USN-4763-1: Pillow vulnerabilities

It was discovered that Pillow incorrectly handled certain Tiff image files.
If a user or automated system were tricked into opening a specially-crafted
Tiff file, a remote attacker could cause Pillow to crash, resulting in a
denial of service, or possibly execute arbitrary code. This issue only
affected Ubuntu 20.04 LTS and Ubuntu 20.10. (CVE-2021-25289, CVE-2021-25291)
It was discovered that Pillow incorrectly handled certain Tiff image files.
If a user or automated system were tricked into opening a specially-crafted
Tiff file, a remote attacker could cause Pillow to crash, resulting in a
denial of service, or possibly execute arbitrary code. (CVE-2021-25290)

It was discovered that Pillow incorrectly handled certain PDF files. If a
user or automated system were tricked into opening a specially-crafted
PDF file, a remote attacker could cause Pillow to hang, resulting in a
denial of service. This issue only affected Ubuntu 18.04 LTS, Ubuntu 20.04
LTS, and Ubuntu 20.10. (CVE-2021-25292)

It was discovered that Pillow incorrectly handled certain SGI image files.
If a user or automated system were tricked into opening a specially-crafted
SGI file, a remote attacker could possibly cause Pillow to

crash,
resulting in a denial of service. This issue only affected Ubuntu 18.04
LTS, Ubuntu 20.04 LTS, and Ubuntu 20.10. (CVE-2021-25293)

Jiayi Lin, Luke Shaffer, Xinran Xie, and Akshay Ajayan discovered that
Pillow incorrectly handled certain BLP files. If a user or automated system
were tricked into opening a specially-crafted BLP file, a remote attacker
could possibly cause Pillow to consume resources, resulting in a denial of
service. This issue only affected Ubuntu 18.04 LTS, Ubuntu 20.04 LTS, and
Ubuntu 20.10. (CVE-2021-27921)

Jiayi Lin, Luke Shaffer, Xinran Xie, and Akshay Ajayan discovered that
Pillow incorrectly handled certain ICNS files. If a user or automated
system were tricked into opening a specially-crafted ICNS file, a remote
attacker could possibly cause Pillow to consume resources, resulting in a
denial of service. (CVE-2021-27922)

Jiayi Lin, Luke Shaffer, Xinran Xie, and Akshay Ajayan discovered that
Pillow incorrectly handled certain ICO files. If a user or automated
system were tricked into opening a specially-crafted ICO file, a remote
attacker could possibly cause Pillow to consume resources, resulting in a
denial of service. (CVE-2021-27922)