



在 MetroCluster IP 中意外重新启动节点

https://kb-cn.netapp.com/on-prem/ontap/MC/MC-KBs/Unexpected_node_reboot_in_MetroCluster_IP

Updated: Sat, 25 Apr 2026 08:52:33 GMT

适用于

- ONTAP 9
- MetroCluster IP
- AFF-A700
- X91146A T6 卡

问题

- 节点意外重新启动，没有问题指示
- SP 日志显示 HA 合作伙伴正在进行磁盘保留，这将在接管（CLAM 接管）后发生：

```
Apr 18 04:01:40 [NodeA1:clam.node.ooq:EMERGENCY]: Node (name=NodeA2, ID=1001) is out of "CLAM quorum" (reason=quorum update).
```

A disk reservation was detected on disk 7a.10.3P3 at 18Apr2023 04:01:44. Ordinarily, this will only occur if the partner node has taken over. This node will be shutdown.

HALT: HA partner has taken over disk reservations

Uptime: 47d18h37m13s

System rebooting...

- 在重启前不久报告 HA 互连超时，并且由于心跳丢失而触发接管：

```
Sun Apr 18 20:35:39 +0200 [NodeA1: DR_heartbeat_thread:
```

```
cf.ic.xferTimedOut:error]: HA interconnect: MCC_DRSOM transfer timed out.
```

```
Sun Apr 18 20:35:39 +0200 [NodeA1: cf_firmware: cf.ic.xferTimedOut:error]: HA interconnect: OFW transfer timed out.
```

```
Sun Apr 18 20:35:58 +0200 [NodeA1: cf_main:cf.fsm.takeover.noHeartbeat:alert]: Failover monitor: Takeover initiated after no heartbeat was detected from the partner node °
```