HPE ProLiant DL380 Gen10 Server - VMware ESxi 6.5 Servers Running with 32GB Micro SD May Fail with All Paths Down (APD)

Table of contents

Issue

The system may fail with APD of the 32GB Micro SD card device intermittently.

- vobd log example - /var/run/log/vobd.log

2017-12-15T06:46:11.536Z: [scsiCorrelator] 220509354346us: [vob.scsi.scsipath.pathstate.dead] scsiPath vmhba32:C0:T0:L0 changed state from on
2017-12-15T06:46:11.536Z: [APDCorrelator] 220509354397us: [vob.storage.apd.start] Device or filesystem with identifier [eui.00e04c2020202000] has entered the All Paths Down state.
2017-12-15T06:46:11.536Z: [APDCorrelator] 220511331086us: [esx.problem.storage.apd.start] Device or filesystem with identifier [eui.00e04c2020202000] has entered the All Paths Down state.
2017-12-15T06:46:11.548Z: [scsiCorrelator] 220511343019us: [esx.problem.storage.connectivity.lost] Lost connectivity to storage device eui.00e04c2020202000. Path vmhba32:C0:T0:L0 is down. Affected datastores: "".
2017-12-15T06:48:31.539Z: [APDCorrelator] 220649356498us: [vob.storage.apd.timeout] Device or filesystem with identifier [eui.00e04c2020202000] has entered the All Paths Down Timeout state after being in the All Paths Down state for 140 seconds. I/Os will now be fast failed.
2017-12-15T06:48:31.539Z: [APDCorrelator] 220651334405us: [esx.problem.storage.apd.timeout] Device or filesystem with identifier [eui.00e04c2020202000] has entered the All Paths Down Timeout state after being in the All Paths Down state for 140 seconds. I/Os will now be fast failed.

- Software configuration

VMware ESXi 6.5.0 build-6765664
smartpqi_1.0.0.1060-1OEM.650.0.0.4598673

Environment

- HPE ProLiant DL380 Gen10 Server
- VMware ESXi 6.5.0 build-6765664
- smartpqi_1.0.0.1060-1OEM.650.0.0.4598673
- Product Number : 700139-B21 SBOM
- Description : HPE 32GB MICROSD MAINSTREAM FLASH MEDIA KIT

Cause

The smartpqi driver issue.

Resolution

Updating the smartpqi driver to the version 1.0.1.244-1 resolves the issue.
Click here to download the drivers.