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ϵ ʌ ٮ ѽ ϵ ⊦ ٮ ˜ ض ׀ Ţ Ḇ ק

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ק ӟ ΐ ׀ ϵ ⊦ ٮ ˜ ק ⊦ ᒪ ׀ Ţ ѵ ~ ϵ

ʌ Ψ . . ק ʕ . ضِ

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2017 8 31

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Ɛ ŋ˗

1.1 AWS ɣ ᴘ ƨ ᴍ ᴠ ˜ ᴝ CNCF

1.2 ˚ AWS Ⱶ ̀Ẽ̃

1.3 Ь Ɛ Ⱶ̤̈ ƀ ᴸ Ⱶ

1.4 ⁘ Ⱶ ᶎ ᶟ ᵒᵒ ᶎ

1.5 ˚ Ⱶ ᶎ Ḥ

Ɛ˗

2.1 Ɑ Ḥ ŋ Ɛ Ⱶ

2.2 Ɛ ₹ . Ⱶ

2.3 ᶹ Ḃ ṵ ᴸ

5.7 ɛ ŭ “ ”
5.8 ɛ
ʊ ɛ˺ 9
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1.1 ɢ ŭ
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6.1 ŋ ġ...
6.2 ... Ɛ ġ Ɛ

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ŭ ĺ ↑ ŭ Ɗρ ض

Ғ ŭ ѽ ĺ ˆ G №

Ɛ ŋ Ηυ Ð 21

1. ŋ Ɛ˜ Respond Software SOC ¯. °° ƈ 1200 ˝Ḥ
2. ŋ Ɛ˜ Dragos A 1000 ˝Ḥ
3. ѽ ٧ ǂ ف SSL ʒ ⊢

϶ϳ ρ Ɛ + ŋ¯ ƥ

Ɛ ϰ ϳ¯

1. AWS Ɛ ŋ¯

1.1 AWS ɣ Ψ 2 ʍ ѵ ~ ϶ CNCF

˚ Ⱶ `E˜ AWS ч ϶ ضي ĵ شي ѽ `E ¨ Ɛ Ţ ѵ Ɛ ∤ Ǔ ғ

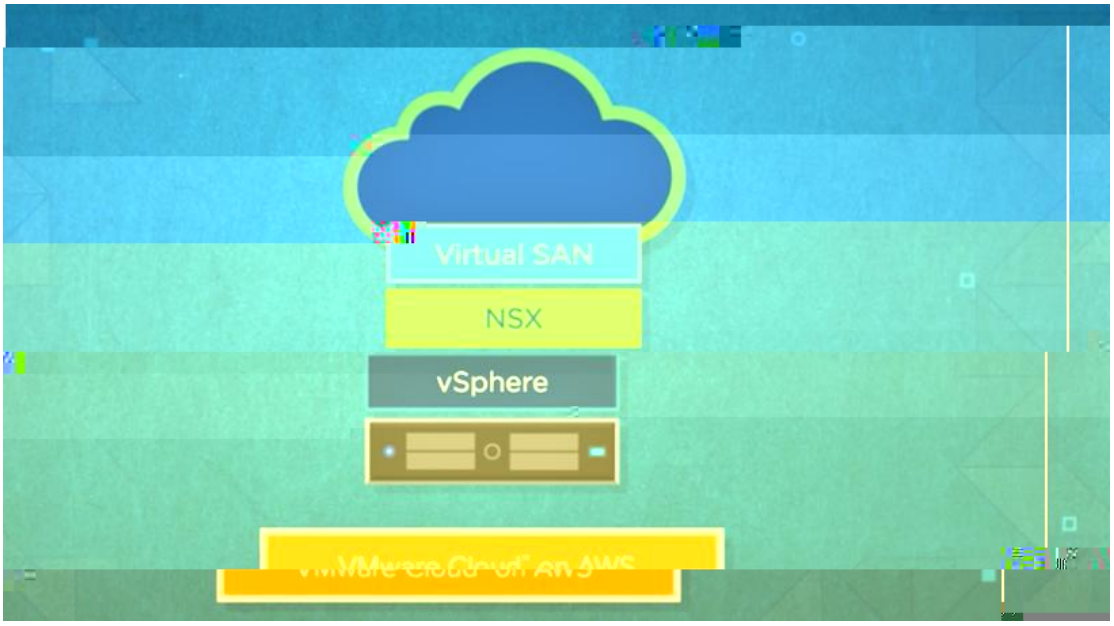
ɣ Ψ 2 ʍ ѵ ~ ϶ CNCF ƀ ч Ψ 2 № AWS Ɛ ◖

Adrian Cockcroft ѵ ~ CNCF ʜ Ψ AWS Ғ Arun Gupta ϒ

ė ƀ ¨ ƀ

╠˚ AWS Azure Ɛ ˜ IBM Bluemix ė Ɛ CNCF Ψ

2



ضي Ⱶ h AWS يج ضر ٧ ᴸ ɢ 2018 h ŋ VMware Cloud on AWS VMware Cloud Foundation ᴸ ¨Ḥ ą ɪ ıı VMware ĺ ì □ ≠ AWS п ƚ ´ № IoT ŋ ¯ Ⱶ

1.4 AWS⁛ Amazon Macie Ⱶ ڪ ڍ ڤ ڄ

AWS ⁛ Amazon Macie—— Ⱶ ضي ≠ ڪ ڍ ᴸ ↑ ɣ ĭ Amazon S3 Ũ ضي AWS S3 ˜ Ţ Amazon Macie ≠ ᴸ ŭ № ≠ ɷ ᴍ Ḥ ɣ ĭ ƀ Ḥ ٧ Ḥ يج Macie Ⱶ ƀ ¯ ¯ h ŋ فج ŭ Amazon Macie ضي ˚ Ṝ ì AWS Ũ Ⱶ

1.5 ˚ AWS Ⱶ ڪ Ḥ

يج ˋĒ˜ ɪ ıı ৩ 180 ʁ ≠ ʁ ɷ Ḥ ˋĒ˜ ⁛ ʁ ≠ ʁ ڠ يج FBI Ḥ Ţ´ ƈ O ضر يخ ₣ № Ψ ŋ˝ ڠ № ά ˚ ´ ƈ ˚ ڠ ᴍ Ḥ ŋ ˋĒ˜ UpGuard ضي ˜ ì Ḡ ˚ Ⱶ AWS ⁛ ŭ ৩ № U Й ৩ ˚ ∞ ˚ Election Systems &Software ˋĒ˜ ˋĒ˜ ч 42 ɷ ᴸ ڠ Ⱶ

2. GOOGLE Ɛ˗

2.1 Ƣ Ḥ ŋ Titan Ɛ Ⱶ

Ƣ Titan ɐ Ɛ Ḥ ŋ ʐ Titan

ч Titan Ţ Ⱶ ڪ ɻ ١ Titan ɒ

Ḡ ɒ ŭ к ٧ ˗ Ꮋ Titan ڪ Ƣ˗

↑ ˋE˜ ض Ɛ ش м ش ˋE˜ Gartner ╠ ᵀ

ش 500 ¨Ḥ

2.2 Ɛ ₣ . Ⱶ

₣ Ⱶ Ḃ Ь D ≠ Ь Ɛ D

ч ч ᴸ ˋE ˝ Ɛ Ⱶ ᴸ ڍ ₣ ɛ ‰ Ḡ ٧ ڎ

33 Ⱶ № ч ڎ “ ” ɻ “ ‰ ” ɳ ≠ ỉ Ţ ˜

D ‰ ↕ ч ˢ Ь ɛ

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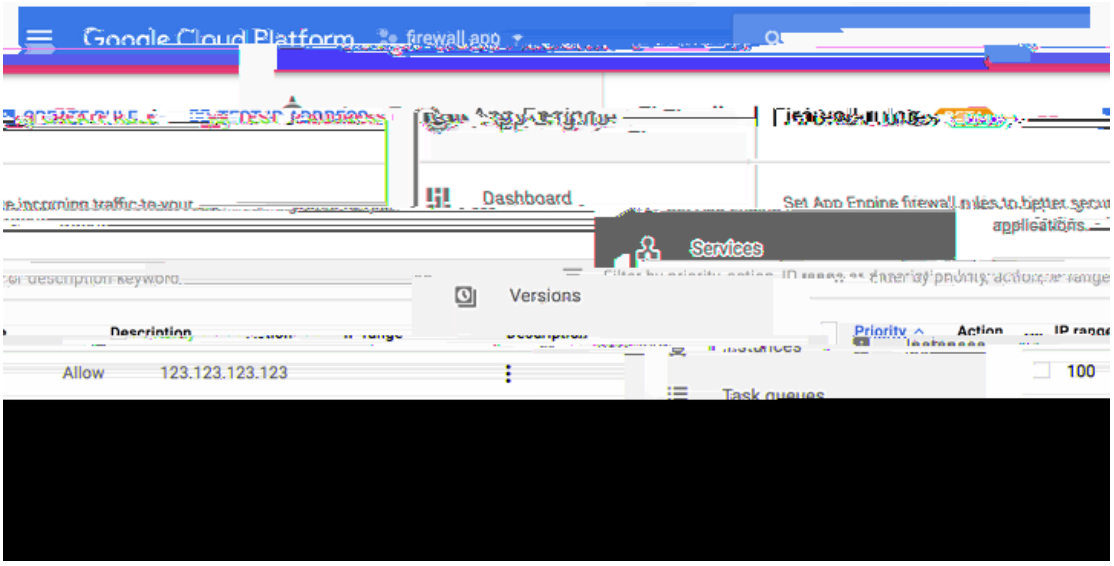
ɻ ‰ ɳ ١ ≠ ض HTTP 50 № β ɻ ‰ ơ g

ŋ ơ g ч 5,401kbps ‰ ơ g ч 3223kbps

2.3 Google ٩ App Engine Ḃ ŭ ᴸ IP

ч ڎ Ḃ ŭ ɻ ϩ ١ Ș ↑ App Engine ᴸ Google ₣

ڎ ŋ ᴡ



ŭ ıˆ ɣ Ṣ ↑ App Engine ƨ API Ɛ ˜ Google Cloud Console gcloud ث ɒ ˊ ↕ ɣ ¨Ḥ IP ضي

↕ Й¸ ¨Ḥ p ƨˆ ɣ ƀ ₹

. ˋE˜ ṗ ƀ„ ƀ يج شي IP ˜

GAE ˋ ı p ´ IP ضي ɣ ˊ Ğ app Ь ˋ №

Ⱶ DDoS

Ь ỉ ɾ Azure Ɛ Ⱶ ỉ Ʇ´ Ⱶ DocumentDB ɣ ỉ ỉ ɾ Ⱶ (ᵖ

4.3 Ḥ ƀ Ɛ‴ ƀ ˜ ▯ ヿ Ţ ヿ ‴ Ɛ ﺵ

Ӣ ヿ Ḥ ƀ Ɛ ‴ ҽ ŭ ѱ ĭ ‴ ƀ ˜ ▯

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ɢ ŭ Ɛ ▯ ´ ˜ h “ ” Ī

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4.5 Ɛ ƀ ‴ ƀ

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7 ˜ ŭ ƀ ´ ʊ ѵ ƀ ﻱ ʒ ˜ ▯ ƃ

4.6 Ɛ ₣ ѵ ▬

Ɛ ₣ ѵ ═ Ḡ ˜ ɣ ɾ Ⱬ ҁ

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w ヿ ą ṗ Ӣ ∫ ﺽ ƌ Ӡ ѵ

ʉ ⁘ D № ŭ

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5.1 Ɛ ŭ ŭ ⅞ ŭ

Ɛ ŭ №ˌ ˥ ŭ ŭ

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Ɛ Ⱶ ɣ ᵒᵒ ج w ϖ ˥ ش Ţ ο ʒ ˜ ↕ ض G

ɣ ڍ ʒ ⇔ ”

- Ɛ ﻝ Ạ ᵗ ʒ ⇔ ض
- Ɛ ˥ ŭ №ˌ ᴇ Ṿ g ŭ ˊ ˜
- Ɛ ⇔ ʒ ⇔ ʒ Ẽ ⇔ ʒ

5.2 Ɛ DevOps ŭ Ð

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5.7 ɛ ŭ “ ”

ɛ ₹ ŋ ŋ Ḡ ᴅ ɣ ŋ

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5.8 ɛ DDoS

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جف ض ɔ ɷ L ض Ţ ~

L L

غ . جف ضٍ ƀ ʏ U ҥ

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Ţ W ʟ ɷ ɻ ˝Ḥ جغ ч ˛ ɻ ɷ ɻ ˝Ḥ

2. Easystack˗

2.1 EasyStack ₹ ŋ ɷ AI Ɛ ˜

. ‹ ŭ ˋẼ˜ ₹ ŋ ɷ ⍰ ė

¬ Ɛ ˜ . ϒ ʒ ○ ʒ

3. ˚ Ḥ

3.1 ˚ Ḥ ... ˜ ↑ ʒ Ŭ

˚ Ḥ ... ˜ ... ˜ ᒪ ĭ Ⱶ

ضي ᒪ ... ˜ ʒ ... ˚ Ḥ Ӟ ضي ... ʒ ᔓ Ŭ ʒ

... ᕒ ĭ №... ʒ ضي ≠ ᕒ ƀ

˚ Ḥ ⇔ ↑ ʒ ... ᵒᵒ ʒ h ĭ r. ŋ Ŭ

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4.1 ₹ Ɛ ŋ ▬

ضي 6 ŋ IP ظ SReXperts . ، ... ... ˚ ₹

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... ƀ Ɛ ŋ ▬ . . ᕒ D ᵒᵒ ج . ч ... ŋ ʒ ɜ

ضي ŋ Ţ ~ ᔓ Nuage È˜ ˚ Nuage VSS ŋ Ⱶ

˜ ~ ŋ ٢ ٧

4.2 ɐW ́E **Techworld 2017** Ψ

2017 8 4 ́E Techworld 2017 Ψ ضي ، Ƃ ɐ

Ψ ᔓ ŋ Ŭ ᒐ ŋ ض

ʒ ضي Ţ ĵ ƀ ч ᒐ “

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Ð oS Ð Ð

8. Fortinet

8.1 Fortinet FortiGe . AWS VMware Cloud

Fortinet FortiGate AWS VMware Cloud FortiGate VMware AWS VMware Cloud FortiGate AWS VMware Cloud

8.2 Fortinet . №

Fortinet SaaS FortiCloud FortiCloud version 3.2 . SaaS Fortinet FortiGate FortiAP FortiSwitch Granular access controls application usage policies sandbox integration

1. NeuVector

VIC vSphere Integrated Containers VMware

NeuVector VIC VIC NeuVector VIC

- VIC
- 7

- ﺽﻲ VIC Docker Ꮒ Docker ˜ ŋ
- ﺽﻲ VIC Ţ ﻙ
- ﻙ ɣ Ꮒ ʔ ɣ ˆ ɪ ˆ
- ᒪ Ꮒ ŋ ɣ

2. Aqua

2.1 Manifesto ﻉ ﻝ ﻓﻡ

Manifesto ɢ ﺽﻲ ﻙ ˝E Ũ˝Ḥ Í ˝Ḥ ˆ ʏ Ḡ ˜ Ð Ḥ

Ӟ ʏ ą ˢ Ḥ ⇔ ˗ Í h Kubernetes ѵ˝Ḥ

2.2 Kubetnetes Í

ﺽﻲ Kubernetes ˜ ŋ Ӟ ԓ ο ʒ ˜ ԓ

ˋE ⁞ ŋ ≠ CIS Center for Internet Security ﺽﻲ ₣ ২

Kubernetes Benchmark ‰ ﻙ ŋ ﻝ ﺩ Aqua ʏ CIS ₣ K8s Benchmark ƀ ԓ

₣ ২ ŋ Í Kube-bench

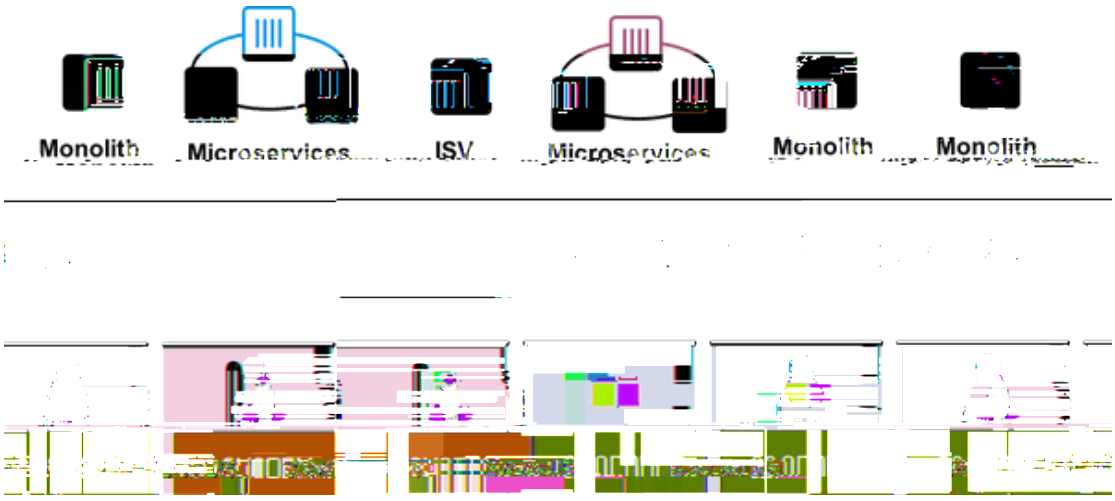
Aqua ¨ Liz Rice Í ą Go Ð ↕ ˋl ɢ YAML

ˆ Ӟ JSON Ḃ ą ˆ ɪ ˗ Í ﺽﻲ

ĸ ⊢ U ২ ᑭ Ű Kubernetes ك Ӟ Ψ ʒ ѵ ˴

ᴅ K8s ﻉ ƀ ŋ ᒪ Ð

3. Docker Enterprise Edition Ű ο ʒ EE 17.06



Docker ο ʒ EE 17.06 ´ Ƈ ɢ Windows Linux ɣ Linux ﻗﻤ

CaaS ɦ ɲ ƛ ˜ ο ʒ ... Ţ ο ʒ ´ ɢ

Linux ɣ Windows ᴰ ɣ ⊦ ɢ x86 ⊦ ﻙ ﻗﻤ ɣ ̀E ¨ Ɛ Docker

EE ˢ ... ⌡ ˬ ˜ Ţ ˆ ʟ ɣ ʟ

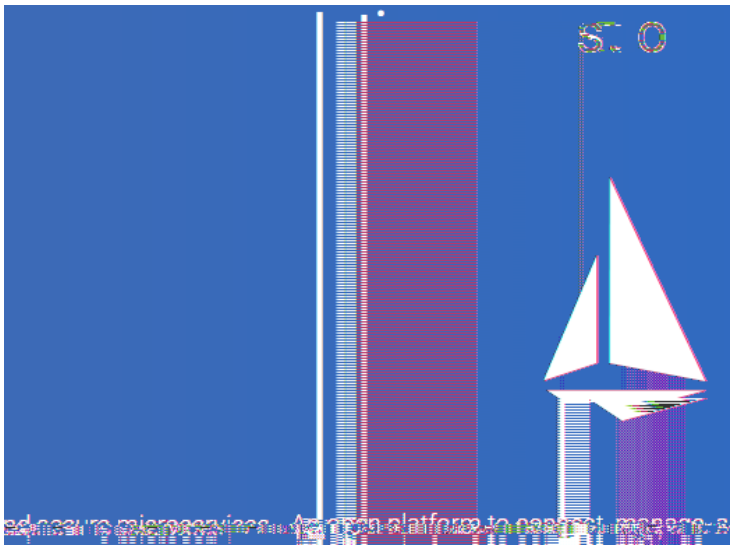
ɣ ʏ ĭ ˫ . ƀ ʟ

Docker EE ﺽ ﺿ ɣ Ɇ ; Windows Linux ɣ ﻗﻤ ɳ ۊ ═

ɳ ɦ ʍ ´

- Docker Windows ﻙ ﺙﺎ ´ يج ̋E overlay networking
- ą overlay networking Windows ɣ Linux ɾ ...
- ﺿ Windows Linux ɣ ﻗﻤ ...

4. Istio ⊦ ŋ



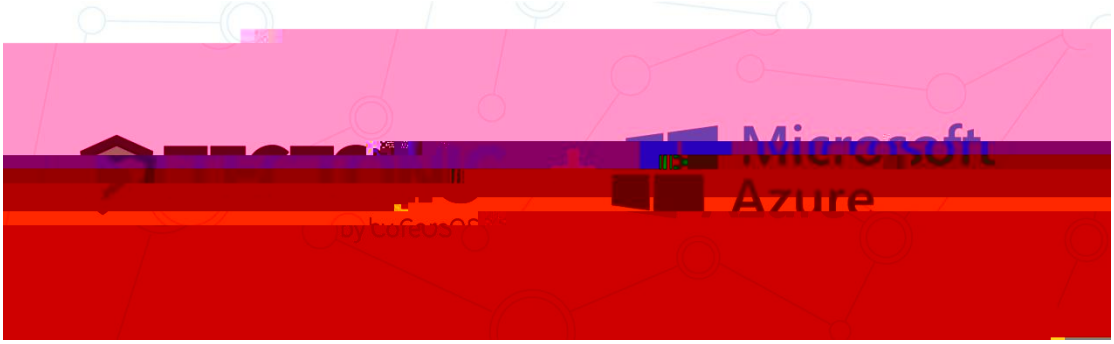
Istio ɷ ˜ ʟ ᴝ ɣ Ḡ ⊦ Istio

⊦ ɥ ɣ ... ˢ ƀ ⊦ ɳ

- HTTP gRPC ɣ TCP Ḥ ˫
- ą ɣ ↕ ɣ ˜ ɥ ʟ
- ɷ ˆ ɣ API ʟ ʟ ɣ
- ˫ ɣ ṗ ɣ ∓
- Ţ ⊦ ɥ ĭ ʍ Ḡ ⊦ ⌡ ⊦ ŋ ʍ

Istio ╠╕ Kubernetes ˜ ⅞ضي Ь ƙ Ɛ Mesos غ ٱ ɾ ˜

5. CoreOS Tectonic 1.7.1 ضي Azure Kubernetes



Ɛ غ . ٱ ২ ০ ʒ IT ƀ Kubernetes

ч ڪ h L ٱ CoreOS غ ƀ ০ ʒ Kubernetes

= CoreOS Tectonic ⌠ Azure ˜ ץ ضي Ɛ ˜ Kubernetes ƀ

6. ǂ OpenShift ڪ ˜ 3.6 ا Ɛ Ḡ غ

6.1 ŋ غ..

- PCI DSS°° ج ↑ ' ٱ Ũ D Ḥ ا ০ ʒ ২ PCI DSS ν ڏ OpenShift ڪ ˜ ▯ ২ ɾ ا ضي = غج
- Secrets ٧ w غ ″E O U˜ Ũ Secrets ٧ OpenShift 3.6 ч ˜ ٧ ২ O ɢ Ţ يج ″E ض Ḡ ضي ⁛ ƌ Ӟ
- ٦ ƀ▯ ץ ٱ غ L U ٦ ضي ᴸ ⊢ ▯ = ⁛

6.2 .. Ɛ غ Ɛ

- ⊢ Ţ : Broker غ ⊢ ↑ ᴸ غ ƀ ضي Ţ `E Ɛ ⊢ ɾ ا OpenShift
- OpenShift Ţ : ↑ ⊢ OpenShift

ϒ ﺽﻲ OpenShift Ţ ﺝﻛ ⊢

- Ansible Playbook Ţ : ˜Ḥ ą Ansible Playbook ﺽﻲ OpenShift

  ⊢ ﺽﻲ ⊢ OpenShift ṕ ỉ

  ϧ ﺽﺭ ᴅ ˋE Ɛ

- Gluster Ũ ∕ ﺝﻛ Ũ ч OpenShift ˝E ⊤ ᴸ Ũ ᴸ Ũ

  w ϒ ĭ ﺽﻲ OpenShift Δ ᴸ˜ ą ȷ Ũ

Ɲ ŋ ﺓﻩ ﺝ ĭ

1. VMWare ŭ Ḡ ο ʒ AppDefense ▁

VMWare ↨ ↨ ŭ ↻ AppDefense ﺽﻲ VMware vSphere ɨ Ɛ Ѝ

ᴸ Ḡ ═ 8 28 Palo Alto AppDefense ﺽﻲ Ţ

ŋ ═ ﻗﻤ Ḡ ο ʒ ỉ

ᴸ Đρ ~˜ ˆ ο ʒ AppDefense ᴸ ч ˫

ǯ Đρ VMWare AppDefense “ intent-based security ” h vShpere Ţ ˜

ᵭ Ɛ Ѝ “ ” ϒ ˆ ϒ ǯ App ч

ĥ˫ AppDefense ỉ ⌠ hypervisor Ḡ ɨ vSphere ь VMware NSX ↿ ᵭ

˫ ǯ ´ ο ʒ ! ŭ ɣ ﺵﺡ ═ ˆ ϛ ŋ ﻑﺡ ˆ

ɨ˫ ʐ ь ŭ ↿ ᵭ ˆ Ḡ ο ʒ ŋ

2. Google ₹ Android 8.0 ≠

8 21 ŭ Android 8.0 Oreo ≠ Δ ﻕﺽ м

ϒ ŭ ŭ ɳˆ ₇ ɷ “ O ” ﺽﻲ ↿

Ţ Android 4.4 ↿ 16% ᴅ CEO ѽ ɛ

↿ ↿ ﺽﻲ ˊE ŋ ŭ ψ˜ ѽ 86% IOS

⌠ IOS 10 ↻ ₇ 7% ↿ ⌠ Android 7.0

Android 8.0 ŭ U ᵩ ↿ ↻ Treble ⅞ ᴸ ﺝ ŭ

ᵭ ь ↿ № ﺝ № ᴸ ﺝ ŭ

≠ ˥ ẇ ẋ ẇ ᒪ Ụ˜ ≠ Ụ˜ β ẋ WiFi

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20 ة . . Ò ٧ ؛؛ ؤ خش ŭ 4000 ة Ḥ ؤ

ً 300kbit ٹ خش ч 1.1kbps “ ً ” ٧

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Ḥ ؛؛ ∩ ضي Ḥ ؛؛ Ψ غج ч ضي Ḥ

Ѝ ₇ ⌠ к ᵥ ∩ ч ѵ Ḥ Ψ ˜ Ţ يج

⅞ ˜ Л ⅞ ҥ Ţ يج ضي ؛؛ 2 . Ţ يج 2015 ضي

؛؛ ˜ ⌠ ২ 1010 .

5. Cylance ŭ ٦ ٹ ج

Cylance شي ŭ ٦ ٹ ج Cylance PROTECT Home

ً ” Edition “ Ø

7. ESET

ESET Industroyer IDA Pro IDAPython OPC Data Access Havex RAT Win32/Industroyer

1. Respond Software SOC 1200

Respond Software 1200 SOC

3. SSL

DigiCert SSL 2018 Q3 9.5 30% Chrome 10 SSL SSL DigiCert SSL Comodo IdenTrust 14% 5.5% SSL DigiCert 2.2% 0.9% DigiCert IoT SSL

4. Flashpoint 2800

Flashpoint 2800 Flashpoint BRI Flashpoint Flashpoint

Geogian Partner Greycroft Partners

Bloomberge Beta Cisco Investments