

排除CNDP解决方案中的服务器问题

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简介

本文档介绍如何在云本地部署平台(CNDP)中识别统一计算系统(UCS)并检查其上的故障条目。

背景信息

与硬件相关的警报在Ultra Cloud Core Subscriber Microservices Infrastructure(SMI)Cluster Manager(CM)Common Execution Environment(CEE)中报告。CM虚拟IP(VIP)中报告Kubernetes(K8s)、docker等相关信息。

警告： 请参阅网络设计和客户信息调查表(CIQ)以验证IP。

问题

show alerts中报告了错误“Equipment Alarm”。

- 登录CM-CEE，运行命令show alerts active detail和show alerts history summary，以便显示所有活动和历史记录警报。
- 注意警报中报告的服务器IP。

```
_____show alerts active detail
alerts active detail server-alert 9c367ce5ee48
severity      major
type          "Equipment Alarm"
startsAt      2021-10-27T17:10:37.025Z
source        10.10.10.10
summary       "DDR4_P1_C1_ECC: DIMM 5 is inoperable : Check or replace DIMM"
labels        [ "alertname: server-alert" "cluster: cr-chr-deployer" "description:
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	1m	10-192-0-13	labd0123 is down.
vm-alive	49b2c1941dc6	minor	09-02T10:25:38	1m40s	10-192-0-14	labd0123 is alive.

解决方案

确定托管在SMI CM服务器上的服务（容器）和/或虚拟机（VM）或基于内核的虚拟机（KVM），运行命令 `show running-config` 并查找服务器IP的配置。

1. 登录CM VIP(用户名：云用户)
2. 从OPS中心获取smi-cm命名空间
3. 登录到OPS中心，并检查集群配置
4. 确定在服务器上运行的节点和虚拟机

```
cloud-user@lab-deployer-cm-primary:~$ kubectl get svc -n smi-cm
```

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP
cluster-files-offline-smi-cluster-deployer	ClusterIP	10.102.200.178	<none>
iso-host-cluster-files-smi-cluster-deployer	ClusterIP	10.102.100.208	192.168.1.102
iso-host-ops-center-smi-cluster-deployer	ClusterIP	10.102.200.73	192.168.1.102
netconf-ops-center-smi-cluster-deployer	ClusterIP	10.102.100.207	192.168.184.193
ops-center-smi-cluster-deployer	ClusterIP	10.10.20.20	<none>
squid-proxy-node-port	NodePort	10.102.60.114	<none>

```
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
```

容器输出示例

在本例中，节点primary-1使用服务器。

```
[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的输出示例

服务器可用于基于KVM的VM。

在本示例中，服务器具有用户平面功能(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
type       kvm
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
```

SSH到UCS主机

连接到UCS主机并验证故障条目(范围故障)、显示故障条目和显示故障历史记录。

```
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. "
```