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AWS

Amazon DocumentDB

Amazon DynamoDB

AWS

Database Migration Service

Amazon DocumentDB AWS Device Farm

Appium Node.js

Appium Ruby

AWS Storage Gateway

AWS

Backup AWS Glue

Python Shell

AWS IoT Core

VMware

AWS

BigCommerce

Google

SaaS

Azure

IPv6 QQ

IPv6

EasyStack

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•SD-WAN

APP

360

CheckPoint

CoreDNS

CNCF

OpenShift

Kubernetes

Federation V2

RancherOS v1.5.0

wifi 4G

Hyper-V Istio 1.1

NFV

Intel

Nauta

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Microsoft 365

Adobe

Experience Manager

NSA

GHIDRA

USB-C

USB

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SAP

Onapsis

SAP

Virtual Forge

OneLogin

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1. AWS

1.1 Amazon DocumentDB

1 9 Amazon DocumentDB MongoDB

MongoDB

MongoDB

Amazon DocumentDB

AWS Database Migration Service (DMS)

Amazon EC2

MongoDB

Amazon DocumentDB

Amazon DocumentDB

1.2 AWS Database Migration Service

Amazon DocumentDB

1 9 AWS Database Migration Service (AWS DMS) Amazon

DocumentDB

MongoDB

DMS

MongoDB

AWS DMS

Amazon Aurora PostgreSQL MySQL

MariaDB Oracle SAP ASE

Microsoft SQL Server

Amazon DocumentDB

1.3 AWS Device Farm

Appium Node.js

Appium Ruby

1 10 AWS Device Farm

Ruby

Node.js

Appium

Device Farm

JavaScript

Ruby

Mocha

RSpec

AWS Device Farm

Android iOS Web

Device Farm

Espresso XCTest Appium Python Appium Java
 Device Farm Appium Node.js Appium
 Ruby

1.4 AWS Storage Gateway AWS Backup

1 16 AWS Backup AWS
 Storage Gateway AWS Backup
 AWS Backup
 AWS Backup
 Amazon EBS Amazon EBS

Amazon EC2

1.5 AWS IoT Core

1 18 AWS IoT Core iOS AWS
 iOS
 AWS IoT Core OAuth AWS IoT
 Core X.509 iOS
 AWS IoT iOS

1.6 Amazon DynamoDB

1 21 AWS Cloud9 (IDE)
 AWS Cloud9 AWS CloudTrail
 Cloud9 CloudTrail
 Amazon S3 Cloud9
 AWS AWS CloudTrail

1.7 AWS Glue Python Shell

1 22 AWS Glue Python
 ETL AWS Glue

Apache Spark				Python Shell	Amazon
Redshift	Amazon Athena	Amazon EMR		SQL	
AWS Glue		Python Shell		Python 2.7	
Boto3	NumPy	SciPy	Pandas	1	DPU
					0.0625
DPU	1/16	DPU	Python Shell	DPU	4
vCPU	16GB				

2. VMWare

2.1 VMware AWS

1 14 AWS VMware Cloud

VMware

VMware

VMworld



VMware

AWS

AWS

VMware Cloud

VMware

VMware

VMware

AWS

AWS

VMware Cloud

VMware

Cost Insight

AWS

VMware Cloud

CIO

3. GOOGLE

3.1 BigCommerce

Google

SaaS

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BigCommerce

GCP

SaaS

BigCommerce

GCP

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Brian Dhatt

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BigCommerce

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4. Azure

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Blink

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graph LR
    A[Flink  
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Uber]
    B --> C[Flink  
Flink]
  
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IBM

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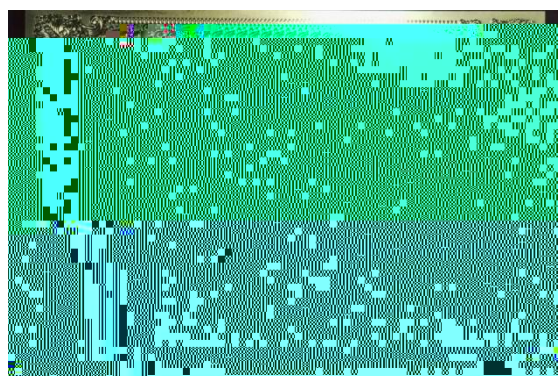
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2.1 •SD-WAN

1 10 2019 SD-WAN2.0
& •SD-WAN
SD-WAN



SD-WAN

SD-WAN 2.0 Software-Defined WAN v2.0

VPN

AUTO VPN VPN

SD-WAN

300% 80%

SD-WAN

UCPE

SD-WAN 2.0

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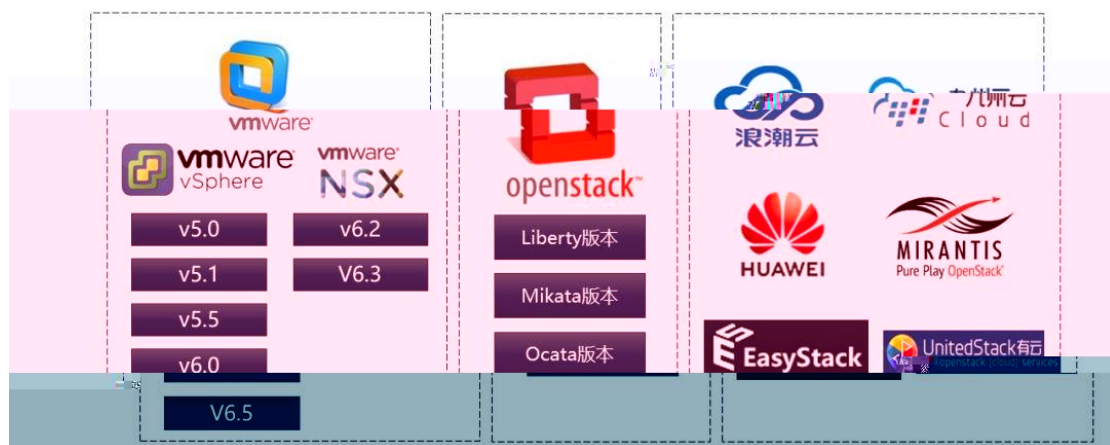
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可适配多种云环境



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VMware Ready

CSA

CSA

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APP

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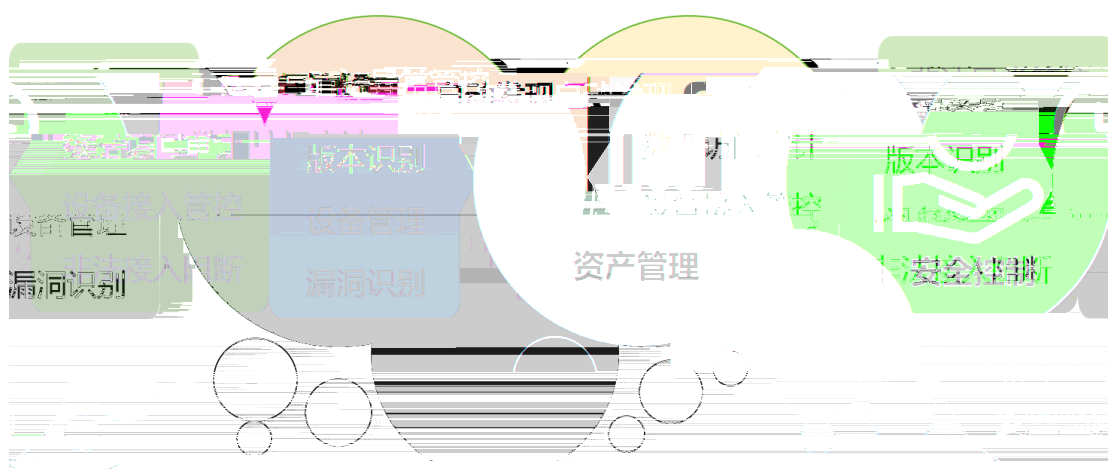
APP

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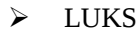
1. CNCF

CoreDNS

2019	1	24	-	Kubernetes	Prometheus	Cloud
NativeComputingFoundation	CNCF			CoreDNS	2019	
Kubernetes	Prometheus	Envoy	4			
				CNCF	CoreDNS	
12		35		15		Kubernetes
CoreDNS	Go			DNS		Apache
2				Kubernetes	DNS	DNS
					Prometheus	
		DNS	CoreDNS	Kubernetes	Kubernetes	
etcd		etcd				
		Kubernetes			Kubernetes	1.13
CoreDNS			DNS		AWS	
		AWS Route53	etcd	-	Google Cloud DNS	
	Miek Gieben	2016	3		Google	
CoreDNS			DNS			
DNS	-	etcd	Consul	Kubernetes	CoreDNS	2017
Sandbox	2018	2				100
			Kubernetes	-	Bose	Hellofresh
SoundCloud	Trainline	Zalando				Skyscanner



	RancherOS	initrd	xz	RancherOS
xz			xz	initrd ISO
	v1.5.0	initrd	gzip	
		system-docker		cloud-init



LUKS		RancherOS
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WiFi	4G	
Intel	micro PC	RancherOS WiFi 4G
	cloud-config	



	Hyper-V	RancherOS
custom build		
docker-machine	boot from ISO	RancherOS
Azure Cloud		



	docker engine	
	RancherOS	user docker v1.5.0
ROS CLI	user docker engine	docker ROOTFS
	console	docker



	VMware	
RancherOS	Vmware	
docker-machine	boot from ISO	VMDK



	ARM	
Rancher	ARM	RancherOS ARM
	RPi	ARM initrd vmlinuz
iPXE	RancherOS	ARM64 v1.5.0 ARM



RancherOS

RancherOS

RancherOS

RancherOS



docker engine

RancherOS

docker engine

docker engine

RancherOS

docker engine

RancherOS

docker 17.03.2

USER_DOCKER_VERSION=17.03.2 make release



console

RancherOS

console

ubuntu

alpine

centos

default console

busybox

console

console

alpine console

\$ OS_CONSOLE=alpine make release.

4. NFV Istio 1.1

Istio 1.0

Mesh

Istio

Kubernetes

Kubernetes

Pod

Istio

Kubernetes

NFV

Kubernetes

Istio

5G

NFV

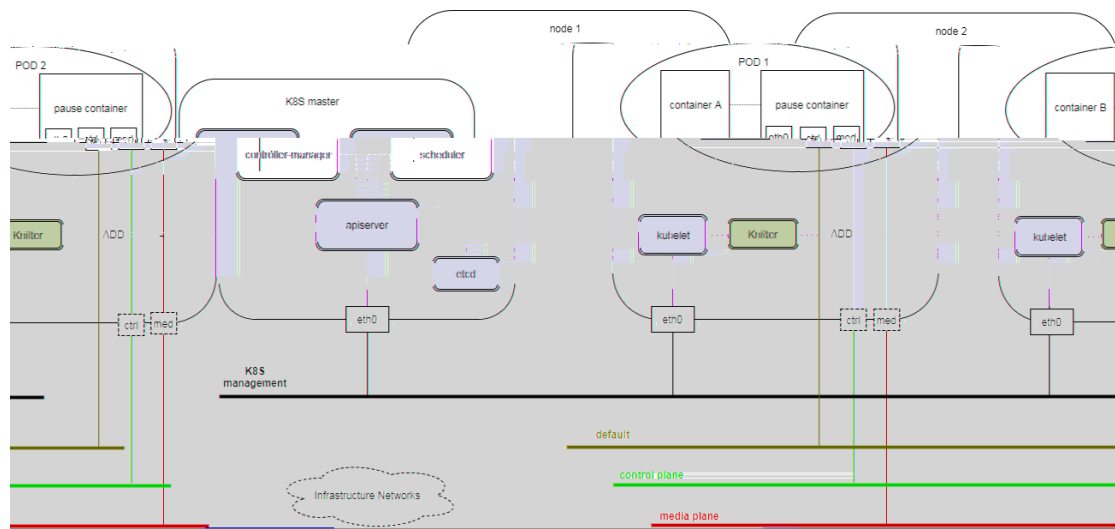
Kubernetes

Kubernetes

Knitter

Knitter

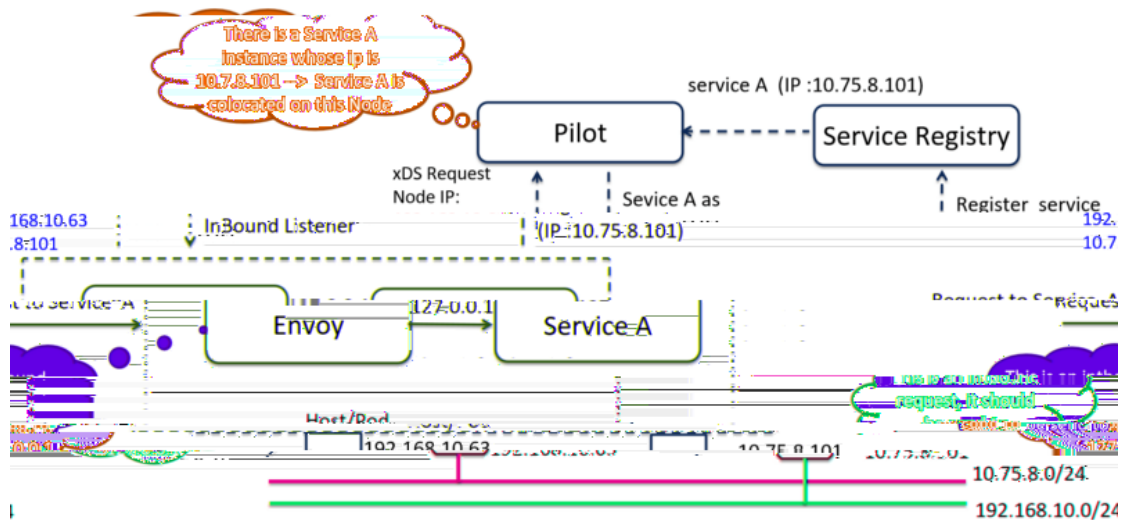
Kubernetes



Istio

Pilot

Outbound Listener



- | | | | | | |
|----|---------------|------------------|-------|--------------|-----------------|
| 1) | Envoy | | | 10.75.8.0/24 | 192.168.10.0/24 |
| 2) | Service A | Service Registry | | | IP |
| | 10.75.8.101 | | | | |
| | Envoy | | | | |
| 1) | Envoy | xDS | Pilot | | |
| 2) | Envoy | xDS | | | IP |
| | 192.168.10.63 | 10.75.8.101 | | | |
| 3) | Pilot | xDS | Envoy | IP | 192.168.10.63 |

10.75.8.101

- 4) Pilot Envoy IP Service Registry Service Instance IP
- 5) Service A IP 10.75.8.101 IP Pilot
- Service A Instance Service A Inbound Listener

- 1) 10.75.8.101 downstream Envoy
- 2) Envoy 15001 Service A
- 3) Envoy Pilot Service A Inbound Listener
- Listener Service A Inbound Cluster IP 127.0.0.1
- 4) Envoy 127.0.0.1 Service A
- PR Istio 1 Istio 1.1 Release

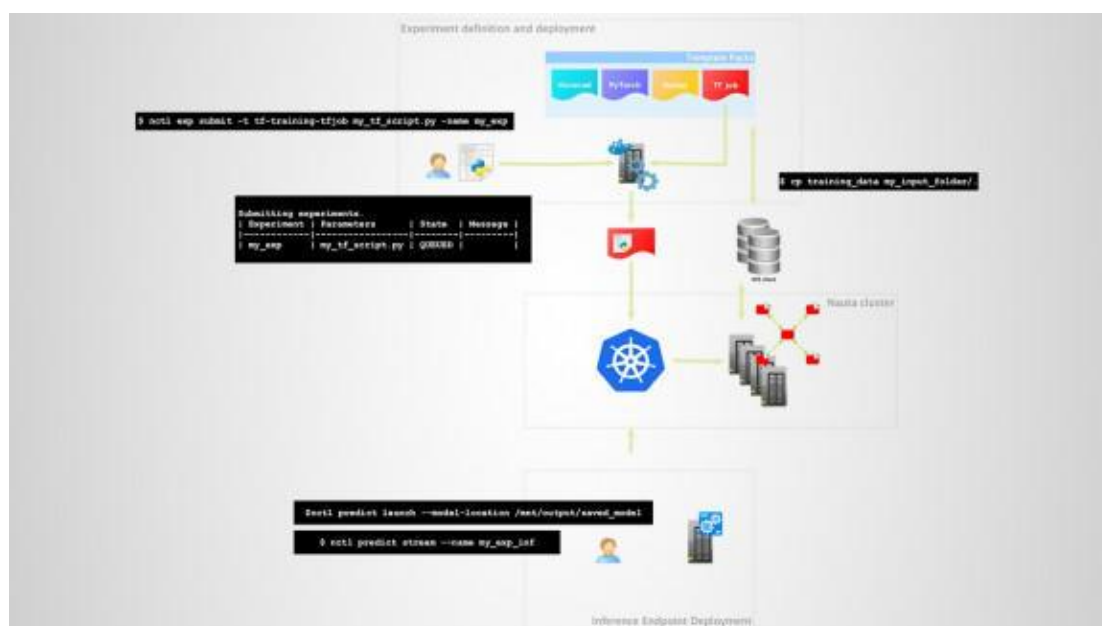
5. Intel Nauta

Intel Nauta Kubernetes Docker

MXNet TensorFlow PyTorch

Intel Xeon CPU

TensorBoard Nauta Web



Nauta

Nauta

Kubernetes

Nauta

Kubernetes

Docker

11

Kubeflow

Kubernetes

Azure Kubernetes

Linux

LF

Acumos AI

Docker

Kubernetes

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Microsoft 365

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GDPR

Microsoft 365 E5

Microsoft 365

Office 365

Windows 10

EMS

+

Microsoft 365

Microsoft

Windows Defender

ATP

Azure

ATP

Office 365 ATP

Microsoft Cloud App

Azure Active Directory

3. USB-C

USB

USB

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USB-C

IT

USB

USB-C

USB-IF

Jeff Ravencraft

USB-C

USB

4. NSA

GHIDRA

NSA

GHIDRA

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GitHub

NSA

GHIDRA

Windows

Mac

Linux

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1.**1.1 Onapsis Virtual Forge**

1	16	Onapsis	Virtual Forge	Onapsis
		SAP	SAP	
		SAP		
		Virtual Forge	SAP	

2.**2.1 OneLogin 1000 D**

1	10	OneLogin	CRV	3	1000	D	OneLogin
					APP		