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2019 5

AWS Amazon EMR EMR

Amazon Cognito

API AWS Systems Manager Microsoft

AWS Secrets Manager

AWS IoT Device Defender VMware Pulse IoT

Center 2.0

VMware Azure VMware

Azure LoRa2.0 PolarDB

SDRS

Openstack Rocky

Rocky EasyStack ECS

ECS Stack ECS ECS

2.0 NFV

C3 5G

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 Manage Microsoft

5 7 AWS Systems Manager Amazon EC2

Microsoft Microsoft

Microsoft Windows AWS Systems Manager

Microsoft

Systems Manager

AWS

Microsoft

EC2 Microsoft

Center 2.0

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

5 24

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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

90%

50% 100% 20%

IEEE IEC

2019 ModelArts AI

AI ModelArts

- - AI

AI

FusionPlant

ICT

1. Openstack

2000 ä9H|58P6 IO CPU/ LBaaS/RabbitMQ/Marriadb I1400EM>]T15 TJET19734I

InCloud OpenStack Rocky

HA HA

HA

EasyStack ECS

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

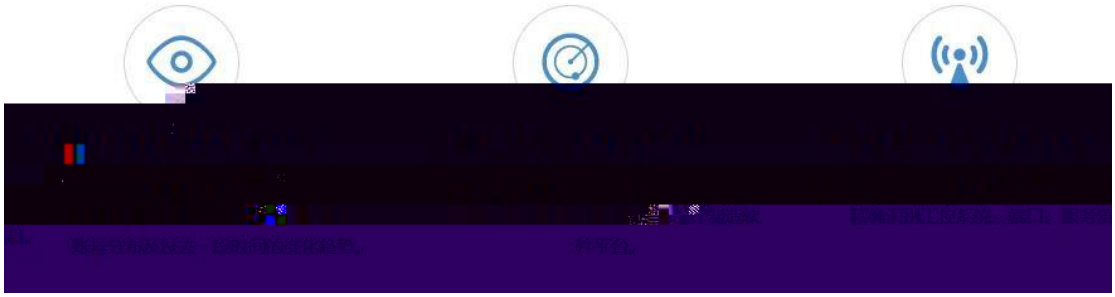
HTML WORD Excel PDF

CCID

2018 2017 23.2%

IT

1.3



2.

2.1 **2.0**

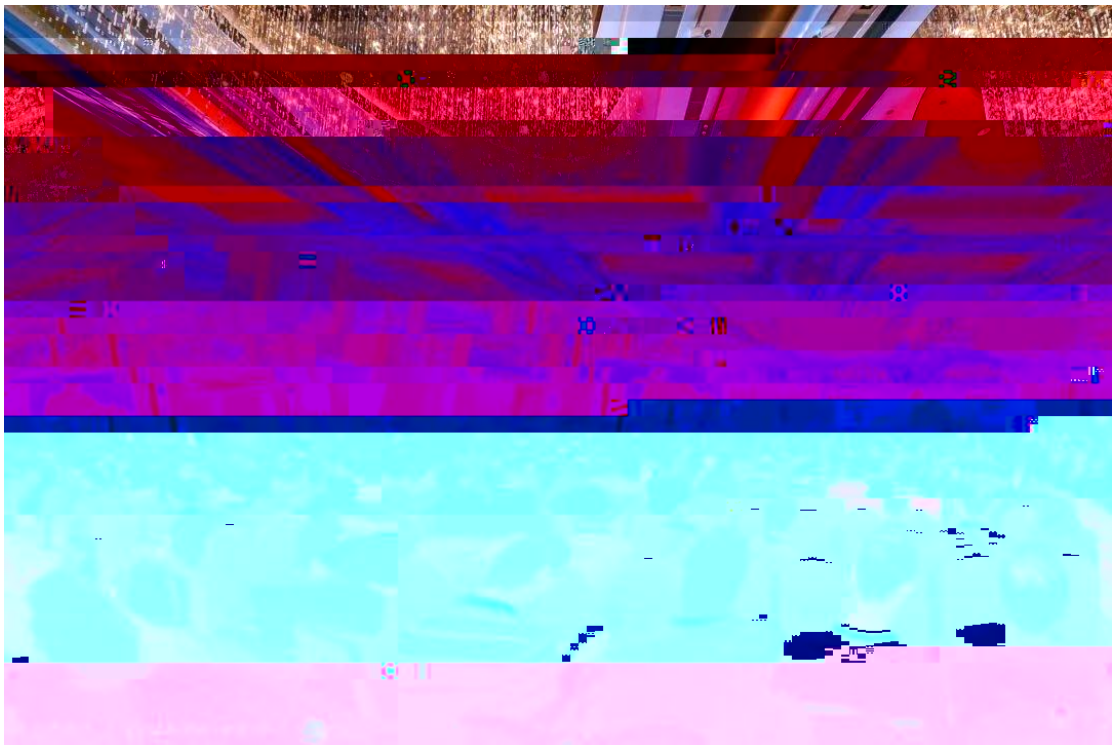
5 16

2.0

1200 8000

2.0

2.0



2.0

CEO

2.0

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3.

3.1 | NFV

2019 SDN/NFV/AI

NFV

SDN

1 VNF

2

3 /SDN

NFV

SDN



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

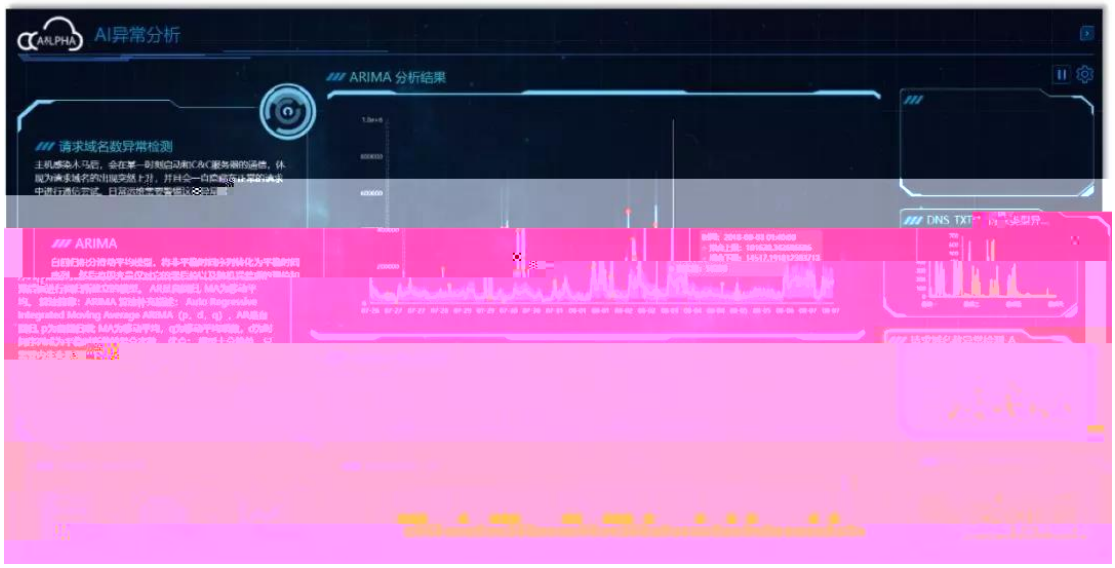
6.

6.1 **2019** **AiLPHA**

5 26 2019 AiLPHA

2019 AiLPHA

2019



AiLPHA

AiLPHA

7.

7.1

5 29 2019

5G

+ 2019 05

CPU

1. Helm 3.0 alpha

Helm 3 alpha ,

Tiller

Helm 2 C/S helm Tiller Tiller Kubernetes

; Helm3 Release

helm tiller Helm3 Helm

Helm3 Tiller , Kubernetes

Helm3 tiller

Helm Kubeconfig

+ 2019 05

Docker Enterprise 3.0 Docker Kubernetes Kubernetes

Kubernetes

Kubernetes 1.14 DKS Kubernetes

DKS

Kubernetes Kubernetes

Kubernetes

3. kubeCDN Kubernetes CDN

Kubernetes CDN

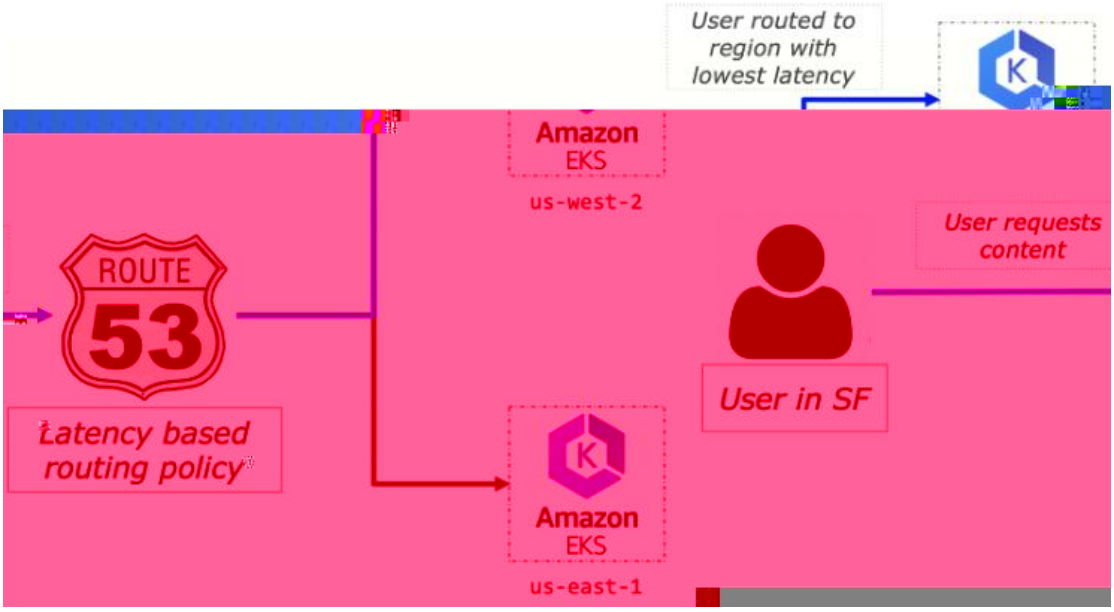
kubeCDN

kubeCDN Terraform EKS

Route53 AWS DNS

A

Route53



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

2.0 2.0 2019

1.0 2.0

2.0

2.0

1.0 2.0

1.0 2.0

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2.0

2. Windows WannaCry

WannaCry Windows 5 15

CVE-2019-0708

2017 WannaCry

POC

WannaCry GitHub

Star

3. 2011

Meltdown Spectre Foreshadow

ZombieLoad 2011

PC DACL

4. Windows 10 0day

SandboxEscaper

Windows 0day 8

SYSTEM TrustInstaller

Task Scheduler

Windows XP .JOB

Task Scheduler DACL JOB

DACL

1.

1.1 **Elevate Security** **Phish5**

5 2 Elevate Security Phish5 Elevate Security

2017 Phish5