLTRe

HyperQube

50

SOAR

Siemplify

3000

C

GuardiCore

6000

C

2019 5 30

+

1. AWS

1.1 Amazon EMR

EMR

5 1 Amazon EMR EMR

EMR Apache Hadoop Apache

Spark Apache Hive Hue EMR

Amazon EMR

CLI

1.2 Amazon Cognito

API

5 6 Amazon Cognito Cognito API

AdminSetUserPassword API

Amazon Cognito Web

Amazon Cognito SAML 2.0

Facebook Google Amazon

1.3 AWS Systems Manager

Microsoft

5 7 AWS Systems Manager Amazon EC2

Microsoft Microsoft

Microsoft Windows AWS Systems Manager

Microsoft

Systems Manager

AWS

Microsoft

EC2 Microsoft

CLI API

1.4 AWS Secrets Manager

5 8 Python .NET Go Secrets Manager

AWS Secrets Manager

API

2018 Secrets Manager Java JDBC

Secrets Manager

API

Secrets Manager

1.5 AWS IoT Device Defender

5 15 AWS IoT Device Defender AWS IoT Core

AWS IoT Device Defender IoT

AWS IoT Device Defender AWS IoT Core

AWS IoT

Device Defender

AWS IoT

Device Defender

IP

/

/

TCP/UDP

IP

2. VMWare

2.1 VMware Pulse IoT Center 2.0

5 7 VMware

VMware Pulse IoT Center

VMware Pulse IoT Center 2.0

/

Pulse IoT

Center 2.0

IT OT

VMware Pulse IoT Center 2.0

3. GOOGLE

3.1

5 13

TrueVUE

TrueVUE SaaS

API-first

TrueVUE

4. Azure

4.1 VMware

Azure

VMware

5 1

VMware

Azure

VMware

Azure

Azure

VMware

Windows

5.

5.1

LoRa2.0

5 20

LoRa2.0

LoRa IP

LoRa

LoRa

LoRa1.0

2.0

1.0

2.0

5.2

PolarDB

5 21

PolarDB

MySQL PostgreSQL Oracle

1/6

40

PolarDB

2018

5.3

5 23

5.4

5 26

2014

9274

6.

6.1

5 17

6.2

5 20

AI

AI

OTT

TV

TV

AI

6.3

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APP

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AI

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7.

7.1

SDRS

5 9

Storage Disaster Recovery Service

SDRS

SDRS

RPO=0

SDRS

SDRS

1

SDRS

RPO=0

RTO 30min

SDRS

2

SDRS

TCO

60%

MAC

SDRS

License

3

SDRS

SDRS

7.2

FusionPlant

5 27

2019

+

FusionPlant

5G

ICT

FusionPlant

2C

2B

2B

OT

ICT

OT ICT

2019

+

440

4.3

FusionPlant

AI

1

App

APP

90%

50%

100%

20%

IEEE

IEC

2019

ModelArts

AI

AI

ModelArts

- -

AI

AI

FusionPlant

ICT

1. Openstack

2000 / IO CPU/ LBaaS/RabbitMQ/Marriadb

InCloud OpenStack Rocky

HA HA

HA InCloud OpenStack Rocky

/ 500+

InCloud OpenStack Rocky

I/O

InCloud OpenStack Rocky

2. Easystack

2.1 EasyStack

ECS

2019 5 24 EasyStack ECS

EasyStack 18

ECS Stack ECS ECS

500+ ECS



EasyStack

ECS

IaaS

SaaS

3. 99CLOUD

3.1 2018-2019 MEC

5 16 -17

5.17

2019 MEC

200

5G

5G+MEC

ETSI

2018-2019

MEC

5GMEC

5G

CORD,Starlingx,Akaino, OpenStack Edge Group

MEC

ETSI MEC

1.

1.1

2019

10000+

20%

91

100

SaaS



SaaS

2019

SaaS

2017

2017

4

27

429

SaaS

IT

SaaS

IT

U

1.2

2019

2020

70%

IPv6

HTML WORD Excel PDF

CCID

2018

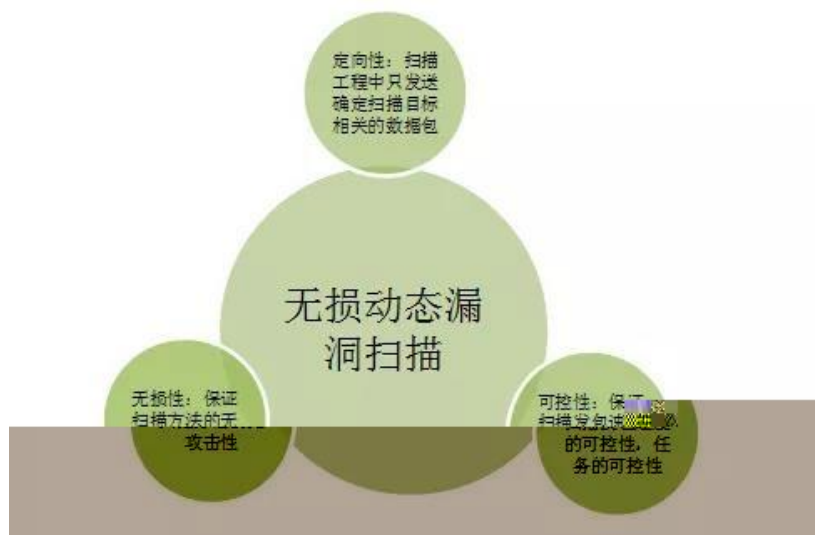
2017

23.2%

IT

1.3

-
-
-





可视化的工控系统安全风险展示

工控系统专用版能够可视化的展示工控系统的端口服务、漏洞风险分布情况、账号分布及过去一段时间的变化趋势。



全面的工控系统漏洞扫描能力

漏洞库覆盖工程师站、操作员站、OPC、PLC、DCS、数字化设计制造软件平台。



准确的工控系统信息发现能力

采用先进的指纹、端口服务识别技术，精确识别工控系统、端口、服务信息。

2.

2.1

2.0

5 16

2.0

1200

8000

2.0

2.0



2.0

CEO

2.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

2.0

3.

3.1

|

NFV

2019

SDN/NFV/AI

NFV

SDN

1

VNF

2

3

/SDN

NFV

SDN

NFV

SDN

VNF PNF

/

NFV

PNF/VNF

VPC

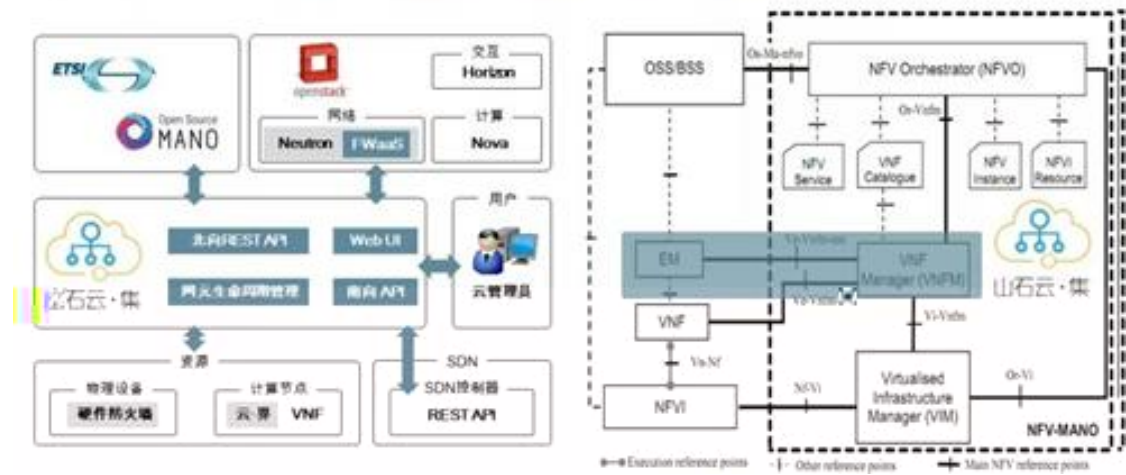
VNF

vFW

PNF

vSYS

面向NFV的安全网元管理方案-山石云·集



4.

4.1

C3

5G

2019

C3

5 7 -8

C3

Cyber

Cloud

Communication

Plan UP

2500 IT

5G

5G

5G

5G

5G

5G

IT OT Operation Technology

CT Communication Technology

ST Security Technology

5G

5G

5G

5G

5G

5G

5G

5G

5G

5G

5G

5.

5.1

VirusTotal

5 7

VirusTotal

POMA

VirusTotal

VirusTotal

VirusTotal

POMA

POMA

EXE PDF Office JAVA Flash

STIX

6.

6.1 2019

AiLPHA

5 26

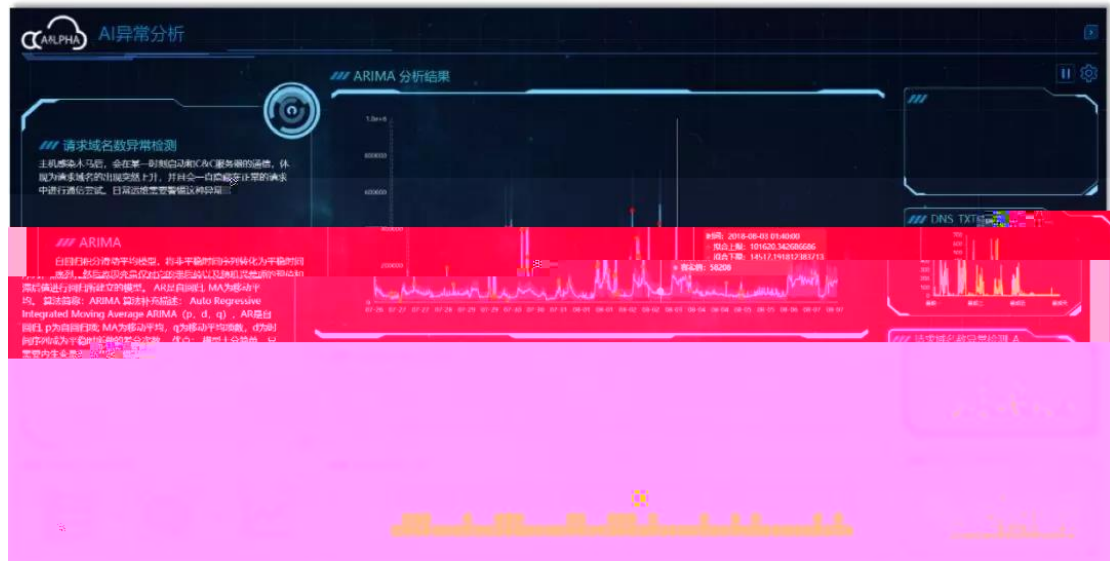
2019

AiLPHA

2019

AiLPHA

2019



AiLPHA

AiLPHA

- [illegible]

7.

7.1

5 29 2019

5G



Office

USB

SCADA ATM

CPU

CPU

1. Helm 3.0 alpha

Helm 3 alpha ,

Tiller

Helm 2 C/S

helm

Tiller Tiller

Kubernetes

; Helm3 Release

14714 B60207 MCID> BDCling11 15 4564395 13.525 r8ef*EMC /P A M3 J2

Helm3

Tiller ,

Kube etes

Helm3

iller

Helm

Kubeconfig

chart

CLI

helm inspect -> helm show

helm fetch -> helm pull

helm delete --purge -> helm uninstall

helm delete -> helm uninstall --keep-history

requirements.yaml

Chart.yaml

helm3

--generate-name

chart

helm serve

chart

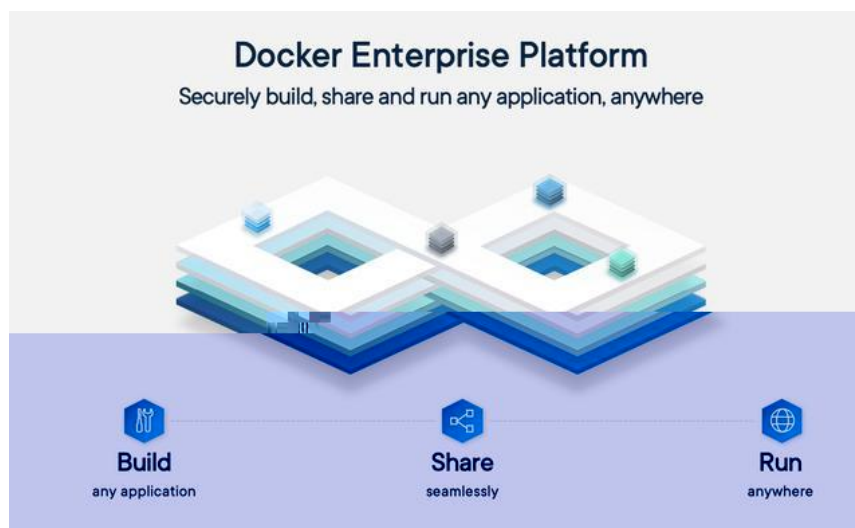
docker registry

2. Docker 3.0

Docker

DockerCon 2019

Docker Enterprise 3.0



Docker

Docker Enterprise 3.0

Docker Enterprise

3.0

Docker Enterprise 3.0

Docker Kubernetes

Kubernetes

Kubernetes

Kubernetes 1.14 DKS

Kubernetes

CSI

DKS

Kubernetes

Kubernetes

Kubernetes

3. kubeCDN

Kubernetes

CDN

Kubernetes

CDN

kubeCDN

kubeCDN

Terraform

EKS

AWS

Route53

AWS

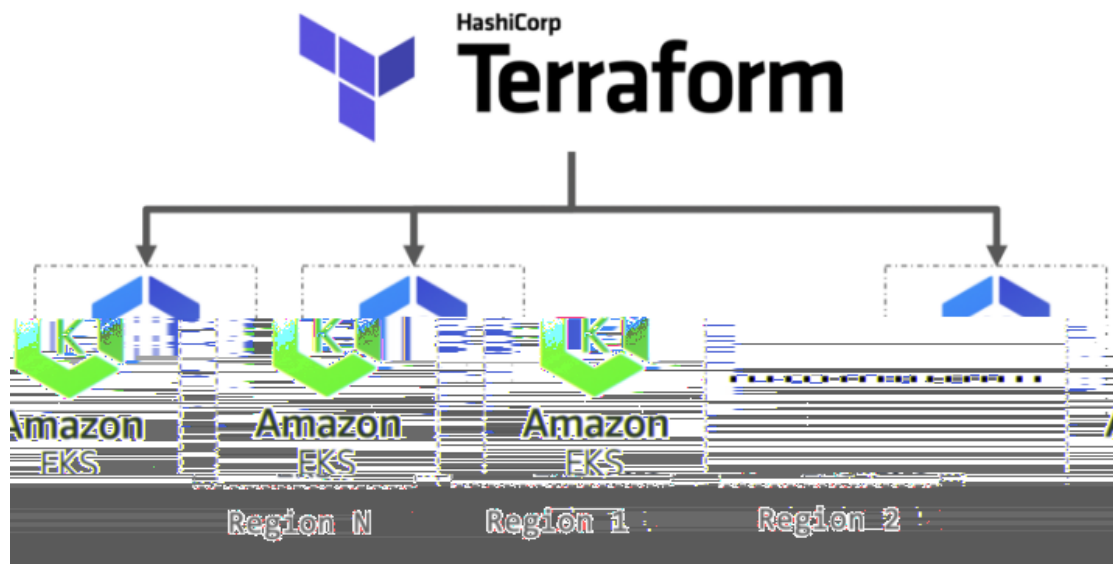
DNS

ExternalDNS

DNS

Terraform

kubeCDN



Terraform

kubeCDN

Route53

kubeCDN

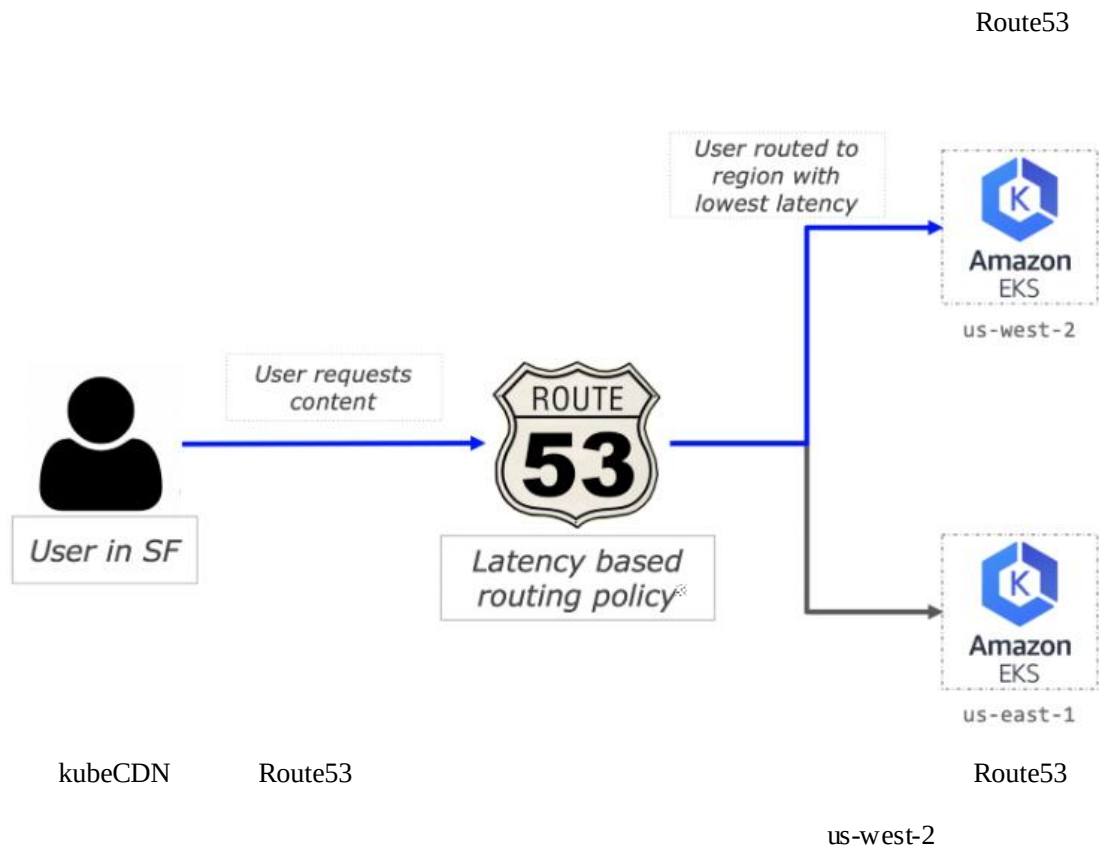
AWS

us-east-1

us-west-2

Route53

A



kubeCDN

Route53

Route53

us-west-2

kubeCDN

Route53

<https://docs.aws.amazon.com/Route53/latest/DeveloperGuide/routing-policy.html>

1. 2.0 12 1

2019 5 13

2.0

2.0 2019 12 1

1.0 2008

10

	+	2019	05	
2.0		2.0		2019
			1.0	2.0
	2.0			
		2.0		
			1.0	2.0
	1.0	2.0		
1				
2				
3				
4				
5				
	2.0			

2. Windows WannaCry

WannaCry	Windows	5	15
		CVE-2019-0708	
		2017	WannaCry
	POC		
WannaCry			Git Hub
Star			

3. 2011

Meltdown	Spectre	Foreshadow
ZombieLoad	2011	

PC

4. Windows 10 0day

SandboxEscaper

Windows

0day

8

SYSTEM TrustInstaller

Task Scheduler

Windows XP

.JOB

Task Scheduler

DACL

JOB

~~DACL~~

Windows 10

1.

1.1 Elevate Security Phish5

5 2 Elevate Security Phish5 Elevate Security
2017 Phish5

1.2 KnowBe4 CLTRe AS

5 21 Know Be4 CLTRe CLTRe
CLTRe Know Be4

2.

2.1 HyperQube 50

5 8 HyperQube Adam Ghetti 5 50
HyperQube IT

2.2 Siemplify 3000 C

5 20 Siemplify 83North 3 3000 C
Siemplify SOAR

2.3 GuardiCore 6000 C

5 20 GuardiCore 83North 7 6000 C
Guardicore