使用Intersight Kubernetes服務配置Kubernetes群 集

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簡介

本文檔介紹使用Cisco Intersight™ Kubernetes Service(IKS)從Cisco Intersight(SaaS)調配生產級 Kubernetes群集的配置。

背景資訊

最近,Kubernetes已成為一種事實上的貨櫃管理工具,因為組織傾向於使用貨櫃化解決方案在應用 現代化方面投入更多資金。藉助Kubernetes,開發團隊可以輕鬆部署、管理和擴展其容器化應用 ,使創新更易於持續交付管道獲取。

但是,Kubernetes也帶來了操作挑戰,因為它需要時間和技術專業知識來安裝和配置。 安裝Kubernetes和所需的不同軟體元件、建立集群、配置儲存、網路和安全以及操作(如升級、更 新和修補關鍵安全漏洞)都需要持續大量的人力資本投資。

輸入IKS,這是一個統包SaaS解決方案,用於管理任何地方一致的生產級Kubernetes。要瞭解有關 IKS功能的詳細資訊,請在此處檢視<u>此連結</u>。

解決方案概述

對於本文檔而言,我們的想法是希望展示IKS與運行VMware ESXi和vCenter的內部基礎架構無縫整 合的能力。

只需按一下幾下,即可在VMware基礎架構上部署生產級Kubernetes群集。

但是,要做到這一點,您必須將本地vCenter與Intersight(稱為「聲稱目標」)整合,這裡的目標 是vCenter。

您需要一個Cisco Intersight Assist Virtual Appliance,該裝置可幫助將終端目標新增到Cisco Intersight。您可以使用思科官方網站上提供的載入程式OVA安裝Intersight Assist。

為限制本文檔的範圍,我們不會重點安裝Cisco Intersight Assist Virtual Appliance。但是,您可以 在這裡瞭解過<u>程</u>

必要條件

需求

思科建議您瞭解以下主題:

- Intersight帳戶:您需要有效的Cisco ID和Intersight帳戶。
 如果您沒有Cisco ID,可以在思科網站上建立Cisco ID。然後按一下Intersight上的Create an Account鏈接。
- Cisco Intersight Assist:Cisco Intersight Assist可幫助您將vCenter/ESXi作為終端目標新增到 Cisco Intersight。
- 連線:如果您的環境支援HTTP/S代理,則可以使用該代理將Cisco Intersight Assist裝置連線到 網際網路。或者,您必須開啟埠來訪問intersight URL。有關詳細的網路連線要求,請檢查<u>此連</u> <u>結</u>:
- 在Intersight上宣告它的vCenter憑據。

採用元件

本文件所述內容不限於特定軟體和硬體版本。

假設

因為部署Cisco Intersight裝置超出了本文檔的範圍。

我們假定您已經擁有一個正在使用的Intersight帳戶,並且已成功向其申請內部vCenter/Esxi。

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除(預設))的組態來啟動。如果您的網路運作中,請確保您瞭解任何指令可能造成的影響。

組態

步驟1.配置策略

策略允許簡化管理,因為它們可以將配置抽象為可重複使用的模板。

下面列出了需要配置的一些策略。請注意,所有這些策略都將在Intersight上的Configure >> Policies & Configure >> Pools部分下建立。

您還可以在每個螢幕截圖頂部看到策略的路徑,如下所示。

在ESXi主機上啟動時,此IP池將用於控制節點和輔助節點虛擬機器上的IP地址。

≡	cisco Intersight	CONFIGURE > Pools > IP Pool	> Edit				🗘 🖬 234 🔺 42 🛛 🔿	r ¢ \$ 6		
	Virtualization	🔄 Progress			~~~	Step 2				
	Kubernetes	(1) General			20%	IPv4 Pool Network interf	Details face configuration data for IPv4			
×	CONFIGURE ^	Pv4 Pool Details			- Orige	interfaces.				
	Orchestration	Ĭ		Configure IPv4 Pool						
	Profiles	3 IPv6 Pool Details	1							13
	Templates			 Previously saved parameters cannot 	be changed. You ca	n find Cisco reco	mmendations at Help Center.			
	Policies			Configuration						
	Pools			Netmask *			Gateway *			
Ы				203.255.255.0			172.1.2.204			
	Overview						Secondary DNS			
				172.1.10.6			172.1.10.7			
	Plan									
	Placement			IP Blocks						
	More			From *			Size *			
٩	ADMIN ^			172.1.2.30			20		0 1-256	
	Targets									
	Software Repository									
		< Back								

在此定義用於Kubernetes集群內部網路的Pod和服務網路CIDR。

=	cisco Intersight	CONFIGURE > Policies > Network CIDR > KubeCIDR > Edit 🗘 🖪 234 y	▲42 🖸 🕫 6 🤍 🕲 ③
	Storage	Workload Optimizer is out of compliance, as the license usage or subscribed term has expired. To d added before the grace period ends.	ontinue with licensed features, ensure sufficient licenses are G
	Virtualization	🖂 Progress	Step 2
	Kubernetes		Policy Details
×	CONFIGURE ^		Ааа ромсу аетанз
	Orchestration	Policy Details Pod Network CIDR	Service CIDR
	Profiles	10.10.2.0/19	© <u>192.168.23.0/24</u>
	Templates		
	Policies		
	Pools		
\bowtie	OPTIMIZE ^		
	Overview		
	Plan		
	Placement		
		Cancer	

服務和網路CIDR

此策略定義您的NTP和DNS配置。

	cisco Intersight	CONFIGURE > Policies > Node	DS Configuration > KubeNodeOSConf > Edit	Q 🖪 234 🔺 42 🛛 🕫 47 6 Q, 🕲 🤇
	Storage	A E Progress		Sten 2
	Virtualization	à		Policy Details
	Kubernetes	General		Add policy details
×	CONFIGURE ^	Policy Details	Territoria h	naio pulku
	Orchestration		Asia/Calcutta	caas.lab.com ©
	Profiles			
	Templates		DNS Server *	NTP Server
	Policies		172.1.10.6	<u> </u>
	Pools			
\succeq	OPTIMIZE ^			
	Overview			
	Plan			
	Placement			
	More			
ē	ADMIN ^			
	Targets			
	Software Repository	< Back	Cancel	

NTP和DNS配置

使用此策略,可以為docker容器運行時定義代理配置。

=	cisco Intersight		CONFIGURE > Policies > Container Runtime > KubeContRunT > Edit			
	Storage		Workload Optimizer is out of comp	liance, as the license usage or subscribed term has expired. To continue with licensed feature	tures, ensure sufficient licenses are added b	efore the grace period ends. Go to Licensing
	Virtualization		E Progress			
	Kubernetes			Docker HTTP Proxy		
×	CONFIGURE A		General General	Protocol Hostname	me	Port
			Policy Details	http v © 172.1.10	10.21 ©	3128 🗍 🗘 🔍
	Orchestration		- rand belians			1 - 65535
	Profiles			Username o Password	ord 💿 O	
	Templates					
	Policies	I		Docker HTTPS Proxy		
	Pools			Protocol Hostname	me	Port
18/2				http v 0 172.1.10	10.21 ©	3128 🗍 💭
2	OPTIMIZE ^					1 - 65535
	Overview			Username o Passworr	ord @ a	
	Plan					
	Placement					
				Docker Daemon Bridge CIDR ©		
	More					
Q	ADMIN ^			Docker No Prozy		
	Targets			172.1.10.0/24 💿 💼		

Docker的代理配置

在此策略中,您將定義作為主節點和輔助節點部署的虛擬機器所需的配置。

Ξ	cisco Intersight	CONFIGURE > Policies > Virtua	Machine Infra Config 🗲 KubeVMInfraConfig 🗲 Edit	Q 🗖 234 🛦 42 🔯 🥵 🌚 🌀
	Storage	🔄 Progress	~~	Step 2
	Virtualization Kubernetes	General		Add policy details
×		Policy Details	Provider/Platform	
	Orchestration		vCenter	
	Profiles		Q Add Filter	3 items found 50 v per page 더 더 1 이 1 > > () ()
	Templates		Name	
	Policies		CaaS-Engg-CL	
	Pools		CasS-Engg-HX1	
Ľ	OPTIMIZE ^		CaaS-Engg-HX2	
	Overview			
	Plan		Datastore *	Resource Pool
	Placement		CaaS-LAB-HX1	V IKS-RPool
	More			Interface *
ē			vSphere Admin Passphrase *	© common CAAS-MGMT-AP ACI-KUBE-MGMT v
	Targets			

使用的虛擬機器配置

步驟2.配置配置檔案

一旦我們建立了上述策略,就可以將它們繫結到可以部署的配置檔案中。

使用策略和配置檔案部署配置將配置層抽象化,以便可以快速重複部署。

您可以複製此配置檔案,並在幾分鐘內對基礎策略進行少量或多次修改後建立一個新的配置檔案 ,只需手動過程所需的一小部分時間即可將其複製到一個或多個Kubernetes群集中。

在Name中鍵入Glve並設定Tags。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	Q 🖪 234 🔺 42 🛛 🖓 📢 🔍 🎯
	Storage	至 Progress	Step 1
	Kubernetes	General I	Name, Description, and KBs Version
×	CONFIGURE ^	2 Cluster Configuration	Organization *
	Orchestration	3 Control Plane Node Pool Configuration	CMS-CaaS-Eng-Lab
	Profiles	Worker Node Pools Configuration	Plushe Varia 4
	Templates	5 Add-ons Configuration	KubeK8sCL1 O
	Policies	 6 Summary	
	Pools		Set Tags
Ы	OPTIMIZE ^		
	Overview		Description
	Plan		
	Placement		<= 1024
	More		
Ō	ADMIN ^		
	Targets		

包含名稱和標籤的配置檔案配置

設定池、節點OS、網路CIDR策略。您還需要配置使用者ID和SSH金鑰(公共)。

其相應的私鑰將用於ssh到Master & Worker節點。

	cisco Intersight		CONFIGURE > Edit Kubernetes Cluster Pro	file > KubeK8sCL1 Q Q 6 Q	
	Storage Virtualization		 Progress General 	Step 2 Cluster Configuration Network, System, and SSH	
×	CONFIGURE ^ Orchestration		Cluster Configuration Control Plane Node Pool Configuration	IP Pool * ∰ Selected IP Pool KubeMgmtPool © ×	
	Profiles Templates Policies		Worker Node Pools Configuration Add-ons Configuration	Load Balancer Count * 1 099	
R	Pools OPTIMIZE ^		6 Summary	SSH User * SSH Public Key * iksadmin O ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNo' G	
	Overview Plan	l		Expand All DNS, NTP and Time Zone KubeNode0SConf	1
Ø	More ADMIN A			+ Network CIDR KubeCIDR + Trusted Registries (Optional Policy)	
	Targets Software Repository		< Back Close	+ Container Runtlime Policy (Optional Policy) S KubeContRunT (£

已分配策略的配置檔案配置

配置控制平面:可以定義控制平面上需要多少個主節點。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	다 🖬 234 🔺 42 🕑 📢 6 다. 😳
	Storage	œ Progress	Control Plane Node Configuration
	Virtualization	General	Desired Size *
	Kubernetes	Ĭ.	
×	CONFIGURE ^	Cluster Configuration	Min Size * Max Size *
	Orchestration	3 Control Plane Node Pool Configuration	
	Profiles	Worker Node Pools Configuration	Kubernetes Version *
	Templates	5 Add-ons Configuration	Selected Version KubeVersion ⊕ ×
	Policies	6 Summary	IP Pool *
	Pools		f Selected IP Pool KubeMgmtPool 💿 ×
\bowtie	OPTIMIZE ^		Kubernetes Labels
	Overview		Key Value
	Plan		Name © CaaSKubeM © +
	Placement		
	More		Virtual Machine Infrastructure Configuration *
ø	ADMIN ^		
	Targets		Wruar Machine Instance Type * If Selected Instance Type KubeVMInstType
	Software Repository	K Back Close	

主節點配置

配置Worker節點:根據應用程式要求,您可以擴大或縮小工作節點。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1		Q 🛿 234 🔺 42 🖂 🗣 6	
	Storage	≅ Progress	Worker Node Pool 1		
	Virtualization Kubernetes	Ceneral	Name * CaaSKubeW		
×		2 Cluster Configuration	2) Cluster Configuration		
	Orchestration	3 Control Plane Node Pool Configuration	Desired size *		
	Profiles	Worker Node Pools Configuration	2		
	Templates	5 Add-ons Configuration	Min Size *	Max Size *	
	Policies	6 Summary	2 0	3	<u>)</u> 0
	Pools				
	OPTIMIZE ^		Selected Version KubeVersion 👁 ×		
	Overview		IP Pool *		
	Plan		Selected IP Pool KubeMgmtPool @ ×		
	More		Kubernetes Labels		
ø	ADMIN ^		Key Name O	Value CaaSKubeW	
	Targets				
	Software Repository	< Back Close			

工作節點配置

配置載入項。現在,您可以通過Prometheus監控自動部署、Kubernetes Dashboard和Graffana。

將來,您可以新增更多外掛,以便使用IKS自動部署。

	cisco Intersight		CONFIGURE > Edit Kubernetes Cluster Profile	> KubeK8sCL1			🗘 🖪 234 🔺 42	F 6	
	Storage		Progress			<u> </u>	Step 5		
	Kubernetes	q	General			E 🔅	Storage and Optional Add-ons		
×	CONFIGURE ^	Ģ	Cluster Configuration						
	Orchestration	¢	Control Plane Node Pool Configuration		Add Add-on				
	Profiles	¢	Worker Node Pools Configuration		+ Expand All				
	Templates		Add-ons Configuration		+ Add-on 1				0
	Policies		Summary		+ Add-on 2				
	Pools								
Ľ	OPTIMIZE ^								
	Overview								
	Plan								
	Placement								
	More								
(P)	ADMIN ^	Γ							
	Targets	,							
	Software Repository		< Back Close						

新增附加裝置(如果有)

檢查摘要,然後按一下**Deploy**。

≡	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile	> KubeK8sCL1 Q 🖬 234 🔺 42 🔀 📢 6 🔍 🔞 🕥
	Storage	😇 Progress	Step 6
	Virtualization	General	Summary Summary
×		2 Cluster Configuration	General
	Orchestration	Control Plane Node Pool Configuration	Organization CMS-CaaS-Eng-Lab Type instance
	Profiles	Worker Node Pools Configuration	Name KubeK8sCL1 Tags
	Templates	5 Add-ons Configuration	Kubernetes Version KubeVersion
	Policies	- Summary	Description
	Pools	Janinary Saminary	Maud Drouider Olustar Configuration Node Dools Add.one
\bowtie			
	Overview		Cluster Type ESXI Name CaaS-Engg+IX1
	Plan		Interface common[CAAS-MGMT.APIACI-KUBE-MGMT
	Placement		Datastore CaaS-LAB+IX1
	More		Resource Pool IKS-RPool
ø	ADMIN ^		
	Targets		
	Software Repository	K Back Close	

配置檔案建立摘要螢幕

驗證

使用本節內容,確認您的組態是否正常運作。

在右上角,您可以跟蹤部署的進度。

÷	· → C @	O A ē² https://intersight.com/an/policy/profiles/kubernetes/ 80%	☆ ♡ ±	. 🕫 🐔 📓 🖉 😁 🗏
=	cisco Intersight	CONFIGURE > Profiles Q	🗖 234 🔺 42 👘 🦳 4 🕴 📢 6	୍ ତ୍ ଡି Ritesh Tandon 🕰
	Storage	HyperFlex Cluster Profiles UCS Chassis Profiles UCS Domain Profiles UCS Server Profiles Kubernetes Cluster Profiles		Requests All Active Completed X
	Virtualization Kubernetes	* All Kubernetes Cluster P_ © +		New VM Config In Progress kubek8scf1-caaskubew-6ba6b a few seconds ago
×	CONFIGURE ^	2 Q. Add Filter	Coport 1 items	New VM Config In Progress kubek8scl1-caaskubew-caa20_ a few seconds ago
	Orchestration	Name Status Kubernetes Version Cloud Provider Type Control Plane Nodes Control Plane	e Worker_ Worker Nodes	C New VM Config In Progress
	Tamplates	KubekBsCl.1 Configuring v1.19.5 ESXI 0 0		kubek8sc11-controlpl-b8a50f8_ a few seconds ago
	Policies			KubeK8sCL1 a minute ago
	Pools			
Ŀ	OPTIMIZE ^			
	Overview			
	Plan			
	Placement			
	More			
ø	ADMIN ^			
	Targets			
	Software Repository			View All

使用IKS GUI驗證

隨著部署的進行,您可以看到在vCenter上將會顯示您的Kubernetes主節點和輔助節點。

vm	vSphe	re Client	t	Menu 🗸	Q Search
۵	D		Q		
~ 🗗 CA	AS-VCEN	NTER1.caas	s.lab.cc	m	
~ 🗈	CaaS-Eng	gg-Lab			
> [🗍 CaaS-E	Engg-CL			
~1	CaaS-E	Engg-HX1			
	Co caas	s-lab-hx1.ca	aas.lab	.com	
	Caas	s-lab-hx2.c	aas.lab	o.com	
	Caas	s-lab-hx3.c	aas.lab	o.com	
	🐻 caas	s-lab-hx4.c	aas.lat	o.com	
	🐻 caas	s-lab-hx5.c	aas.lat	o.com	
	🐻 caas	s-lab-hx6.c	aas.lab	o.com	
	Caas	s-lab-hx7.c	aas.lak	o.com	
	🐻 caas	s-lab-hx8.c	aas.lat	o.com	
`	V 🔗 IKS-I	RPool			
	🗗 ka	ubek8scl1-	caasku	bew-6ba6bf794	le
	🔂 ku	ubek8scl1-	caasku	bew-caa202993	Be
	🗗 ku	ubek8scl1-	contro	lpl-b8a50f8235	
	🔂 acisi	im-site1			
	🔁 acisi	im-site2			V

vCenter中即將推出IKS群集

如果您需要檢視部署的詳細步驟,可以進一步深入瞭解執行過程。

=	dialia cisco Intersight	Requests > Deploy Kubernetes Cluster Profile		Q 🖪 234 🔺 42 🔿 1 🗣 6 🔍 🥥	⑦ Ritesh Tandon Q
	Virtualization	Details	Execution Flow		
	Kubernetes	Status D In Progress	Progress		29%
×		Name Deploy Kubernetes Cluster Profile	Apply Cluster Profile Node Pool Changes View Execution Flow		
	Orchestration	ID 6184e899696f6e2d3110dcd1 Target Type Kubernetes Cluster Profile	Oreate Bootstrap Token		
	Profiles	Target Name KubeKBsCL1 Source Type Kubernetes Cluster Profile	Create Kubeconfig		
	Templates		Create Cluster Certificates		
	Policies Pools	Initiator rittando@cisco.com Start Time Nov 5, 2021 1:47 PM	⊘ Get Associated Cluster		
\mathbb{R}	OPTIMIZE ^	End Time -	Prepare Node Pool for Scale Action		
	Overview	Duration 2 m 12 s	Prepare Node Pool for Scale Action		
	Plan Placement	Organizations CMS CauS-Eng Lab	For Each Node Pool Batch 0		
	More		⊘ Get Node Pools in Cluster Profile		
¢	ADMIN ^				
	Targets				



連線到Kubernetes群集

您可以通過以下方式連線到Kubernetes群集:

ululu Intersight OPERATE > Kubernetes △ ■ 234 ▲ 42 F 6 Ritesh Tandon 🔎 54 day 00 MONITOR added before the grace period end OPERATE Servers * All Kubernetes 💿 Chassi 10 v per page 🔣 < 1 of 1 🗲 河 1 items found Fabric Interconnect Networking Connected 1 Storage Virtualization CMS-CaaS-En. Kubernetes Download Kubeconfig CONFIGURE Undeploy Cluster Orchestration Open TAC Case

您需要將KubeCtl安裝在要從其中訪問此群集的管理工作站上。

從IKS下載KubeConfig檔案

您也可以使用SSH應用程式(如Putty)直接通過SSH連線到主節點,並在部署時配置憑證和私鑰 如果將「Kubernetes Dashboard」部署為載入項,您也可以使用它,直接使用GUI部署應用程式。 要檢查更多詳細資訊,請檢視「訪問Kubernetes群集」部分,此處:

使用CLI驗證

一旦能夠使用kubeCtl連線到Kubernetes群集,就可以使用以下命令來驗證該群集是否已安裝並運行 所有元件。

驗證群集中的節點是否處於「就緒」狀態。

iksadmin@kubek8scl1-controlp1-b8a50f8235:~\$ kubectl get nodes NAME STATUS ROLES AGE VERSION kubek8scl1-caaskubew-6ba6bf794e Ready 驗證在群集上安裝基本元件時建立的Pod的狀態。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get pod -n iks | grep apply- apply-ccpmonitor-2b7tx 0/1 Completed 0 6d3h apply-cloud-provider-qczsj 0/1 Completed 0 6d3h apply-cnig7dcc 0/1 Completed 0 6d3h apply-essential-cert-ca-jwdtk 0/1 Completed 0 6d3h apply-essentialcert-manager-bg5fj 0/1 Completed 0 6d3h apply-essential-metallb-nzj7h 0/1 Completed 0 6d3h apply-essential-nginx-ingress-8qrnq 0/1 Completed 0 6d3h apply-essential-registry-f5wn6 0/1 Completed 0 6d3h apply-essential-vsphere-csi-tjfnq 0/1 Completed 0 6d3h apply-kubernetesdashboard-rslt4 0/1 Completed 0 6d3h

驗證管理本地運行的掌舵人的ccp-helm-operator pod的狀態並安裝載入項。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get helmcharts.helm.ccp.---.com -A NAMESPACE NAME STATUS VERSION INSTALLED VERSION SYNCED iks ccp-monitor INSTALLED 0.2.61-helm3 iks essential-cert-ca INSTALLED 0.1.1-helm3 iks essential-cert-manager INSTALLED v1.0.2-cisco1helm3 iks essential-metallb INSTALLED 0.12.0-cisco3-helm3 iks essential-nginx-ingress INSTALLED 2.10.0-cisco2-helm3 iks essential-registry INSTALLED 1.8.3-cisco10-helm3 iks essential-vspherecsi INSTALLED 1.0.1-helm3 iks kubernetes-dashboard INSTALLED 3.0.2-cisco3-helm3 iks vsphere-cpi INSTALLED 0.1.3-helm3 iksadmin@kubek8scl1-controlpl-b8a50f8235:~\$ helm ls -A WARNING: Kubernetes configuration file is group-readable. This is insecure. Location: /home/iksadmin/.kube/config NAME NAMESPACE REVISION UPDATED STATUS CHART APP VERSION addon-operator iks 1 2021-11-05 07:45:15.44180913 +0000 UTC deployed ccp-helm-operator-9.1.0-alpha.44.g415a48c4be1.0 ccp-monitor iks 1 2021-11-05 08:23:11.309694887 +0000 UTC deployed ccp-monitor-0.2.61-helm3 essential-certca iks 1 2021-11-05 07:55:04.409542885 +0000 UTC deployed cert-ca-0.1.1-helm3 0.1.0 essentialcert-manager iks 1 2021-11-05 07:54:41.433212634 +0000 UTC deployed cert-manager-v1.0.2-ciscolhelm3 v1.0.2 essential-metallb iks 1 2021-11-05 07:54:48.799226547 +0000 UTC deployed metallb-0.12.0-cisco3-helm3 0.8.1 essential-nginx-ingress iks 1 2021-11-05 07:54:46.762865131 +0000 UTC deployed ingress-nginx-2.10.0-cisco2-helm3 0.33.0 essential-registry iks 1 2021-11-05 07:54:36.734982103 +0000 UTC deployed docker-registry-1.8.3-cisco10-helm3 2.7.1 essentialvsphere-csi kube-system 1 2021-11-05 07:54:58.168305242 +0000 UTC deployed vsphere-csi-1.0.1helm3 v2.0.0 kubernetes-dashboard iks 1 2021-11-05 07:55:10.197905183 +0000 UTC deployed kubernetes-dashboard-3.0.2-cisco3-helm3 2.1.0 vsphere-cpi kube-system 1 2021-11-05 07:54:38.292088943 +0000 UTC deployed vsphere-cpi-0.1.3-helm3 1.1.0

驗證管理每個IKS租戶群集上預設安裝的Essential(核心)載入項的essential* pod的狀態。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get pod -n iks | grep ^essential- essentialessential-metallb-controller-6557847d57-djs9b 1/1 Running 0 6d4h essential-metallb-speaker-7t54v 1/1 Running 0 6d4h essential-metallb-speaker-ggmbn 1/1 Running 0 6d4h essential-metallb-speakeringress-ingress-nginx-defaultbackend-695fbj4mnd 1/1 Running 0 6d4h essential-registry-docker-

cert-manager-6bb7d776d-tpkhj 1/1 Running 0 6d4h essential-cert-manager-cainjector-549c8f74cx5sjp 1/1 Running 0 6d4h essential-cert-manager-webhook-76f596b686-drf79 1/1 Running 0 6d4h mwmfg 1/1 Running 0 6d4h essential-nginx-ingress-ingress-nginx-controller-k2hsw 1/1 Running 0 6d4h essential-nginx-ingress-nginx-controller-kfkm9 1/1 Running 0 6d4h essential-nginx-

registry-75b84457f4-4fmlh 1/1 Running 0 6d4h

EXTERNAL-IP PORT(S) AGE ccp-monitor-grafana ClusterIP 192.168.23.161

如果特定Pod沒有啟動,您可以使用這些命令深入查詢原因。

• 在此處檢視Intersight Kubernetes服務演示。

iksadmin@kubek8scl1-controlp1-b8a50f8235:~\$ kubectl get svc -n iks NAME TYPE CLUSTER-IP

驗證在IKS名稱空間中部署的服務和負載平衡器的狀態。

本節提供的資訊可用於對組態進行疑難排解。

Syntax : kubectl describe pod

•在此處檢查IKS服務<mark>簡介。</mark> • 在此處檢視使用者指南。

• 技術支援與文件 - Cisco Systems

疑難排解

相關資訊