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CoreDNS      CNCF      OpenShift      Kubernetes

Federation V2

RancherOS v1.5.0

wifi 4G      Hyper-V      Istio 1.1

NFV      Intel      Nauta

"      "      1.0

" App      "

Microsoft 365

Adobe      Experience Manager      NSA

GHIDRA      USB-C

USB

1      1      SAP

Onapsis      SAP

Virtual Forge      OneLogin

1000      D

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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  
1 24 BigCommerce  
GCP SaaS  
BigCommerce GCP  
BigCommerce Brian Dhatt Google  
Dhatt "  
Google "  
Dhatt 4 BigCommerce 90  
GCP 81

### 4. Azure

4.1 Azure  
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Azure Azure  
cashierless

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Blink

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Blink 2015 Flink

Flink Data Artisans Flink

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125% Netflix Uber Flink



IBM

## 6.

6.1 IPv6 QQ IPv6  
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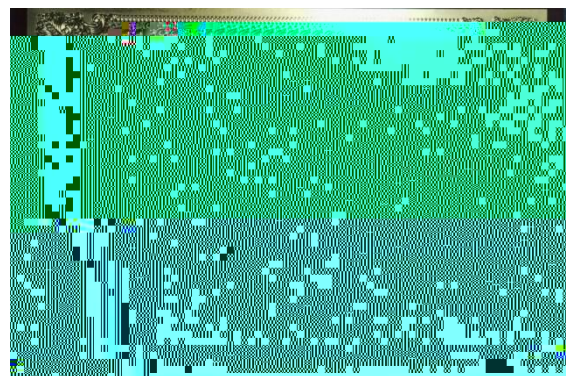
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### 2.1 •SD-WAN

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SD-WAN2.0

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•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

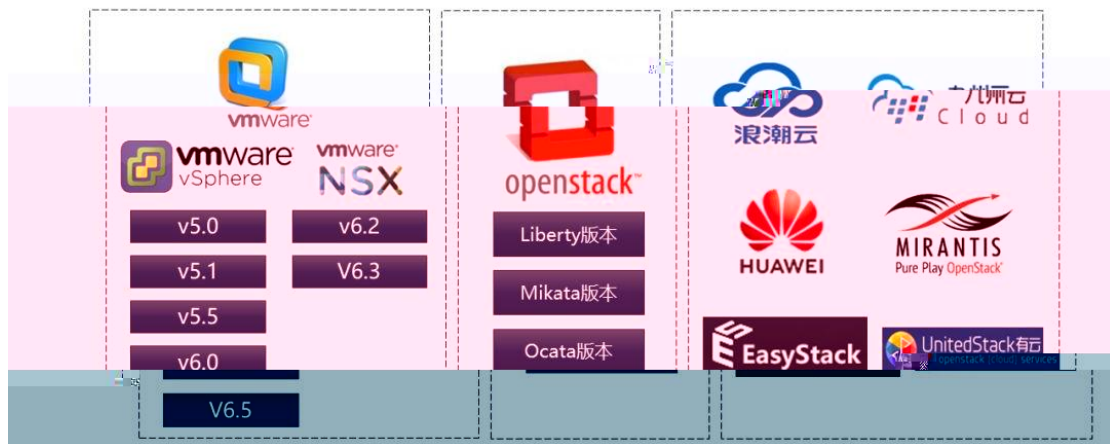
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### 可适配多种云环境



VMware Ready

CSA

CSA

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**APP**

APP

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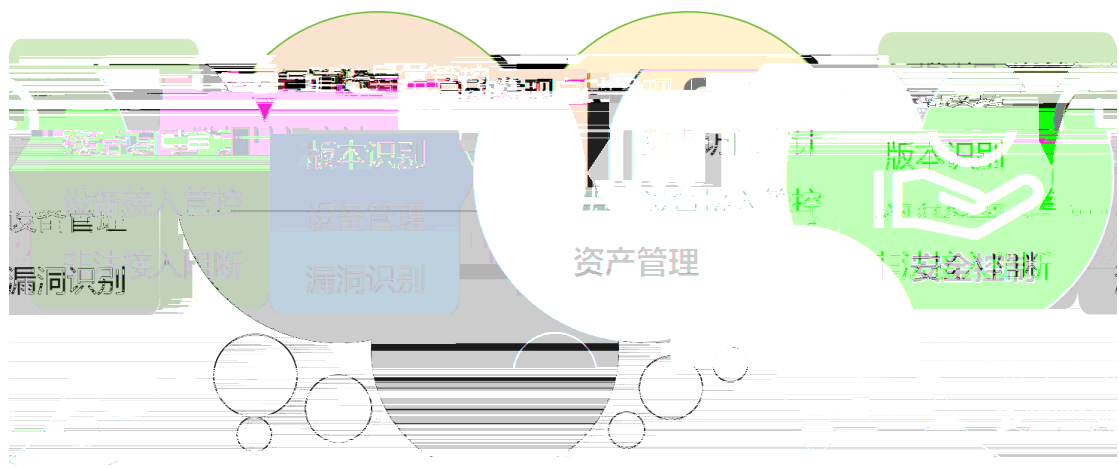
APP

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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 Cloud Native  
 Sandbox 2018 2 100 16  
 Kubernetes - Bose Hellofresh Skyscanner  
 SoundCloud Trainline Zalando



- - RancherOS initrd xz RancherOS
  - xz xz initrd ISO
  - v1.5.0 initrd gzip
  - system-docker cloud-init
  
- LUKS
  - LUKS RancherOS
  
- WiFi 4G
  - Intel micro PC RancherOS WiFi 4G
  - cloud-config
  
- Hyper-V
  - 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

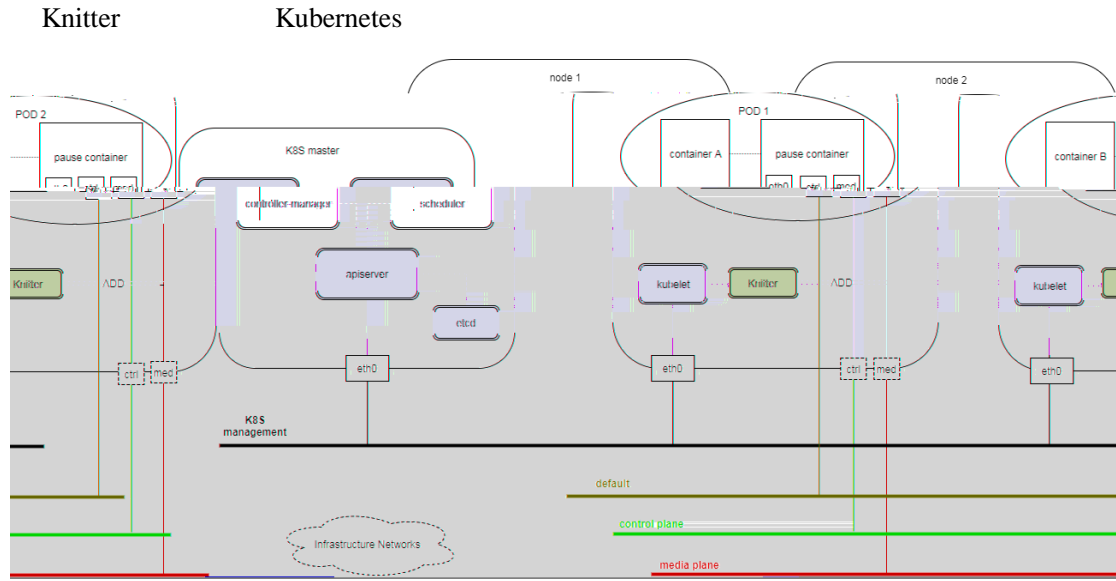
5G

NFV

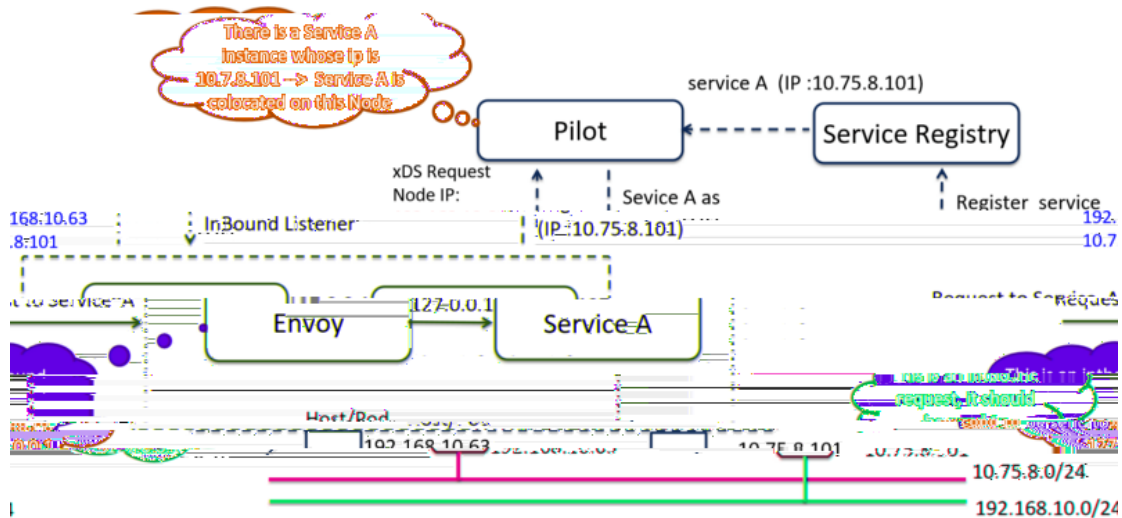
Kubernetes

Kubernetes

Knitter



Istio Pilot Outbound Listener



- 1) Envoy 10.75.8.0/24 192.168.10.0/24
- 2) Service A 10.75.8.101 Service Registry IP
- 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

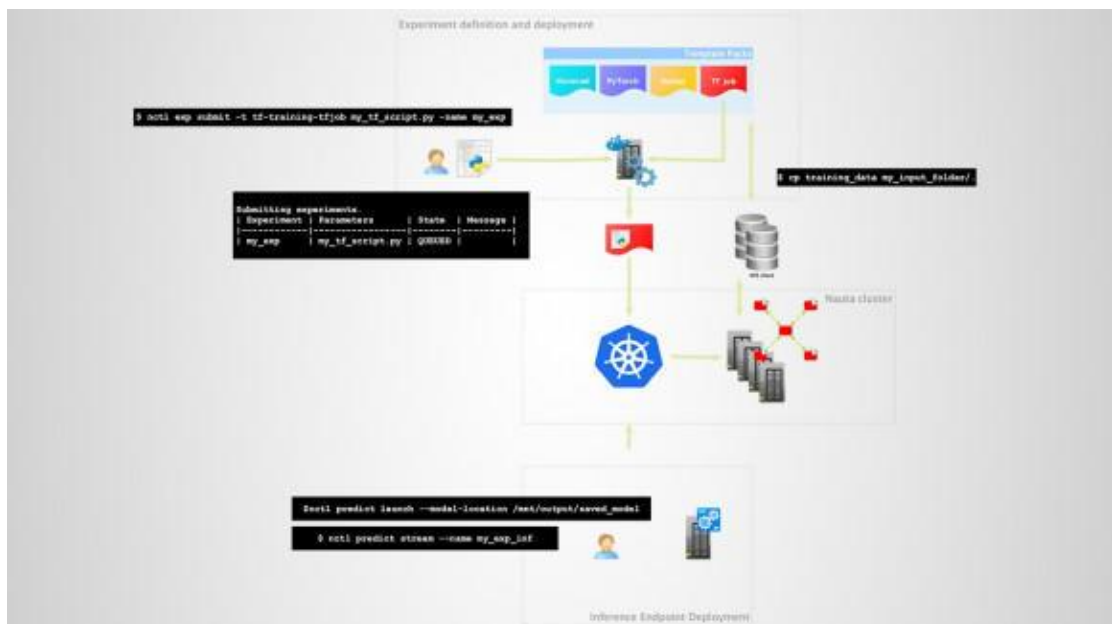
## 5. Intel Nauta

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

**1.**

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**2.**

## Microsoft 365

2019 2 1

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

USB

USB-IF

USB-C

USB-C

IT

USB

USB-C

USB-IF

Jeff Ravencraft

USB-C

USB

### 4. NSA

### GHIDRA

NSA

GHIDRA

3

GitHub

NSA

GHIDRA

Windows

Mac

Linux

### 5.

### 1.0

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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		