

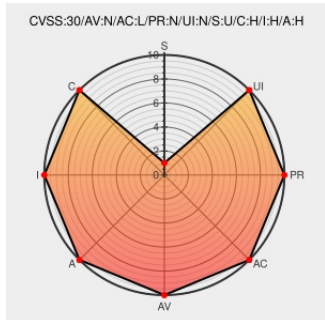


# CVE-2017-18174

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## CVE-2017-18174

[Source: Mitre](#)[Source: NIST](#)[CVE.ORG](#)[Print: PDF](#) 

Certain versions of [Linux Kernel](#) from [Linux](#) contain the following vulnerability:

In the Linux kernel before 4.7, the `amd_gpio_remove` function in `drivers/pinctrl/pinctrl-amd.c` calls the `pinctrl_unregister` function, leading to a double free.

CVE-2017-18174 has been assigned by [M](#) [cve@mitre.org](mailto:cve@mitre.org) to track the vulnerability - currently rated as **CRITICAL** severity.

CVSS3 Score: **9.8 - CRITICAL**

| Attack Vector    | Attack Complexity      | Privileges Required | User Interaction    |
|------------------|------------------------|---------------------|---------------------|
| <b>NETWORK</b>   | <b>LOW</b>             | <b>NONE</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: **7.5 - HIGH**

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

## CVE References

| Description                                                                              | Tags                                                                                       | Link                              |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------|
| USN-3848-2: Linux kernel (Xenial HWE) vulnerabilities   Ubuntu security notices   Ubuntu | <a href="https://usn.ubuntu.com/text/html">usn.ubuntu.com</a><br><a href="#">text/html</a> | <a href="#">UBUNTU USN-3848-2</a> |

USN-3848-1: Linux kernel vulnerabilities | Ubuntu security notices | Ubuntu

[usn.ubuntu.com](#)[text/html](#)

UBUNTU USN-3848-1

pinctrl: amd: Use devm\_pinctrl\_register() for pinctrl registration · torvalds/linux@251e22a · GitHub

[Patch](#)[Third Party Advisory](#)[github.com](#)[text/html](#)

MISC  
[github.com/torvalds/linux/commit/251e22abde21833b3d29577e4d8c7aacc650eee](#)

kernel/git/torvalds/linux.git - Linux kernel source tree

[Patch](#)[Third Party Advisory](#)[git.kernel.org](#)[text/html](#)

MISC [git.kernel.org/cgiit/linux/kernel/git/torvalds/linux.git/commit/?id=8dca4a41f1ad65043a78c2338d9725f859c8d2c3](#)

kernel/git/torvalds/linux.git - Linux kernel source tree

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MISC [git.kernel.org/cgiit/linux/kernel/git/torvalds/linux.git/commit/?id=251e22abde21833b3d29577e4d8c7aacc650eee](#)

pinctrl/amd: Drop pinctrl\_unregister for devm\_registered device · torvalds/linux@8dca4a4 · GitHub

[Patch](#)[Third Party Advisory](#)[github.com](#)[text/html](#)

MISC  
[github.com/torvalds/linux/commit/8dca4a41f1ad65043a78c2338d9725f859c8d2c3](#)

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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 |
| Operating System                               | <a href="#">Linux</a> | <a href="#">Linux Kernel</a> | All     | All    | All     | All      |
| Operating System                               | <a href="#">Linux</a> | <a href="#">Linux Kernel</a> | All     | All    | All     | All      |
| <div>cpe:2.3:o:linux:linux_kernel:*****:</div> |                       |                              |         |        |         |          |
| <div>cpe:2.3:o:linux:linux_kernel:*****:</div> |                       |                              |         |        |         |          |

No vendor comments have been submitted for this CVE

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