排除CNDP解決方案中的伺服器問題

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簡介

本文說明如何識別整合運算系統(UCS),並在雲端原生部署平台(CNDP)中檢查其上的錯誤專案。

背景資訊

與硬體相關的警報在Ultra雲核心訂戶微服務基礎架構(SMI)群集管理器(CM)通用執行環境(CEE)中報告。在CM虛擬IP(VIP)中報告Kubernetes(K8)、docker等相關資訊。

注意:請參閱網路設計和客戶資訊調查表(CIQ)以驗證IP。

問題

show alerts中報告錯誤「Equipment Alarm」。

- 登入到CM-CEE,運行命令show alerts active detail和show alerts history summary以顯示所有 活動警報和歷史警報。
- •注意警報中報告的伺服器IP。

```
show alerts active detail
alerts active detail server-alert 9c367ce5ee48
severity major
            "Equipment Alarm"
type
startsAt
           2021-10-27T17:10:37.025Z
source
           10.10.10.10
            "DDR4_P1_C1_ECC: DIMM 5 is inoperable : Check or replace DIMM"
summary
           [ "alertname: server-alert" "cluster: cr-chr-deployer" "description:
labels
DDR4_P1_C1_ECC: DIMM 5 is inoperable : Check or replace DIMM" "fault_id: sys/rack-unit-
1/board/memarray-1/mem-5/fault-F0185" "id: 134219020" "monitor: prometheus" "replica: cr-chr-
deployer" "server: 10.10.10.10" "severity: major" ]
annotations [ "dn: cr-chr-deployer/10.10.10.10/sys/rack-unit-1/board/memarray-1/mem-5/fault-
F0185/134219020" "summary: DDR4_P1_C1_ECC: DIMM 5 is inoperable : Check or replace DIMM" "type:
Equipment Alarm" ]
```

[lab-deployer/labceec01] cee# show alerts history summary

| NAME | UID | SEVERITY | STARTS AT | DURATION | SOURCE | SUMMARY |
|----------|--------------|----------|----------------|----------|-------------|--------------------|
| vm-alive | f6a65030b593 | minor | 09-02T10:28:28 | 1m40s | 10-192-0-13 | labd0123 is alive. |
| vm-error | 3a6d840e3eda | major | 09-02T10:27:18 | lm | 10-192-0-13 | labd0123 is down. |
| vm-alive | 49b2c1941dc6 | minor | 09-02T10:25:38 | 1m40s | 10-192-0-14 | labd0123 is alive. |

解決方案

識別在SMI CM的伺服器上託管的服務(容器)和/或虛擬機器(VM)或基於核心的虛擬機器 (KVM),運行命令**show running-config**,然後查詢伺服器IP的配置。

- 1. 登入到CM VIP(使用者名稱:雲使用者)
- 2. 從OPS Center獲取smi-cm命名空間
- 3. 登入到OPS Center, 然後檢查群集配置
- 4. 確定伺服器上運行的節點和虛擬機器

| <pre>cloud-user@lab-deployer-cm-primary:~\$ kubect1</pre> | get svc -r | n smi-cm | |
|---|------------|----------------|-----------------|
| NAME | TYPE | CLUSTER-IP | EXTERNAL-IP |
| PORT(S) | | AGE | |
| cluster-files-offline-smi-cluster-deployer | ClusterIP | 10.102.200.178 | <none></none> |
| 8080/TCP | | 98d | |
| iso-host-cluster-files-smi-cluster-deployer | ClusterIP | 10.102.100.208 | 192.168.1.102 |
| 80/TCP | | 98d | |
| iso-host-ops-center-smi-cluster-deployer | ClusterIP | 10.102.200.73 | 192.168.1.102 |
| 3001/TCP | | 98d | |
| netconf-ops-center-smi-cluster-deployer | ClusterIP | 10.102.100.207 | 192.168.184.193 |
| 3022/TCP,22/TCP | | 98d | |
| ops-center-smi-cluster-deployer | ClusterIP | 10.10.20.20 | <none></none> |
| 8008/TCP, 2024 /TCP, 2022/TCP, 7681/TCP, 3000/TCP, | 3001/TCP | 98d | |
| squid-proxy-node-port | NodePort | 10.102.60.114 | <none></none> |
| 3128:32261/TCP | | 98d | |

cloud-user@lab-deployer-cm-primary:~\$ ssh -p 2024 admin@10.10.20.20 admin@10.10.20.20's password: Welcome to the Cisco SMI Cluster Deployer on lab-deployer-cm-primary Copyright © 2016-2020, Cisco Systems, Inc. All rights reserved. admin connected from 192.168.1.100 using ssh on ops-center-smi-cluster-deployer-7848c69844-xzdw6 [lab-deployer-cm-primary] SMI Cluster Deployer# show running-config clusters

容器的輸出示例

在本示例中,伺服器由節點primary-1使用。

[lab-deployer-cm-primary] SMI Cluster Deployer# show running-config clusters lab01-smf nodes primary-1 clusters lab01-smf nodes primary-1 maintenance false k8s node-type primary k8s ssh-ip 10.192.10.22 k8s sshd-bind-to-ssh-ip true k8s node-ip 10.192.10.22 k8s node-labels smi.cisco.com/node-type oam exit k8s node-labels smi.cisco.com/node-type-1 proto exit

ucs-server cimc user admin ucs-server cimc ip-address 10.10.10.10

VM輸出示例

伺服器可用於基於KVM的虛擬機器。

在本示例中,伺服器具有使用者平面功能(UPF)- upf1和upf2。

[lab-deployer-cm-primary] SMI Cluster Deployer# show running-config clusters lab01-upf nodes labupf clusters lab01-upf nodes labupf maintenance false ssh-ip 10.192.30.7 kvm type vms upf1 upf software lab... . . . type upf exit vms upf2 upf software lab... type upf exit ucs-server cimc user admin . . . ucs-server cimc ip-address 10.10.10.10 . . . exit

通過SSH連線到UCS主機

連線到UCS主機並驗證具有scope fault的故障條目、show fault entries和show fault history。

labucs111-cmp1-11 /fault # show fault-entries Time Severity Description ------_____ 2021-03-26T10:10:10 major "DDR4_P1_C1_ECC: DIMM 19 is inoperable : Check or replace DIMM" show fault-history Time Severity Source Cause Description _____ _____ 2021 Dec 10 02:02:02 UTC info %CIMC EQUIPMENT_INOPERABLE "[F0174][cleared][equipment-inoperable][sys/rack-unit-1/board] IERR: A catastrophic fault has occurred on one of the processors: Cleared " 2021 Dec 1 01:01:01 UTC critical %CIMC EQUIPMENT_INOPERABLE "[F0174][critical][equipment-inoperable][sys/rack-unit-1/board] IERR: A catastrophic fault has occurred on one of the processors: Please check the processor's status. "