



ONTAP升级或重新启动后 集群端口关闭

https://kb-cn.netapp.com/on-prem/ontap/Ontap_OS/OS-KBs/Cluster_ports_down_after_ONTAP_upgra...

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适用场景

- ONTAP 9
- 自动化无中断升级(ANDU)
- 带有板载集群端口的FAS或AFF或ASA系统
- 有交换机或无交换机集群

问题描述

- 在ONTAP升级期间、首次重新启动到新的ONTAP版本后、集群端口显示为关闭状态。 在计划内或计划外重新启动给定节点时、也可能会出现这种情况。
- `storage failover show` 将显示以下状态问题描述：

Node	Partner	Possible	State Description
-----	-----	-----	-----
node-01	node-02	true	Connected to node-02, Partial giveback
node-02	node-01	true	Connected to node-01. Waiting for cluster applications to come online on the local node. Offline applications: mgmt, vlodb, vifmgr, bcomd, crs.

- `cluster image show-update-progress` 将显示一个典型输出：

```
Cluster::*> cluster image show-update-progress
```

Update Phase	Status	Estimated Duration	Elapsed Duration
-----	-----	-----	-----
Pre-update checks	completed	00:10:00	00:01:04
Data ONTAP updates	paused-on-error	01:32:00	1 days 02:39

Details:

Node name	Status	Status Description
-----	-----	-----
node-01	waiting	
node-02	failed	Error: Node "node-02" is not in "connected" state after giveback. Action: Use the "storage failover show" command to verify that node "node02" is in the "connected" state.

Status: Paused - An error occurred in "Data ONTAP updates" phase. The update cannot continue until the error has been resolved. Resolve all issues, then use the "cluster image resume-update" command to resume the update.

- UP节点的cluster ring show 输出将无法列出受影响节点的条目：

```
::*> cluster ring show
```

Node	UnitName	Epoch	DB Epoch	DB Trnxs	Master	Online
node-01	mgmt	6	6	41	node-01	master
node-01	vldb	6	6	3	node-01	master
node-01	vifmgr	6	6	30	node-01	master
node-01	bcomd	6	6	1	node-01	master
node-01	crs	6	6	1	node-01	master

Warning: Unable to list entries on node node-02. RPC: Couldn't make connection [from mgwd on node "node-01"
(VSID: -1) to mgwd at 169.254.200.103]

这些环将在受影响节点本地显示offline：

```
::*> cluster ring show
```

Node	UnitName	Epoch	DB Epoch	DB Trnxs	Master	Online
node-02	mgmt	0	3	1165	-	offline
node-02	vldb	0	3	39	-	offline
node-02	vifmgr	0	3	248	-	offline
node-02	bcomd	0	3	16	-	offline
node-02	crs	0	3	8	-	offline
node-02	mgmt	-	-	-	-	-

6 entries were displayed.

Warning: Unable to list entries on node node-01. RPC: Couldn't make connection [from mgwd on node "node-02"
(VSID: -1) to mgwd at 169.254.200.103]

5 entries were displayed.