Memory troubleshooting

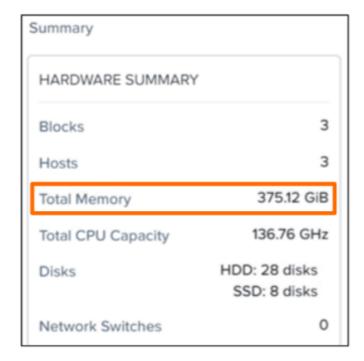
Memory issues and identification

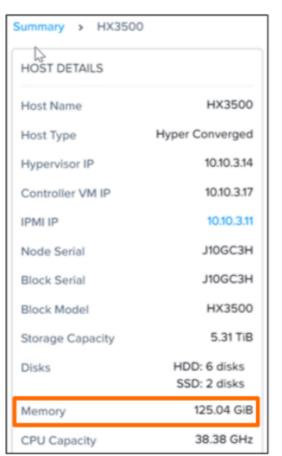
Memory troubleshooting overview

Memory issues can cause the customer's system to operate less efficiently or to crash. When diagnostic memory issues occur, the following tools can be used to collect logs for analysis:

- Prism: check for alerts and total installed memory capacity
- IMM or XCC: collect service data
- OneCLI: collect FFDC logs
 The following section covers general memory issues and how to identify memory in the hypervisor.

In Prism, go to **Hardware** → **Diagram** to check the total memory of the system and each node.







Memory issues

Faulty or missing memory: It is possible for a DIMM to fail entirely, resulting in the system seeing it as missing – for example, a node with 512 GB (16*32 GB) of installed memory only showing 448 GB present. In this case, the BIOS has detected that one DIMM has failed and is masking out the channel where it is located, allowing the host to start and operate using the working memory channels.

This scenario commonly presents after a system restart or power cycle, and when it occurs, customers might see an alert in Prism stating that the amount of memory in the node is incorrect. This issue usually comes with an error code – for example, **A1052**, which signifies that the available memory for the node is inconsistent with the other nodes in the block/cluster.

Note: For error code information, users can refer to the Nutanix support portal:

https://portal.nutanix.com/#/page/docs/details?targetId=Web-Console-Guide-Prism-v59:ale-alert-health-Hardware-CVM-auto-r.html



Users can also identify system memory information from the hypervisor. (Click the tabs to see details.)

AHV

ESXi

Hyper-V



Users can also identify system memory information from the hypervisor. (Click the tabs to see details.)

AHV

ESXi

Hyper-V

Users can also identify system memory information from the hypervisor. (Click the tabs to see details.)

AHV

ESXi

Hyper-V

Users can also identify system memory information from the hypervisor. (Click the tabs to see details.)

AHV

ESXi

Hyper-V

Using command

```
#get-wmiobject -class "Win32_PhysicalMemory" | foreach-object {write-
output $_.Manufacturer $_.PartNumber } |
sort-object | get-unique
```