

????732???1?root?????—Linux?????????

2026?4?30? 10:25 ??

2026 ? 4 ? 29 ?????????????????????????????????Linux???? CVE-2026-31431????"Copy Fail"
 ????? Linux ?????? authencesn???????????????????????????? AF_ALG ??? splice()
 ?????????????page cache???????????????????? root???? 2017 ????????????? Linux ?????EXP ???
 ?????????????????????????

Description

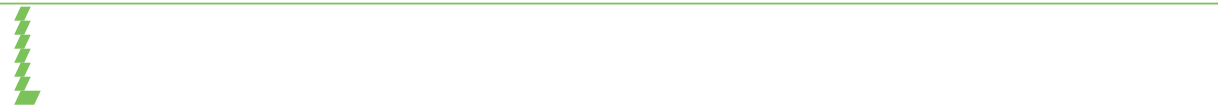
```
Linux ?????? authencesn? 2017 ??????? AEAD????????????in-place????????????????????page
cache????????????????????scatterlist???????? AF_ALG ?????????? API??? splice()
???????????????????? setuid ??????? /usr/bin/su????? 4 ????????????????????? root shell?
????????????????????race window????????????????????
```

- **????? root**????????????????????? root?
- **?????Kubernetes /** ???
- **CI/CD** **?????GitHub Actions?GitLab Runner?Jenkins Agent** ?????????? CI ????????????? PR ???
Runner ???? root ???
- **????????Notebook?Serverless?Agent** ?????????????????????????? root?
- **?????????????????** 2017 ?????????? | linux ??????????

???????



?????????
?????????
?????????
????????????????
????????????????
????????????????
????????EXP ?????732 ???100% ???
????????????????????? algif_aead ??



????
Affects
02

2017 ?????????????? Linux ??????????

???	?????????
Ubuntu 24.04 LTS	6.17.0-1007-aws ???
Amazon Linux 2023	6.18.8-9.213.amzn2023 ???
RHEL 14.3	6.12.0-124.45.1.el10_1 ???
SUSE 16	6.12.0-160000.9-default ???

Debian / Arch / Fedora / Rocky / Alma / Oracle

??????????

????

Solution

03

??????

????? mainline commit `a664bf3d603d`????????????????????

```
# Ubuntu / Debian
apt update && apt upgrade linux-image-$(uname -r)
# RHEL / CentOS / Rocky / Alma
dnf update kernel
# Amazon Linux
yum update kernel
# SUSE
zypper update kernel-default
```

?? commit?

```
grep -r "a664bf3d603d" /proc/version 2>/dev/null || uname -r
# ?????????commit????????????????????
```

??????

?? `algif_aead`????????????????

```
# ????????????
echo "install algif_aead /bin/false" > /etc/modprobe.d/disable-algif.conf
# ????????????
rmmod algif_aead 2>/dev/null || true
```

algif_aead

- dm-crypt/LUKS?kTLS?IPsec/XFRM?OpenSSL/GnuTLS/NSS SSH?— API? AF_ALG?
- afaalg OpenSSL? aead/skcipher/hash lsof | grep AF_ALG? ss -xa AF_ALG?

???

Reproduction

04

???

Timeline

05

??	??
2026 ? 3 ? 23 ?	Linux
2026 ? 3 ? 24 ?	
2026 ? 3 ? 25 ?	
2026 ? 4 ? 1 ?	commit a664bf3d603d?? mainline
2026 ? 4 ? 22 ?	CVE-2026-31431
2026 ? 4 ? 29 ?	EXP
2026 ? 4 ? 30 ?	

?????

- [1].<https://copy.fail/>
- [2].<https://github.com/theori-io/copy-fail-CVE-2026-31431>

