

Solucionar problemas do servidor na solução CNDP

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Introduction

Este documento descreve como identificar um Unified Computing System (UCS) e verificar entradas de falhas nele na Cloud Native Deployment Platform (CNDP).

Informações de Apoio

Os alertas relacionados ao hardware são relatados no ambiente de execução comum (CEE) do Gerente de cluster (CM) do Ultra Cloud Core Subscriber Microservices Infrastructure (SMI). Os Kubernetes (K8s), docker, etc., são relatados no CM virtual IP (VIP).

Caution: Consulte Projeto de rede e Questionário de informações do cliente (CIQ) para verificar os IPs.

Problema

O erro "Alarme do equipamento" é relatado em mostrar alertas.

- Efetue login no CM-CEE, execute o comando **show alert active detail** e **show alert history summary** para exibir todos os alertas ativos e históricos.
- Observe o IP do servidor relatado no alerta.

```
_____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.

Solução

Identifique os serviços (contêineres) e/ou a máquina virtual (VM) ou a máquina virtual baseada em kernel (KVM) hospedada no servidor no SMI, execute o comando **show running-config** e encontre a configuração para o IP do servidor.

1. Faça login no CM VIP (nome de usuário: usuário de nuvem)
2. Obtenha o IP do Centro OPS para o namespace **smi-cm**
3. Faça login no Centro OPS e verifique a configuração do cluster
4. Identificar nós e VMs que são executados no servidor

```
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>
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>
8008/TCP, 2024/TCP, 2022/TCP, 7681/TCP, 3000/TCP, 3001/TCP		98d	
squid-proxy-node-port	NodePort	10.102.60.114	<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
```

Exemplo de saída para contêineres

Neste exemplo, o servidor é usado pelo nó primary-1.

```
[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

```

Exemplo de saída para VMs

O servidor pode ser usado para a VM baseada em KVM.

Neste exemplo, o servidor tem UPFs (User Plane Functions, Funções do Plano do Usuário) - upf1 e 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 para o host UCS

Conecte-se ao host UCS e verifique as entradas de falha com **falha de escopo, mostre as entradas de falha e mostre o histórico de falhas.**

```

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. "