# 实验九: vRealize Log Insight

# 一、实验目的

- 1、了解 vRealize Log Insight;
- 2、掌握 vRealize Log Insight 的部署与配置;
- 3、掌握 vRealize Log Insight 的基本应用。

## 二、实验学时

2 学时

## 三、实验类型

设计性

# 四、实验需求

## 1、硬件

每个人配备计算机1台。(学生可根据自身情况使用个人计算机)。

每个人分配网络运维实验室的服务器 1 台 (预先安装 VMware vSphere ESXi) 或提供 云计算资源。

# 2、软件

Windows 操作系统,或 MacOS 操作系统。 安装 VirtualBox 或 VMware WorkStation Pro。 安装最新版本的浏览器,建议使用 Edge、Chrome 等。

## 3、网络

计算机使用固定 IP 地址接入局域网,能够访问实验教学中心网络运维实验室服务器集群,并支持对互联网的访问。

# 4、工具

需要预先下载 VMware vRealize Log Insight 4.8 的 ISO 文件。

# 五、实验任务

- 1、完成 vRealize Log Insight 的部署;
- 2、完成对 vRealize Log Insight 的基本使用;
- 3、完成使用 vRealize Log Insight 对数据中心进行日志分析。

# 六、实验环境



- 1、本实验需要 VM 1台;
- 2、本实验 VM 配置信息如表 9-1 所示。

#### 表 9-1 虚拟机配置信息

虚拟机配置	操作系统配置
虚拟机名称: Labs-Cloud-vRealize-Log-Insight	主机名: Labs-Cloud-vRealize-Log-Insight
内存: 4GB	IP 地址: 10.10.2.126
CPU: 2 颗	子网掩码: 255.255.255.0
虚拟磁盘: 20GB+40GB+512GB	网关: 10.10.2.1
网卡: 1 块	DNS: 10.10.3.70

# 七、实验内容步骤

## 1、部署 vRealize Log Insight

(1) 软件获取

vRealize Log Insight 可通过 VMware 官网获取评估版,下载地址为 https://customercon nect.vmware.com/downloads/#all\_products,本实验所使用的版本为 VMware-vRealize-Log-Ins ight-4.8.0-13036238\_OVF10.ova。

(2) 平台准备

本任务在前期项目完成的基础上开展,需完成虚拟化平台的建设。

(3) 在 vSphere Web Client 控制台中,选中资源池"Student-2024181999-学生姓名"右击,选择【部署 OVF 模板】弹出向导框,在向导的"1 选择 OVF 模板"中选择"本地文件",单击【选择文件】,选择"VMware-vRealize-Log-Insight-4.8.0-13036238\_OVF10.ova"文件,单击【NEXT】,如图 9-1 所示。



图 9-1 选择 OVF 模板

(4) 在向导的"2 选择名称和文件夹"中设置虚拟机名称为"Labs-Cloud-vRealize-Log-In sight"、选择虚拟机存放位置为"实验-学生姓名"文件夹,单击【NEXT】,如图 9-2 所示。

C O O O     O	. 2019 раза 2019 година 2019 година 201	0 million	N. Hereitan	
	CANER BACK BET			
1000 m				

图 9-2 选择名称和文件夹

(5)在向导的"3 选择计算资源"中选择资源池"Student-2024181999-学生姓名",单击 【NEXT】,如图 9-3 所示。



图 9-3 选择计算资源

(6) 在向导的"4 查看详细信息"验证模板详细信息,单击【NEXT】,如图 9-4 所示。



图 9-4 查看详细信息

(7) 在向导的"5 许可协议"中勾选"我接受所有许可协议",单击【NEXT】,如图 9-5 所示。

we vishers that 1 an v					
	Control 2024/0009-92232     Control 2024/0009-9223     Control 2024/0009-9223     Control 2024/0009-9223     Control 2024/0009-9223     Control 2024/0009-9223     Control 2024/0009-9223     Control 2024/0009-9224     Control 2024/0009     Control 2024/0009-9224     Control 2024/0009     Control 2024/000     Control 2024     Control	Alter characteristics and an anti- characteristica. Antical-Solar. Marcel-Solar	C Q+	In the second se	
parse pe	L	Barrentes.			

图 9-5 勾选许可协议

(8) 在向导"6 配置"中根据实际需要选择部署配置,本次实验勾选"Extra Small"部署 配置,单击【NEXT】,如图 9-6 所示。



图 9-6 配置

(9) 在向导"7 选择存储"中选择用于配置文件和磁盘文件的存储,选择虚拟磁盘格式为"厚置备延迟置零",并进行兼容性检查,单击【NEXT】,如图 9-7 所示。



图 9-7 选择存储

(10) 在向导"8 选择网络"中,为每个源网络选择目标网络,选择 IP 协议为"IPv4",单击【NEXT】,如图 9-8 所示。



图 9-8 选择网络

(11)在向导"9 自定义模板"中自定义该软件解决方案的部署属性,设置 Hostname、I P 地址、子网掩码、默认网关、DNS 和 root 密码, Hostname 设置为"Labs-Cloud-vRealize-L og-Insight", Network 1 IP Address 设置为"10.10.2.126", Network 1 Netmask 设置为"255.2 55.255.0", Default Gateway 设置为"10.10.2.1", DNS 设置为"10.10.3.70",并设置 Root Pass word,单击【NEXT】,如图 9-9 所示。



图 9-9 自定义模板

(12) 在向导"10 即将完成"中,检查信息并单击【完成】,等待创建结束,如图 9-10 所示。



图 9-10 完成部署 OVF 模板

# 2、初始化安装 vRealize Log Insight

(1)创建完成后,启动虚拟机进行初始化安装。浏览器访问 https://10.10.2.126,单击 【下一步】,如图 9-11 所示。

E Log Insight				
	安装程序 <b>欢迎使用</b> vRealize Log Insight RR、REXREP-#EX、REAT-C+、REATSA			

#### 图 9-11 安装程序

(2)选择部署类型,单击【启动新部署】,等待部署加载,如图 9-12 所示。



## 图 9-12 启动新部署

(3)管理员用户初始化,为用户"admin"设置密码,单击【保存并继续】,如图 9-13 所

示。

wm Lop Insight		
	• • • • • • • • • • • • • • • • • • • •	
	管理员凭据	
	MP-6 edm	
	0764	
	89590	
	·····································	
	610 (F 1920)	

# 图 9-13 输入管理员凭据

(4)添加许可证密钥,单击【添加许可证】,添加完成后,单击【保存并继续】,如 图 9-14 所示。



#### 图 9-14 添加许可证

(5)设置常规配置,单击【保存并继续】,如图 9-15 所示。

244-10127-000
第規配置
他人的出现已经出来的达米国生活中,不可能能加速的中心,因为重要的非常不能会注意出现更可能。 因 10g 10g 10g 10g 节载点回路可靠可能的出现的影响。
第643第6544 (P#2P+62P+人) 111日111110100 (P#2P+
H HTTP Post BARBERDER
m小和我想当时知
House Designing for any account definition. 2018; here any 2018 and 2018
C 10. Month Restautoven
2-9

图 9-15 常规配置

(6) 配置 NTP 服务器,设置 NTP 服务器(逗号分隔)为"10.10.3.70",单击【测试】,测试是否生效,单击【保存并继续】,如图 9-16 所示。

日本 日	
探由課社之間かりいで願う	(第7)表式表現時で100 生活用からだ。
30.02.0841 90	2024#2/02003 2:410:00:20 UTC-08:00
服务期时间	2034年2月20日上旬10:00 IS UTC-08:00 11日 新聞中国の10088-0237
IE753811978.97398	NTP 服务器 (推动) ~~
NTP 服用器 (空空分码)	1030.3.70
	127 (0.005000/0000200) 127 (0.005000/0000200)
<u>k-9</u>	医过 每日开着缺

#### 图 9-16 时间配置

(7) 设置 SMTP,用于启用关于警示和重要系统通知的外发电子邮件,单击【保存并继续】,如图 9-17 所示。

m Log insgit	
SMTP 配置	
0.017 MARCH 2100000 T	local-out
IRCI SSL(SMTPS)	25 CDD ©
57.4817.1.5 (6)# 2819.A	D 0 Ioprophibeverole.con (0)
Rrs.	178
10.7 (019 10.1)	103 R036467#R
1-9	BUE MYO HARR

## 图 9-17 SMTP 配置

(8)设置完成后,单击【完成】,完成系统初始化,如图 9-18 所示。

um Log hisght		1
	设置完成	
	全部官僚	
	IRACITY I I MARKET LOS INSIGNAL REPORTERS	
	and and another and and all another the	
	1-9	

图 9-18 设置完成

## 3、集成数据源

(1) 与 vSphere 集成

系统初始化完成后,单击"配置 vSphere 集成",界面跳转至"vSphere",填写 vCenter Se rver 的主机名为"10.10.2.120",用户名为"administrator@labs.cloud.local"及密码。勾选"收集 vCenterServer 事件、任务和警报"、"将 ESXI 主机配置为发送日志至 Log Insight",单击【测 试连接】,对其进行连接测试。出现"测试成功"字样后,单击【保存】,配置 ESXi 主机, 配置完成后,单击【确定】,如图 9-19、9-20、9-21 所示。

ven Log insgin	RAM 011	**	EPCERS Anna
		Diagnostic production of the state of	

图 9-19 集成 vSphere

Fill         VSpherce           Reg         Andrehows           Reg         Andrehows           Reg         Reg over the set of
H         HOLANDEC           Device
Diff         Diff         NULL         Diff         NULL         X           rdf         Rr         Ammendministrat         Bit Ammendministrat
12日記 102 101-101-101 0 100-201 · 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
vSphere adden
vikatize Operations
mm 19月 毎日飲近 
5807 649 55,

图 9-20 配置 vCenter Server

图 9-21 保存配置并配置 ESXi 主机

(2) 与 vRealize Operations 集成

选择左侧的"集成"选项卡中"vRealize Operations",界面跳转至"vRealize Operations 集成",填写 vRealize Operations Manager 的主机名为"10.10.2.125",用户名为"admin"及密码。 勾选"启用警示集成"、"启用"在环境中启动"",单击【测试】,对其进行连接测试。显示"测 试成功"字样后,单击【保存】,注册 vRealize Operations 数据源,注册数据源成功后,单 击【确定】,如图 9-22、9-23 所示。

	ORAN REIZON	ENTERS Anno E
प्रा: Lephandr सह अग्रहा मेन्द्र मान्द्र मेन्द्र मेन मान्द्र मान्द मान्द्र मान्द्र मान्द्र मान्द्र मान्द्र मान्द्र मान्त्र मान्त्र मा मान्द्र मान्त्त मान्त्त मान्त्	Rest         Michige           March Operation SLEE         Sector S	

图 9-22 配置 vRealize Operations 集成

vm. Leo inspir	RAN STATIS	ENGINE Anno 2
Ref. (anyo) 400 80 80 80 80 80 80 80 80 80 80 80 80 8	Bit         Control           Sector         Sector           Sector         Sector	

图 9-23 数据源注册成功

#### 4、使用日志分析仪表板

(1)管理仪表板

① 在自定义仪表板中,有"我的仪表板"和"共享仪表板"两种。用户仪表板存放每个独立 用户的仪表板组件,未进行共享前,其他用户无法使用该仪表板。如图 9-24 所示。

		\$25.65%		Energy Trans
Relacement ** Statuscement Doublocend 1	#15590 65%0/00 - 85%80	name – c name o		
3 Approxi Approximation 2 Approximation 2 Appr	Number		Render of events by hexteam	
- 889.88				

#### 图 9-24 我的仪表板

② 共享仪表板中默认没有组件,要想将加入组件,要使用"新建仪表板"按钮或从内容包 中克隆现有仪表板。共享仪表板中的组件,对所有的用户都是开放的。用户可对共享仪表板 中的组件进行添加、修改和删除等操作,如图 9-25、9-26、9-27 所示。



#### 图 9-25 共享仪表板

			(SHATE AND A star =
NIZ XXXXM * REFCOME Obstant1	861100200 - c 05901002000000 ()		œ
3 ARCENT	The Levels	Renter of events by horizons	4000 -

#### 图 9-26 新建仪表板

vm Log insight	00846 0.1162046
0.02550846	<u>₩655800000000 ~</u> ए
> 900000980	ANNALARIAN ()
Bit Lighting/r     Bit Display       High Stars	
ieda	NAME     DESCR     DESCR     DESCR       NAME     ALL STREED     C       NAME     ALL STREED     C
International Control of Co	
Bit Lipsonger     Bit Lipsonger     C ALCAS     C ALCAS       HARSH RANGE     * * * *     * * * *       HARSH RANGE     * * * *     * * * *       HARSH RANGE     * * * *     * * * *       HARSH RANGE     * * * * * *     * * * * *       HARSH RANGE     * * * * * * * * * * * * * * * * * * *	
2 Villoure - VSAN	
> VMvere - vRops 67+	
2 Villoare - xSphere	naine minis minis minis minis
- M89.85	

## 图 9-27 新建共享仪表板

③ 内容包仪表板存放的是从内容包市场中导入的已经定义好的仪表板组件,不能进行 修改,如图 9-28、9-29 所示。



vm Log insight	0088 025206		Participal Antonio							
- BANRE PSESAM Rost Eller Carent General Vitwes-VIAN	Vinvare Tanzu Kubernetes Grid Mutticloud e-									
Vilvere - vilope 6.3+ Vilvere - vSphere Ververe Teres Kulternates Grid	CL和版 All Gener Cantinu									
ne la bayes Assa Hand Hand Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra Ra	0.00120	0409822 BL2								
REXAM	Aft Server Events 0	Chart This widget provides over all events occurred to API Server over the time range.								
1000	API server events by pods 0	Chart This widget provides over all events occurred to API Server over the time range grouped by pol.								
	BronLogs Occurred Over Time O	Chart This wdget provides same enoriogs occurred in API lienes.								
	AM Server Auditiogs II	Chart This weight provide total audit lege in API server over time range.								
	Controller Manager Overview	Centralier Manager Ownniew								
	1497 2.0	小相当我型 動注								
	Controller Manager Events	Chart This wedget provides over all events occurred to Controller over the time range.								
	BrorLogs OverTane O	Chart This weight provides table error count in controller manager.								
	Scale Up Operation Over Time II	Chart This widget provides scale up operation events occurred over time range.								
	Scale Down Operation Over Time O	Chart This widget provides scale down operation events occurred over time range.								
	Controller Manager Events by pods :::	Chart This wedget provides over all events occurred to Controller over the time range grouped by pod.								
	Namespace deleted 0	Chart This waget provides over all events occurred when Kubernetes namespace develad								
	Coroni Plane Overview									
	048528	048582 R.1								
	Control Plane Events ()	Chart This wedget provides over all events occurred to control plane over the time range.								

图 9-29 导入内容包

(2) 小组件的使用

① 在各个仪表板中可通过添加和删除筛选器来精确查找日志。如图 2-5-7 所示。

	2288#W	截近1.9442033		e	
	N2062846	<b>在所有小田将上面示</b> 算	HO C		
	林寨在港市	hostname		82	使用10年度40%年增升局部个才语
		SOURCE		52	使用 TAB 成 ENTER 输出局部个对语
1.1	6100.66	apprene		trá:	使用 talk 就 ENTER 输出输送令术语
	Gereal	X SOUTH		128	使用 tas statutes 输行辅助令求语
	Overview				

图 9-30 添加和删除筛选器

② 通过单击图表组件的右上角的"在交互式分析中打开"的图标,可详细查看与其相关的日志情况,如图 9-31、9-32 所示。



## 图 9-31 图表

						PRINCE (F.F.)	
						0.10	-
and some of	-	100				244	
				<u>9-</u> 85	s mecaniti		A- 10
				200	200 000 CLAT II 000 CLAT II	11.620	
ARE -	BARNE .						
Bin						18. /	
AND DE COLOR	annen orte et all la Breetige comme	e-Gad His-sale (	riss. Talah selipate Apelli	- 24, drame, 200		U.M. Electronic	
	anter anno 1	n-Chieleffer-some)	not, bila for nestal lear	ent er /user-suu, fruet III		E rustare El éraite	
	Marcal-Marca All La	Ne Gaur (Givennier) Anglatia	rost fails for random mur	nar = c. freed.(t)			
	AD-R-D-DTR (4.07.78) G. R. Sovelly be (4. R. averages (5.6.6)	Line-Cloud-MINI-10	art anvenuepes, 2 (b)	e) (an') (MITC) 2011 anna ao baile anna 1911) ("Interpretation", 1, "anna anna 1, "agus anna 1, "an 1911, 1, "ag 1911, 1	t, 'ng Benadit's I, 'ng Loren		
10000	annen orden er en en 1917 - Sanatyter 18	Later Closer (C) - ro	art sammangen 100	$\label{eq:constraint} (5.001) (2010) (200) (all observation (10)) (1000) (2000) (10)) (10) (2000) (10) (10) (10) (10) (10) (10) (10) $	, 'ag fannan' it, 'ag lawny .		
20141721 0-0-0-00	STREET	Later-Dout-DPL-19	wil servelerget. 1.203	D San't MCARAC Ministrationalised with a Construction of Construction of Construction (Construction) (Construction) (Construction)	6. 'ng beknite's 6. 'ng beneg		
	anter anna anna anna anna anna anna anna an	unte-Cour-Atri	der sammasargen: i Sta	G Saud Settl Refresementationenese (1981) ("Leterare Source", 6, "annearter,", 6, "aglaneart", 6, "ann. 6, "ag	ing metoday's it, long laters		
	Hardsona in m	Late-Close-Ethi-ro A, Table-Coquers	ie-" samtragarpen. 1 (15) maint false. "State-tag	4) (art) () 20% automotivational (VBE () or smaller 10' - 8, log 31 Degenser' - 8, log session 22 Degenser' - 8, log squares (at a plate of	(1. 1. "mins 12 Geganne") 8,		
	March-Office 14 at 198	Later Court Claires	art sammalingen 1 (0)	0 (ser) 2.0 Minuted field with the Contemportant states ( ), say 10 fee - 8, Sensitivity states ( ), series - 15, - 16 (series - 8), Sensitivity ( ), Sensiti	antprompter h.		

图 9-32 浏览日志

## 5、日志浏览与检索

(1) 按时间范围浏览和检索日志

① 以 vSphere 日志为例,在侧边栏中选择"VMware - vSphere"选项,选择一个仪表板 子项,在左上角选择不同的时间范围浏览和检索其日志。如图 9-33、9-34 所示。

Mill Log Hisght	0.88 0.1.0%	PRESS And
0.02550000 > 90050000 > 109-02906 Philiptobal	Ball Simplified         v         c           Ball Simplified	
2 Geneal 2 Villnere - VISN 2 Villnere - VISN VVIllnere - Vishere Geneal - Detriene Geneal - Proteines Geneal - Proteines Geneal - General		1606.028
General - Inventory Security - Auditing Security - Authonocoson Ucanas Servier - Devolver Ucanas Forvier - Devolver Ucanas Servier - Alarma Ucanas Servier - Alarma Ucanas Servier - Alarma	Contraction of the second	1         1
Reconfiguration vCenter Source Performance vSphere - Dearlier vSphere - DBS vSphere - MATEDN vSphere - Mattion vSphere - Resource vSphere - Resource Storage - Scoll Lawrey / Errors	Vojdere santing neetin 	1420.00 1427.00

图 9-33 仪表板 1

wm Lop Insight	ORE READE	BANGERRY Lotes =
自动文化制度	● 低白()をおおお () マーマー	
> 900500800		
211000000	第二章 51999(1988) 第二章 51999(1988) 第二章 5199(1988) 第二章 519(1988) <p< td=""><td></td></p<>	
animateria i	Received the second test and the second seco	
Perroration		
/ General	Inc. Vo. Vo. Constants	
> Villoure - VSAN	Al visphere events by hostname	
> VMvere - vRops 6.7-		
VWwww-vSphere		
General - Duervieu		
General - Problems		
General - Performance	139 159 159 159 169 160 160 160 160 160 160 160 160 160 160	10.002320
General - Licensing		
General - Inventory	vSphere error events by cluster	
Security - Auditing	20 4 Blos	
Security - Authentication	B-ItBhanne	
vCenter Server - Overview	10	
vCenter Server - Events		
vCenter Server - Tosio		
vCenter Server - Alerns	nim ties nim nim nim nim nim ties nim	1610 1620
vCenter Server - Reconfigurations		
vCenter Server - Performence	vSphere warning events vSphere warning events by cluster	
sSphere - Overview		
vSphere - DRS		
vSphare - HA / FOM	1	
vSphere - vMotion		
vSphere - Network		
vSphare - Replication	15.50 15.40 15.51 16.00 16.10 16.20 15.50 15.00 15.50 15.00	16.0 16.0
Storage - Overview		
Storage - SCSI Latency / Errors	Relevant vSphere queries	
Storage - SCSI Serva Codes	data sense sente to terrange	

图 9-34 仪表板 2

②选择仪表板图表组件,在交互式分析界面中打开,对图表组件进行不同时间范围的 日志查看和检索。如图 9-35、9-36 所示。



图 9-35 浏览日志 1



图 9-36 浏览日志 2

# (2) 按字段运算检索日志

① 在交互式分析界面,单击"添加筛选器",在搜索文本框下方的筛选器行中,使用第一个下拉菜单选择在 vRealize Log Insight 中定义的字段,此处选择"hostname"与"event\_type", 在第二个下拉菜单选择"包含"与"为",第三个下拉菜单填写"Labs-Cloud-ESXi-node-1"与"v4\_921a00e9",回车后,显示出含有相关字段的事件与图表。如图 9-37、9-38 所示。

													PROTECT A stre
													A 100 10 1000
								$\int_{a}$			<u>~</u>		
	ACCREMENT &	10000											
										4- 40	1 1 4 STORE	~	·····
	LEATS.									2004	206-000105-001-0	204235 82	006-0025
										100		the BRIDGAY	vel 🗸
Antes a			nier Reserve of	an (hangelag)2010077 ()	sprane HET address	y Reg (19712) Passile	losi misioni - (1716)	erering throad a	order a defension of the	(II) Janarhaman	in e logia norme e	siles pers +	U M Electronic Electronic
2010-10 0.1120-201	201-0-0706-08-06-08 0001 2 0-0702/08 100000	-	nici fragras, ni	na -milar-neg13848882 (1	WARTER PROPERTY	s has statist; heads	loși estante - Difrie	estration and	colored debilitions (1)	(1) Jerselenes	or a class write a	alles pert a	E vinc, journ
2029(22) 0.2024-001	20-0-0198 N 141 IA	da-Cloud-USC-rook Appleta prost	i androexeCollect	a persing state for WS -	fire Life-Clusters								
	101-0-0716 M IL 81	t Late-Close-Stri-	where $i$ to set $\rightarrow$										El encland in the
	management of the local Reservation for some	II LAN-COLO-EDG-	sard watth error to	All States of Long-searching	s adoptinit) Linco	admitten y das stel	la mil que primaia	<ul> <li>(). \$900,712,10</li> </ul>	and the				Conversion of
	So-comments and	II Ceter-Divor-ED-L-	saithears in	ne christerne 1989-485 D	and a second second	s fee 1054 feed	bar engelet - Driver	esing/tindle-	inclosed in the state of the	045 Januarhaness		ellis gen -	
	No-so-term in the lat	an-Chin-stri-son annes aver	-1 mongaetCalairteS	period inter art off	a use-Gue-Mi								
	2010-02-05700 (0.12.22) # 0-07.204 1007076	It Later Clour Chin-	carl Milaroy or	ne outside outside the	Generality address	y has selled the d	Clarit closed the street	n, ne unquestado					
	ante oran an an Reservation and an	la case-dinar-titri-	the Property of	in (maring(2000)) (1	sprawer WENT and the sp	y No. (1977) The G	Garry closed the corne	n, na iraqainidy					
	and assessed as These	h Late Country	nard therefore to	Deserver Dates	2 (* 107. 6. 8. F., 4044)	'WER' (vant of							

图 9-37 原日志

											B 112	of materia
nin Rissenit <b>B-12</b> (Salara a	164 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1610				." n- <b>1991</b> - 20	
58 gil- 17968								★・ 単近1/4 2004.220	93 <b>933</b> 630 x 406 11		<b>* m</b>	A 5
NAMES × DESERTE												
10 7429 8/10/2 8 2010/20 2014/2-07/81/11/26 2010/2018 80000000000000000000000000000000000		en angeleren 17 Marien Perso	inta pyri 1990. Pracas	aing profile and entri-	4.7.0-22.000400-14	- aalai oo mine mening		1250-228	480 <b>88</b> -3	· British-	912 ×	
2010220 20142-0788-07-08	Labor-Cloude CDIC-rector	I washer: 2408: Nor	No. pr.: 140. Proce	ning profile onl 1990	0.143033480-05	#18+1440850NC0303090					E exemuty Postname	
ana arange in an	Caller Claude Million House	f mugdeni 198080 hina	ina gyo 1995. Praim	aing profile only fills	4.7.8-363811818814-1							
2014/201 2014/0-0798-17-20 80738-01 2 0494-2018 1000 2014/201 2014-40-0798-17-20	Labe-Claud-4311-rode	d madeix 24280 No.	Nota pyc. 1990. Proces	aing profile and stor-	4.7.6-20101010-4	Landar 0117108-1214/101740	14					
1073030 E entitie net 201020 20140-078175.00	interclausettri-sule	e magdene 20000 Mag	ana yyo 1990. Proces	and here and the	4.7.1-221218287-14	-sala minina m						
2004020 200+43-00100 10 20 00720322 8 www.how hold	Caller-Claude 4342-rocks	Employ 2408 No.	1414 gyr: 1492 Prices	aing profile and also	4.7.6-202001013-4	14564-000-201280541-40707	14					
2010/201 201-02-0706-07-06	GaberClaudedSigmade	E englist: 2408: Nor	inte pro 140. Proce	aing profile onl (Si-	4.7.4-30303480-95	andan (* 500 500 500 54560 / 07	N .					
NUMBER DEPENDENCE	Labor Cloude Attraction	E mugden (1818) has	inta pyr: 1993. Proces	airg profile only stro-	4.7.0-2010/04/01-05	aniariz stratogicali si stra						

图 9-38 确定字段后的日志

② 除添加筛选器之外,可直接在图表下的搜索框中,对字段"Labs-Cloud-ESXi-node-1" 进行检索,也可获取到其相关日志。如图 9-39 所示。

						PRINTER A stein	
							1
				die da	da du		
Rooms Britishess x 300x	1.00				680		1
LaborCoud-ESH-restel    State Bit				\$*	Reg 1-1419383R → C	10.20 X 10 X	1
Ba 70.5 Bring Brigh						98 Z	
2014030 BOHD-DEVILLE AL AND DEPCHARACTER-INC	art non Gildreelpais aineth 18	12, Kraetti 200				C 20 El esprere	
2010/201 2014-43-0110 32 IFT GRANDAUSCONE	and most fails for randial months	For Assertance, Friedlic 200					0
2014220 20-42-0FM S2 FT GaterClauetStores 92201422 E evenue homene aprene	Art root: Gale for randials mounted	For Z. Poetli 20					000
2014230 2014-01-01788-02 unter-Claud-0201-140 Wild Datar III evenings Nothers Software	art root. There are 1 (var/28)/we	and satisfied and an arring					
0004000 IRO-40-0716 II INT LABORCEAU-BELLINE 10220000 E avenue homene aprene pode	ant starting and starting and	19104 on Aar/Lit/mark/sar/tic/aaritaarar	ahgrauphost/ch/m/aor/vaenbaerve				
200220 BO-D-OTH S AT LineCourtStorm	et siningene(20002) pering	press for W5 value Late-Court-W5					
2014220 IND-40-DIVISION BIT SAT CARACTERISTICS	art infilm provident of the	unrightertifiers an time erifiers or	the verified				
204200 300-42-0794 31:55:554 Cate-Dour-Dis 10.0010 31 21.0010 31	Distant Proproy: whom rists accurate inclusions	Proglammer Desperorment adorrary for the	13 Aucl-ed engolist : DiVincoreiktg/6	undle-codped interested light parters	enges + /vps stim + Klov _prt +		
2024230 202-45-0798 21 TROD CAR-COULERS 02352322 2 evelope homes append the	Decident rows: long-speciately of a	Sopiatoliti adopto quodibilitintan attad vecali	e-realized in the set of the set				
204220 20+42-0756 31-53 ADE (ats-CountDa 90255330 autor, ga habiana aprana very	product types: only reproductionally and production of the second s	Neglate-BIT advantes at 0-5433-655444	e-Thetaern-Hall Craes/MD MSDN 1-19-274	— spra — sprapi /prodension.fatetQuindiata	- 1268449-1369-1349-7341-95-53414938		

图 9-39 检索字段日志

(3) 分析日志事件类型和事件趋势

① 以"Labs-Cloud-ESXi-node-1"为例,分析其如图 9-40 之中的事件类型。在交互式分析 界面中,单击"事件类型"子选项。然后在搜索框或者添加一个为"hostname"、"包含"、"Lab s-Cloud-ESXi-node-1"的筛选器。如图 9-41 所示。



图 9-40 事件类型原图



图 9-41 Labs-Cloud-ESXi-node-1 事件类型

② 分析其如图 9-42 之中的 Labs-Cloud-ESXi-node-1 的事件趋势。在交互式分析界面中, 单击"事件趋势"子选项。然后在搜索框或者添加一个为"hostname"、"包含"、"Labs-Cloud-E SXi-node-1"的筛选器。如图 9-43 所示。

		(TAN)			Bantiziki Luken
					0 mm 12 2000.000
			~~~~		
	-	-		N8	
- 25.00					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
P.1 .		B-150		the united of games'	vii / ~ ~
				Resident of the second se	Read And
+	-2414-02-34736-38	18-162 Jahr Dauf (Dr.) sole	rd Responder i laat log relation toos, 2024-02-0000-02-0	1.110 - Los the accuracy as has execute, below for these ED, predimities version 1.1.6, build-failed, specification (CONTRACTOR) 800	El terrenter el la propriet
*	ADA-D-JITHE IT Surficial and right	18.187 tala-Guai diki viak 1871 - Mili, Tanadiyindar	<ul> <li>-1 - surrouserpati + (1894) (apr) () 200 assignmentation + "scienced agreement" 200, "eq. branch (C. 6)</li> </ul>	BETTE CARACTERISTICS, Space Clark, A. Samptonicalization, J. Seven Mat. Solution, 40, 101000000000.	
	-2014-03-04798-05 1001-03-17108-05	id 100 Law Coul (Streak 'area (St. 8, wg 199	<ul> <li>Section (1971) 10 (1982) 2440 (2009) including the data of the section (1982)</li> </ul>	(a) (10) ( value laborated ): (0), value laboration (10), value laborate game ( ), val) (transmit ( 2), ( ) ( ) (2) (2) (20)	Everyode Everyddaeter Eleneyddaeter
	Jan Harrison (1997) PC - L. Senador	of etil Late-Coul-ENI-con ax' Ethnol	<ul> <li>Hammongen, 1 Data Spall 2000 SMY pacentine</li> </ul>	(a) and (a)	El venuent autoritette de la Constantia
*	errora competit	and the same time with our	n varente all transmittaneous permanant	halenhildsenny) arty = ("samaany", "tententente, "salietsaan!", #, "salietsaan!", #, "salietsaar", #) = <-0.555554-0.000	I character the second
+	10+41-10100.11	17.100 Late-Deat-Bio-rose	earaitectea PRESSAULTINGCASE (%) and (%)	d Scapping start splitte dat to atola landa from hosts	Entransistanti di Santa da S
	341	Geliet Les Due Elleven	r) (SaP0754) r-42 (Administrator: Refrienducid/SaP4) -	iii.got./initial.ac/limit/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initi Initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/initial/ini	Every and person many series of the series o
	1015.077	nal'Na Like Gask Olympik apil (Second 11, 1999)	Transition and Discontrational Astronomy	(a) and U addition is support With the set thread of the set of	El vers and all device and a set
	10 mageries	Painter Later Court (Dicester	biol/yenerologi, venilitat (a. (999644) (v	(apter 1989) anny para atte (1994, an/Autol 1944, styluard) 1944 + control + Mil	Dente processing and the second
	200 144164-0441	PRIME Law Cash Street	- meeting what had been underline governme	and all view more manylogic ("main"), "versit");	E vers, and, and, anna, and

图 9-42 事件趋势

vm Li	phight QAK \$1525K	PRECERS Later =
204320		
7		
10.000	A #18 NAMES & 100 1 10 10 10	
Labo-Cos X Tranza • BALIR R	alikinasi	9.70
81 1	EN ROAD TOURNESS TOURNESS TO AND TOURS	9R / =
	HER-DOTE IN A THE INCLUSION AND AND AND AND AND AND AND AND AND AN	
	Histoletika (H. Landardischer Antonegaler) (2003) (2003) (2007) (2004) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (2007) (	Every Rot Add (Mars - dyna) 0 Every Rot Add (Mars - d) 0 Every Rot Add (Mars - d) 0
	enti nej tributali Dimprovo Laberato (2004/2014) Llovent albèria VIIII-rateria) (2004/2014) etc. 2004 (2004/2014) etc. 2014 (2014/2014) etc. 2014 (2014/2014) etc. 2014 (2014/2014) etc. 2014/2014) etc. 2014/2014 (2014/2014) etc. 2014/2014) etc. 2014/2014) etc. 2014/2014 (2014/2014) etc. 2014/2014) etc. 2014/2014) etc. 2014/2014) etc. 2014/2014 (2014/2014) etc. 2014/2014) etc. 2014	Concession of the second secon
	1010-010700 (F 10 101) Life Charl (North Theorem 1/4 North Theorem 1/4 North Theorem 101 1010 (and the theorem 1010) 1010 (and the theorem 101	Even, ed., ed., d. Marson datasi Even, ed., even from the source of the
	2014年6月29日 2014年6月20日本8月1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日1日	B vmc, and units, course comments of the sector of the sec
. 1	101-02-0110 17 101 LaberClaveClaveClaveClaveClaveClaveClaveClave	Constant Internet Constant Con
. *	Bittel:DREAR is a LID interface Bitterie internancy (s. 1 (BB) [] (B) Bitteries/antiant/UBE [Contractantial]) (BB, "contractantiant") (BB, "contractantiant)) (BB, "contractantiant) (BB, "contractantiant)) (BB, "contract	Constant (Constant)
	300+0(200 H H J LOD Line Clast	B vmc.eb.eet.apt //www.co. 0 B vmc.e.apt.abjet.nere //www.0 B vmc.ear.com.uot.abr.get. 0
	His-Bittel H.H. Alth. Standardstringer 1 (1980) (m) () () () () () () () () () () () () ()	Byny, and cong the part of the

图 9-43 Labs-Cloud-ESXi-node-1 事件趋势

## 6、对数据中心进行日志分析

(1) 查看和管理数据中心日志

① 在侧边栏中选择"VMware - vSphere"选项,在最右侧显示的仪表板小组件中,查看和管理 vSphere 日志。在"VMware - vSphere"选项的子选项中,查看和管理 vSphere 的各项 参数功能的数据和日志情况。如图 9-44、9-45 所示。

vm Lopinsight	0288 631504	Bana a state =
0.02.500.500 > 90.0500.000 > 0.0500.000 - 0.0500.000 > 0.0500.000 - 0.0500.0000 - 0.05000 - 0.0500.0000 - 0.05000 - 0.050000 - 0.05000 - 0.05000 - 0.05000 - 0.0500000 - 0	Bits Simplifie         C         C           Balling All 2012/00 (a)         Data         V         Bits to disconsibility in dia           Balling         Ball         V         Bits to disconsibility in dia           Samera         Ball         V         Bits to disconsibility in dia           - Samedia         - Samedia         Bits to disconsibility in dia	0
2 Villeers - VSAN 2 Villeers - VSAN 3 Villeers - Slipt 6,3* VVilleers - Sphere General - Proteins General - Performance desard - Performance	Al sphere events	All displante events by hostname
General - Sciencery General - Investory Security - Auditing Security - Auditing Center Server - Security uCenter Server - Facility uCenter Server - Alertity uCenter Server - Alertity uCenter Server - Alertity	Vigbene error events 10 10 10 10 10 10 10 10 10 10	Vighere error events by cluster 5008
Beachgueasse vCenter Server - Performence vSphere - Dats vSphere - DAS vSphere - McKon vSphere - Medion vSphere - Netock vSphere - Replication	vSphere wanting events         1         6 ± 0 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ±	VSphere waning events by cluster Room wain white waits we're white white we're we're wann
Storage - Overview Storage - SCS Latency / Enors Storage - SCSI Series Codes Storage - SCSI Series Codes	Relevant vSphere queries minimum dates samp sets ty times	

图 9-44 vSphere 仪表板

	9288 01/20%	Statistical Astro-
10232000 2 002000 2 002000 2 002000 2 002000 2 00200	Bit 1 (2020)         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         - <t< th=""><th></th></t<>	
2 Villeare, VIAN 2 Villeare, vilga 625 VVilleare, vilga est General - Dervine General - Patheres General - Patheresol General - Catheresol	Vestes Server events over time	Center Server W rovers by user
Served Interfer Benedi Interfery Seculy Authorities Center Serve Dennie Center Serve Toto Center Serve Toto Center Serve Jahren Center Serve Jahren	VPXA error events over time 5 4 1	Objected VM faults by fault type
Resettigentere Kertal Sone - Pedersone Sphere - Derven Sphere - DSS Sphere - McCon Sphere - McCon Sphere - McCon Sphere - McCon Sphere - McCon	Belovart Viphere problem guntes minute Some sector is the sector of the sector of the sector Some sector is the sector of the sector of the sector Belower was according under sector of the sector of the sector of the sector sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the sector of the se	WCenter Server system events and r - sa
Rompe - Sciences Berege - SCIELeercy / Errori Sconge - SCIE Series Codes	Relevant generic vSphere queries	

图 9-45 vCenter Server - Events 功能仪表板

② 在左上角选择不同的时间范围,查看 vSphere 不同时间的日志情况。如图 9-46 所示。



图 9-46 时段选择

(2) 向 vSphere 发送警示

① 在交互式分析界面中选择"创建或管理警示"图标,选择"管理警示",勾选"VMwarevSphere 内容包",单击【启用】,使用预定义警示,根据需要勾选,本次实验勾选并设置电 子邮件,单击【启用】,单击"x"退出,向 vSphere 发送警示通知。如图 9-47、9-48、9-49 所 示。

								CONTRACTOR A store
				警示		×		
				RESIDER				a a a a
				Other freed Streetung Date: Honologic Offenension has been deleted		1	DOUTE EACTOR IN TOATE AL	
DI THE BIRD TO	NRM (			8			the school at a strong	vii / ·
		and an other states of the	(mail (mail) (mails) and	Starty Salary of American Contraction			all' - I, 'ng DV - I, 'ng henneld' - I, 'ng lareng W - I,	U.S. Hostoria Desetting
				Street Constrained in Letter Technologies				
		WILLIAM OF THE	e maannedammeri-3 Drigeon	Sectors BD Blacky HS with the electronic dents Decision (97)			entering of the state of the st	
				Diservi HelMütlers			er's h. 'ng figuren har ' h. 'min II legense' h.	Element in a
			and the distance of the local distance of the local distance of the local distance of the local distance of the	810.	.0.14	0.0		
		2010/10/		to the second se			and a little ( \$5.5) and (at 10 little ) sufficiency	
		Artares when		which as because in BUT's) investor in implice				
				and the second second				
		Attaction control		and another the filler) for these times the				
150 millioner tailtheart of	In Case of Lot of Lot	distant in the	maker or Distances of the	a by many of wat they start the				

图 9-47 启用警示



图 9-48 勾选电子邮件



图 9-49 启用完成

② 单击右上角菜单展开项,选择"系统管理",在"管理"选项卡中选择"用户警示",查看 启用的 vSphere 警示,单击"编辑"图标,对用户警示进行编辑,如图 9-50、9-51 所示。

with Log insight	00880 <u>91</u> 4309								and the second s	
1178	用户警示 。									
NALES	101 201									
印度	NERRORD OF C								50-1	信示,共50个
05/08286	van et et an								an v man	
用戶關於										
±41.	. 208	- Gtos	NON :	\$756203H	CK I	WARDING .	10.0+034	LICERTING	¥25671890	100 1
(C)目 (例)年時(2)	<ul> <li>Chinda, ** ESK: Care oursi detected officera-clones</li> </ul>	19/× 🜑	admin	-B0 1	44天	-#P	1.7	4:0415.018	5.599.54 8	n7#H
件可证	C CETCH, ** EDI: Dupficate IP address detecter	197X 🜑	admin	009 1	ie天 i	(B)	8.7	4.099.5.07 8	55 <u>999</u> 54 B	9769
MAE Viphere	ORTICAL - EDIt RAM dak / mode table schat     Offices - Galaxy	13/× 🜑	admin	c#0 1	44 <b>7</b>	180	1.7	4.049.547.88	5.010.5110	47611
vilueize Operators	Chinese - Sphere	192× 🜑	admin	ali 199 - 2	190 <b>%</b>	189	8.8	4294508	54.0	07814
NOS.	CRITCAL = Hardvark Physical event detected     (Invest-Injense)	13/× 🜑	admin	c\$20 2	10天 (	180	3.7	4.029.532.82	55 9 59 54 57	47611
1916) 唐印始花	ORTICAL ** Bonge All Paths Down (APD)     (Interes - Sphere)	197× 🜑	admin	089 3	100天	189	8.8	4:09:58 8	54.0	478H
SMTP APRI	CRECK, - Strenge Compt volume	197× 🜑	admin	(20)	47.	1820	7.6	4.0299-5.82-88	5.029 54 89	97611
55.	Childen, Brange VSAN device office     Chinese - Coheni	197× 🜑	admin	089 3	100 F	180	8.8	4.949.549 #8	54 B	47614
	Official, III vCenter Servic, Duplicate IP addres     detected     official-clubres	"i9/× 🜑	admin	ago 1	40天	189	8.7	4.099.5.00 8	5 5999 54 80	07811
	AterfloxRCosFociates (chives - Sphere)	13/× 🜑	adres	1080	440. <del>%</del>	104 m B	25780 M	NOTE N	50 B	47515
	BSR: Cannot power on e VM (these - ciphere)	197× 🜑	admin	c89 3	100天	-189	8.8	4.099.1.00 80	14.0	07814
	ESRI Component connectivity kat.     Otheres - Homes	13/× 🜑	admin.	1 Silles	40.T	1.111 A B	8.8	2.5日前	97.10	47611
	<ul> <li>BSX: HA fost blue detected (three-clanes)</li> </ul>	197× 🜑	acres	- E9 3	100 A	-#P	8.7	4.0115.018	14.0	n7#H

图 9-50 用户警示

with Log Insight	02841 025-504F			(B885)	Laten E
1118 NOLDOR DOR CONTROL MOREN	用户管示。 300米約1955 2 (3) - 48 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			<u>88 v 166</u>	10 个翻开,从 10 个 I
293	D 208 92	20.0+818	EREESING	¥215/5809	3 BK 3
1018 (01/2302)	Central Terrar Case ours preces     State - State     State	3.7	4.009.540 88	5 (214 54 8)	47215
种利益	Office:      Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:     Office:	3.7	4.099.530 10	55 599 51 89	07811
vistere	Contract,	3.8	4.000 5.00 88	5 3390 54 B	47815
vitaaliza Operations	C *** ORTCR, ** ESK Stopped logging	8.8	4299308	54.0	07814
жя: 0 ;;	CETCEL ** Nandouse Physical event datase     MolTPERTITION     Converse	8.8	4.999 5 89 88	55 10 54 8	47511
998 唐日始送	Constant and the power of	8.2	4.019.540 88	54.0	47211
SMTP APRi	CRICK - Samp Comprosant     Bold 198 - Biginger/Bill 27 - 0     monore - date     Bold 198 - Biginger/Bill 27 - 0     monore - date     Bold 198 - DB	8.7	4.999.539 88	5.5919 54 89	97511
52.	"     "     "     "     Official,     Incorpt. VISIN device utfree     (Othere:Ophere)	8.8	4.009.587.88	54 ID	47011
	CONTERL ** vCenter Server: Displicitie IP day     Conternation     Conternation     Conternation	8.8	4.009-1.07-88	5 5299 54 80	97811
	Amerika-Mongelostater (Minese-Hohee) 218 641 y (Schlincowne	217/88/ MI	NOTED IN	59 B	47415
	CRACE Connect Down on a VM Self et al.	8.8	4.000 5.00 80	54.0	07814
	ESR: Component connectivity bat othoreal-objected	3.8	2.68 10	57.89	47511
	C 2551.94 foot.054/ref detacted     (*9 ≠ X € advent 0889 260.75 0889	<u>н</u>	4.999.5.00 88	51.0	<b>876</b> H

图 9-51 编辑警示

# 八、实验考核

实验考核为【实验随堂查】。

实验随堂查:每个实验设置 3-5 考核点,学生现场进行演示和汇报讲解。

# 1、考核点

考核点 1: 完成 vRealize Log Insight 的部署,能够访问到 vRealize Log Insight 系统。 (40分)

考核点 2:集成 vRealize Operations 和 vSphere 数据源,并要求仪表板中的 VMware - VSAN 仪表板能够正常显示数据。(30分)

考核点 3: 在交互式分析界面通过添加筛选器查看数据中心之中 Labs-Cloud-ESXi-node -1 的日志事件。(30分)

## 2、考核方式

以实验小组为单位进行考核,每个小组由1位同学进行实验成果汇报,小组其他成员回答教师提问。根据汇报和答疑情况,对小组成员进行逐一打分。

由教师进行评分。