



# CVE-2022-31603

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## CVE-2022-31603

Source: Mitre

Source: NIST

CVE.ORG

Print: PDF



Certain versions of **Dgx A100** from **Nvidia** contain the following vulnerability:

NVIDIA DGX A100 contains a vulnerability in SBIOS in the IpSecDxe, where a user with high privileges and preconditioned IpSecDxe global data can exploit improper validation of an array index to cause code execution, which may lead to denial of service, data integrity impact, and information disclosure.

CVE-2022-31603 has been assigned by psirt@nvidia.com to track the vulnerability - currently rated as **MEDIUM** severity.

Affected Vendor/Software: **NVIDIA - NVIDIA DGX A100** version **Versions prior to 22.5.5**

CVSS3 Score: **6.7 - MEDIUM**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>LOCAL</b>     | <b>LOW</b>             | <b>HIGH</b>         | <b>NONE</b>         |
| Scope            | Confidentiality Impact | Integrity Impact    | Availability Impact |
| <b>UNCHANGED</b> | <b>HIGH</b>            | <b>HIGH</b>         | <b>HIGH</b>         |

CVSS2 Score: **4.4 - MEDIUM**

| Access Vector          | Access Complexity | Authentication      |
|------------------------|-------------------|---------------------|
| <b>LOCAL</b>           | <b>MEDIUM</b>     | <b>NONE</b>         |
| Confidentiality Impact | Integrity Impact  | Availability Impact |
| <b>PARTIAL</b>         | <b>PARTIAL</b>    | <b>PARTIAL</b>      |

## CVE References

| Description                                             | Tags                       | Link        |
|---------------------------------------------------------|----------------------------|-------------|
| Security Bulletin: NVIDIA DGX A100 Firmware - June 2022 | <b>nvidia.custhelp.com</b> | <b>MISC</b> |

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There are currently no QIDs associated with this CVE

Known Affected Configurations (CPE V2.3)

| Type                                            | Vendor                 | Product                           | Version | Update | Edition | Language |
|-------------------------------------------------|------------------------|-----------------------------------|---------|--------|---------|----------|
| Hardware                                        | <a href="#">Nvidia</a> | <a href="#">Dgx A100</a>          | -       | All    | All     | All      |
| Operating System                                | <a href="#">Nvidia</a> | <a href="#">Dgx A100 Firmware</a> | All     | All    | All     | All      |
| cpe:2.3:h:nvidia:dgx_a100:-:*:*:*:*:*:          |                        |                                   |         |        |         |          |
| cpe:2.3:o:nvidia:dgx_a100_firmware:*:*:*:*:*:*: |                        |                                   |         |        |         |          |

No vendor comments have been submitted for this CVE

Social Mentions

| Source     | Title                                                                                                                                                                | Posted (UTC)        |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| @CVEreport | CVE-2022-31603 : NVIDIA DGX A100 contains a vulnerability in SBIOS in the IpSecDxe, where a user with high privileg... <a href="#">twitter.com/i/web/status/1...</a> | 2022-07-04 18:17:45 |
| /r/netcve  | <a href="#">CVE-2022-31603</a>                                                                                                                                       | 2022-07-04 19:38:57 |

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