使用Intersight Kubernetes服务配置Kubernetes集 群

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简介

本文档介绍使用Cisco Intersight™ Kubernetes服务(IKS)从Cisco Intersight(SaaS)调配生产级 Kubernetes群集的配置。

背景信息

最近,Kubernetes已成为事实上的集装箱管理工具,因为组织倾向于通过集装箱化解决方案在应用 现代化方面投入更多资金。借助Kubernetes,开发团队可以轻松部署、管理和扩展其集装箱化应用 ,使其持续的交付渠道更容易获得创新。

但是,Kubernetes面临运营挑战,因为它需要时间和技术专业知识来安装和配置。 安装Kubernetes和所需的不同软件组件、创建群集、配置存储、网络和安全,以及操作(例如升级 、更新和修补关键安全漏洞)需要持续的大量人力资本投资。

进入IKS,这是一种关键的SaaS解决方案,用于管理任何地点的一致的生产级Kubernetes。要了解 有关IKS功能的更多信息,请点击此链接。

解决方案概述

对于本文档,我们希望展示IKS与您的内部基础设施无缝集成的能力,即运行VMware ESXi和 vCenter。

只需点击几下,即可在VMware基础架构上部署生产级Kubernetes群集。

但是,要做到这一点,您必须将您的现场vCenter与Intersight(即"声明目标")集成,vCenter是此 处的目标。

您需要Cisco Intersight Assist虚拟设备,该设备有助于将终端目标添加到Cisco Intersight。您可以 使用思科官方网站上提供的引导程序OVA安装Intersight Assist。

为限制本文档的范围,我们不重点介绍Cisco Intersight Assist虚拟设备安装。但是,你可以看看这 个过<u>程</u>

先决条件

要求

Cisco 建议您了解以下主题:

- Intersight帐户:您需要有效的思科ID和Intersight帐户。
 如果您没有思科ID,可以在思科网站上创建思科ID。然后,单击Intersight上的创建帐户链接。
- Cisco Intersight Assist:Cisco Intersight Assist可帮助您将vCenter/ESXi作为终端目标添加到 Cisco Intersight。
- 连接性:如果您的环境支持HTTP/S代理,您可以使用该代理将Cisco Intersight Assist设备连接到 互联网。或者,您必须打开端口以访问URL。请检查此链<u>接以</u>了解详细的网络连接要求:
- vCenter凭证,用于在Intersight上申请。

使用的组件

本文档不限于特定的软件和硬件版本。

假设

由于部署Cisco Intersight设备不在本文档的讨论范围之内。

我们假设您已经拥有一个工作的Intersight帐户,并且已成功向其申请了内部vCenter/Esxi。

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原 始(默认)配置。如果您的网络处于活动状态,请确保您了解所有命令的潜在影响。

配置

步骤1.配置策略

策略将配置抽象为可重复使用的模板,从而简化管理。

我们需要配置的一些策略如下所示。请注意,所有这些策略都将在Intersight的Configure >> Policies & Configure >> Pools部分下创建。

您还可以在每个屏幕截图顶部看到策略的路径,如下所示。

当在ESXi主机上启动时,此IP池将用于控制和工作节点虚拟机上的IP地址。

=	cisco Intersight	CONFIGURE > Pools > IP Pool > Edit	Q 🖪 234 🔺 42 💿 1 🛛 📢 6 🔤 🤤		
	Virtualization	🖻 Progress	Step 2		
	Kubernetes	(1) General	IPv4 Pool Details Network interface configuration data for IPv4		
×	CONFIGURE ^	IPv4 Pool Details	interfaces.		
	Orchestration		Configure IPv4 Pool		
	Profiles	3 IPv6 Pool Details	Previously saved parameters cannot be channed. You can find Cisco recommendations at Help Center.		- 1
	Templates			_	
x	Policies		Configuration		
	Pools		Netmask * Gateway * 255.255.255.0 [©] 172.1.2.254		
\succeq	OPTIMIZE ^				
	Overview		Primary DNS Secondary DNS 172.1.10.6 [©] 172.1.10.7		
	Plan				
	Placement		iP Blocks		
	More		From * Size *		
Q	ADMIN ^		<u>172.1.2.30</u> © 20	<u>[]</u> © 1 - 256	
	Targets				
	Software Repository				
	v	< Back Close			

在此,您定义了Pod和服务网络CIDR,用于Kubernetes集群内的内部网络。



服务和网络CIDR

此策略定义您的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,可以定义docker容器运行时的代理配置。

Ξ	cisco Intersig	ht	CONFIGURE > Policies > Conta	💭 📕 234 🔺 42		
	Storage		Workload Optimizer is out of comp	liance, as the license usage or subscribed term has expired. To continue with licensed fea	eatures, ensure sufficient licenses are added b	before the grace period ends. Go to Licensing
	Virtualization		🔄 Progress			
	Kubernetes			Docker HTTP Proxy		
×	CONFIGURE		General General	Protocol Hostna	name	Port
			Policy Details	<u>http v ©</u> 172.1.	1.10.21 ©	3128 🗊 🖉
	Orchestration					1-65535
	Profiles			Username o Passw	sword ⊚ ⊙	
	Templates					
	Policies			Docker HTTPS Proxy		
	Pools			Protocol Hostna	name	Port
1912				http v © 172.1.	1.10.21 ©	3128 📋 🔍
2	OPTIMIZE	^				1-65535
	Overview			Username O Passw	sword © 0	
	Plan					
	Placement					
	More			Docker Daemon Bridge CIDR O		
1000		18				
ē	ADMIN	^		Docker No Proxy		
	Targets			172.1.10.0/24 💿 📋		

Docker的代理配置

在此策略中,您将定义部署为主节点和工作节点的虚拟机上所需的配置。

=	cisco Intersight	CONFIGURE > Policies > Virtua	Machine Infra Config > KubeVMInfraConfig > Edit		Q II 234 ▲ 42 📝 95 6 9, 😳 🤅
	Storage	🔄 Progress	C.	Step 2 Policy Det	taile
	Virtualization Kubernetes	General		Add policy deta	iano alis
×	CONFIGURE ^	Policy Details	Provider/Platform		
	Orchestration		vCenter		
	Profiles		Q Add Filter		3 items found 50 - per page (<
	Templates		Name		
	Policies		CaaS-Engg-CL		
	Pools		CaaS-Engg-HX1		
\bowtie	OPTIMIZE ^		CaaS-Engg-HX2		
	Overview				K (<u>1</u> of 1))
	Plan		Datastore *		Resource Pool
	Placement		CaaS-LAB-HX1		IKS-RPool
	More				Interface #
ē	ADMIN ^		vSphere Admin Passphrase *	0	common CAAS-MGMT-AP ACI-KUBE-MGMT
	Targets				

使用的VM配置

步骤2.配置配置文件

创建上述策略后,我们会将其绑定到一个配置文件中,然后可以部署。

使用策略和配置文件部署配置可抽象化配置层,以便快速重复部署配置层。

您可以复制此配置文件并在几分钟内对基础策略进行很少或更多的修改后创建一个新配置文件,只 需手动过程所需的一小部分时间,即可将其复制到一个或多个Kubernetes集群。

Glve在名称中并设置标记。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	Q II 234 ▲ 42 🕑 95 ⁴ 6 Q, Ø Ø
	Storage	든 Progress	Step 1
	Kubernetes	General	General Name, Description, and K8s Version
×	CONFIGURE ^	2 Cluster Configuration	Operativation •
	Orchestration	3 Control Plane Node Pool Configuration	CMS-CasS-Eng-Lab
	Profiles	Worker Node Pools Configuration	
	Templates	5 Add-ons Configuration	KubeK8sCL1 O
	Policies	6 Summary	
	Pools		Set Tags
Ľ	OPTIMIZE ^		
	Overview		Description
	Plan		
	Placement		<≈ 1024
	More		
ģ	ADMIN ^		
	Targets		

带名称和标记的配置文件配置

设置池、节点OS、网络CIDR策略。您还需要配置用户ID和SSH密钥(公共)。

其相应的私钥将用于ssh到主节点和工作节点。

=	cisco Intersight		CONFIGURE > Edit Kubernetes Cluster Pro	file > KubeK8sCL1 Q II 234 ▲ 42 🗹 95 6 Q		
	Storage Virtualization		Progress	Step 2 Cluster Configuration Network, System, and SSH		
×	Kubernetes CONFIGURE		Cluster Configuration	IP Pool *		
	Orchestration Profiles		Control Plane Node Pool Configuration Worker Node Pools Configuration	I Selected IP Pool KubeMgmtPool I I × Load Balancer Count *		
	Templates Policies		Add-ons Configuration	1 1-999		
t e	Pools		6 Summary	SSH User * SSH Public Key * ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNo ⁺	<u>></u> +	
R.	Overview					
	Plan Placement			+ DNS, NTP and Time Zone 🔗 KubeNodeOSConf		
	More			+ Network CIDR StubeCIDR + Trusted Registries (Optional Policy)		
ģ	ADMIN ^ Targets			+ Container Runtime Policy (Optional Policy) 🔗 KubeContRunT		
	Software Repository	1	< Back Close			

已分配策略的配置文件配置

配置控制平面:您可以定义控制平面上需要多少个主节点。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	다 🖬 234 🔺 42 🕑 📢 6 다. 😨
	Storage	⊂ Progress	Control Plane Node Configuration
	Virtualization Kubernetes	General	Desired Size *
×	CONFIGURE ^	2 Cluster Configuration	Min Size * Max Size *
	Orchestration	Ontrol Plane Node Pool Configuration	
	Profiles	Worker Node Pools Configuration	Kubernetes Version *
	Templates	Add-ons Configuration	Belected Version KubeVersion ⊕ ×
	Policies	6 Summary	IP Pool *
	Pools		Selected IP Pool KubeMgmtPool
\bowtie	OPTIMIZE ^		Kubernetes Labels
	Overview		Key Value
	Plan		Name <u>CaaSKubeM</u> +
	Placement		
	More		Selected Virtual Machine Infra Config KubeVMinfraConfig
ģ	ADMIN ^		Virtual Machine Instance Type *
	Targets		Belected Instance Type KubeVMInstType
	Software Repository	< Back Close	

主节点配置

配置工作节点:根据应用要求,您可以纵向或纵向扩展工作节点。

=	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1		Q 🛛 234 🔺 42		
	Storage	⊆ Progress	- Worker Node Pool 1			
	Virtualization Kubernetes	1 General	Name * CaaSKubeW			
×	CONFIGURE ^	2 Cluster Configuration	Worker Node Counte			
	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 🗘 🗘	3	<u>) o</u>	
	Pools		Kubernetes Version *			
\bowtie	OPTIMIZE ^		Selected Version KubeVersion © ×			
	Overview		IP Pool *			
	Plan		Selected IP Pool KubeMgmtPool 💿 ×			
	Placement		Kubernetes Labels			
(A)	ADMIN		Key Name O	Value CaaSKubeW		
42	Tamate		Name	Guadraden		
	Software Repository	(Back Close				
	IN INC.					

工作节点配置

配置加载项。到目前为止,您可以自动部署Kubernetes Dashboard和Graffana,并进行 Prometheus监控。

将来,您可以添加更多可使用IKS自动部署的插件。

Ξ	cisco Intersight		ONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	🚨 🧧 234 🔺 42	9 ‡ 6			
	Storage		Progress		<u>يم</u>	Step 5		
	Kubernetes	Ģ) General		⊑ ₿	Storage and Optional Add-ons		
×	CONFIGURE ^	2	Cluster Configuration					
	Orchestration	ġ	Control Plane Node Pool Configuration	Add Add-on				
	Profiles	0	Worker Node Pools Configuration	Expand All				
	Templates		Add-ons Configuration	+ Add-on 1				
	Policies		Summer	+ Add-on 2				
	Pools		Summary					
Ľ								
	Overview							
	Plan							
	Placement							
	More							
ø								
	Targets							
	Software Repository		< Back Close					

添加插件(如果有)

选中Summary,然后单击**Deploy**。

≡	cisco Intersight	CONFIGURE > Edit Kubernetes Cluster Profile > KubeK8sCL1	Q ■ 234 ▲ 42 😰 9 21 6 Q, Ø) ()
	Storage	준 Progress	Step 6
	Kubernetes	General 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 KubeKBSCL1 Tags
	Templates	5 Add-ons Configuration	Kubernetes Version KubeVersion
	Policies	Summary	Description
122	Pools		Cloud Provider Cluster Configuration Node Pools Add-ons
	OPTIMIZE ^		Cluster Type ESXI Name CaaS-Engg-HX1
	Overview		
	Plan		Interface common[CAAS-MGMT-APIACI-KUBE-MGMT
	Mara		Datastore CaaS-LAB-HXT
ন্ধো	ADMIN		Resource Pool IKS-H2YOOI
42	Targets		
	Software Repository	K Back Close	

配置文件创建摘要屏幕

验证

使用本部分可确认配置能否正常运行。

在右上角,您可以跟踪部署进度。

~	→ C @ ○ A == https://intersight.com/an/policy/profiles/kubernetes/									R	-8, 🕅		8	
=	cisco Intersight		CONFIGURE > Profiles					Q 🖪 234 🔺	42 🔿 4 🖓 6				Ritesh T	andon &
	Storage	^	HyperFlex Cluster Profile	s UCS Chassis Profiles	UCS Domain Profiles	UCS Server Profiles	Kubernetes Cluster Profil	es		Requ	ests	All Acti	ve Comp	sleted ×
	Virtualization Kubernetes		* All Kubernetes Cluster	P_ ⊚ +						O Ne	w VM Config bek8scl1-caask	ibew-6ba6b.	tr . a few se	n Progress conds ago
×	CONFIGURE ^								🕒 Export 1 items	C Ne	w VM Config bek8scl1-caaski	dew-caa20.	tr . a few se	n Progress conds ago
	Orchestration		Neme	Status :	Kubernetes Version	Cloud Provider Type	Control Plane Nodes	Control Plane Worker_	Worker Nodes	C N	w VM Config		I	n Progress
	Profiles			Configuring	v1.19.5	ESXI					bek8scl1-contro	pl-b8a50f8		
	Templates									C De Ki	ploy Kubernetes beK8sCL1	Cluster Pr_	tr a n	n Progress ninute ago
	Policies													
	Pools													
Ľ	OPTIMIZE ^													
	Overview													
	Plan													
	Placement													
	More													
¢	ADMIN ^													
	Targets													
	Software Repository											View All		

使用IKS GUI验证

随着部署的推进,您可以看到vCenter上的Kubernetes主节点和工作节点。

vm	vSphe	re Clier	nt	Menu 🗸	Q Search
۵	R		9		
v 🗗 CA	AS-VCEN	NTER1.ca	as.lab.co	om	
~ D	CaaS-Eng	gg-Lab			
>1	📋 CaaS-E	Engg-CL			
~1	CaaS-E	Engg-HX1			
	Co caas	s-lab-hx1.	caas.lab	o.com	
	Co caas	s-lab-hx2	.caas.lal	b.com	
	Co caas	s-lab-hx3	.caas.lal	b.com	
	🐻 caas	s-lab-hx4	.caas.la	b.com	
	🐻 caas	s-lab-hx5	.caas.lal	b.com	
	🐻 caas	s-lab-hx6	.caas.lal	b.com	
	Caas	s-lab-hx7	.caas.lal	b.com	
	🐻 caas	s-lab-hx8	.caas.lal	b.com	
1	V 🔗 IKS-	RPool			
	🔓 ka	ubek8scl	1-caasku	ubew-6ba6bf79	4e
	🔂 ki	ubek8scl	1-caasku	ubew-caa20299)3e
	🗗 ki	ubek8scl	1-contro	lpl-b8a50f8235	6
	🔂 acisi	im-site1			
	🔂 acis	im-site2			VC

vCenter中即将出现IKS群集

如果您需要查看部署的详细步骤,可以进一步深入执行。

=	dialis cisco Intersight	Requests > Deploy Kubernetes Cluster Profile		û 🖬 234 🔺 42 û 1 📢 6 🔍	⑦ Ritesh Tandon <u>2</u>
	Virtualization	Details	Execution Flow		
	Kubernetes	Status D In Progress	Progress		29%
×	CONFIGURE ^	Name Deploy Kubernetes Cluster Profile	Apply Cluster Profile Node Pool Changes View Execution Flow		
	Orchestration	ID 6184e899696f6e2d3110dcd1 Target Type Kubernetes Cluster Profile	O Create Bootstrap Token		
	Profiles	Target Name KubeKBsCL1	Oreate Kubeconfig		
	Templates	Source Type Kubernetes Cluster Profile	Create Cluster Certificates		
	Policies Pools	Source vame Nuberosul, I Initiator rittando@cisco.com Start Time Nov 5 2021 1:47 PM	Get Associated Cluster		
Ľ	OPTIMIZE ^	End Time -	Prepare Node Pool for Scale Action		
	Overview	Duration 2 m 12 s Organizations CMS-CasS-Eng-Lab	Prepare Node Pool for Scale Action		
	Plan Placement		Por Each Node Pool Batch 0		
	More		Get Node Pools in Cluster Profile		
¢	ADMIN ^				
	Targets				



连接到Kubernetes集群

您可以通过以下方式连接到Kubernetes集群:

使用KubeConfig文件,您可以从Operate > Kubernetes > Select 最右边的选项下载该文件。

您需要在管理工作站上安装KubeCtl,您要从其中访问此群集。

Ξ	cisco Intersight	OPERATE > Kubernetes	🗘 🖪 234 🔺	42 🛛 🖓	¢‡16 Q	٢	ල Ritesh Tandon යු
<u>00o</u>		 Workload Optimizer is out of compliance, as the license usage or subscribed term added before the grace period ends. 	has expired. To con	tinue with licensed	features, ensure suf	ficient licenses are	Go to 54 days
Ŵ	OPERATE ^				0		Close
	Servers	* All Kubernetes © +					
	Chassis	Q Add Filter			1 items found	10 v perpage	K < 1 of 1 > >
	Fabric Interconnects	Connection					9
	Networking	Connected 1					
	HyperFlex Clusters						
	Storage	Name Status Last Upd Associated Pr	Profile Status	Control Plane	Control Plane	Worker Nodes	Organization &
	Virtualization	KubeK8sCL1 Connected 7 minutes ago KubeK8sCL1	💿 ок				CMS-CaaS-En_
	Kubernetes						Download Kubeconfig
×	CONFIGURE ^						Undeploy Cluster
	Orchestration						Open TAC Case

从IKS下载KubeConfig文件

您还可以使用SSH应用(如Putty)直接通过SSH连接到主节点,这些应用在部署时配置了凭证和私 钥

如果将"Kubernetes Dashboard"部署为加载项,您也可以使用该插件,直接使用GUI部署应用。

要查看更多详细信息,请查看"访问Kubernetes集群"部分,<u>此处</u>:

使用CLI进行验证

一旦您能够使用kubeCtl连接到Kubernetes集群,您就可以使用以下命令验证集群是否安装并运行了 所有组件。

验证集群中的节点是否处于"就绪"状态。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get nodes NAME STATUS ROLES AGE VERSION kubek8scll-caaskubew-6ba6bf794e Ready

验证在群集上安装基本组件时创建的Pod的状态。

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

验证负责管理本地运行的舵机并安装附加设备的ccp-helm-operator pod的状态。

iksadmin@kubek8scl1-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-ciscolhelm3 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.q415a48c4be1.0 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-ciscol0-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

验证管理每个IKS租户群集上默认安装的基本(核心)插件的基本* Pod的状态。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get pod -n iks | grep ^essential- essentialcert-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 essential-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-speakermwmfg 1/1 Running 0 6d4h essential-nginx-ingress-ingress-nginx-controller-k2hsw 1/1 Running 0 6d4h essential-nginx-ingress-ingress-nginx-controller-kfkm9 1/1 Running 0 6d4h essential-nginxingress-ingress-nginx-defaultbackend-695fbj4mnd 1/1 Running 0 6d4h essential-registry-dockerregistry-75b84457f4-4fmlh 1/1 Running 0 6d4h

验证在IKS命名空间中部署的服务和负载均衡器的状态。

iksadmin@kubek8scll-controlpl-b8a50f8235:~\$ kubectl get svc -n iks NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE ccp-monitor-grafana ClusterIP 192.168.23.161

故障排除

本部分提供的信息可用于对配置进行故障排除。

如果特定Pod未启动,您可以使用这些命令深入了解原因。

Syntax : kubectl describe pod

相关信息

- •请在此处查看IKS服务简介。
- •请点击此处查看用户指南。
- •在此处查看Intersight Kubernetes服务演示。
- <u>技术支持和文档 Cisco Systems</u>