

Vulnerability Analysis

Vulnerability analysis at the [CERT Coordination Center®](#) (CERT/CC) consists of a variety of efforts, with primary focus on coordinating vulnerability [disclosure](#) and developing vulnerability discovery [tools](#) and techniques. Publicly available resources include:

- Public vulnerability information: [Vulnerability Notes](#) and [vulnerability data archive](#)
- [Coordination and disclosure guidance](#) for security [researchers](#) and [vendors](#)
- [The CERT Guide to Coordinated Vulnerability Disclosure](#) in its entirety
- [Vulnerability Disclosure Policy Templates](#) for use in creating your own customized disclosure policy
- [Vulnerability Reporting Form](#) (please be familiar with the [guidelines](#) before reporting)
- Open-source vulnerability discovery and analysis [tools](#)
 - [CERT BFF - Basic Fuzzing Framework](#) — The CERT Basic Fuzzing Framework (BFF) is a software testing tool that finds defects in applications that run on the Linux and Mac OS X platforms. BFF performs mutational fuzzing on software that consumes file input.
 - [CERT FOE - Failure Observation Engine](#) — The CERT Failure Observation Engine (FOE) is a software testing tool that finds defects in applications that run on the Windows platform. FOE performs mutational fuzzing on software that consumes file input.
 - [CERT Tapioca](#) — CERT Tapioca is a network-layer man-in-the-middle (MITM) proxy framework based on mitmproxy <http://mitmproxy.org/>. CERT Tapioca is installable on Red Hat Enterprise Linux, CentOS, Fedora, Ubuntu, OpenSUSE, and Raspbian.
 - [CERT Triage Tools](#) — The CERT Triage Tools project has been transitioned to the GDB 'exploitable' plugin <https://github.com/jfoote/exploitable> project on GitHub.
 - [CERT Vulnerability Data Archive and Tools](#) — The CERT Vulnerability Data Archive contains nearly all of the non-sensitive vulnerability data collected by the CERT/CC, from the inception of the vulnerability notes database (approximately May 1998) to the date the archive was prepared, as noted above in the Change Log.
 - [Dranner](#) — Dranner is a tool that enables users to examine effective techniques for fuzz testing ActiveX controls.

Recent Blog Posts



[Kerberos relaying with kbrelayx and mitm6](#)

[Will Dormann](#) posted on Feb 24, 2022

Overview Dirk-jan Mollema published a blog post that shows how an attacker on the same (V)LAN as a machine connected to an active directory where an AD CS server is present can obtain a kerberos ticket to impersonate a domain admin on the victim system: <https://dirkjanm.io/relaying-kerberos-over-dns-with-kbrelayx-and-mitm6/> <https://dirkjanm.io/relaying-kerberos-over-dns-with-kbrelayx-and-mitm6/> Using the steps outlined, an attacker can execute code with SYSTEM privileges on the victim system....



[Finding Privilege Escalation Vulnerabilities in Windows using Process Monitor](#)

[Will Dormann](#) posted on Jun 21, 2021

Overview This post will explain how to find privilege escalation vuls on Windows that no one appears to be looking for, because it's been pretty easy to find a bunch of them. After explaining how to find them, I'll introduce some defenses that can partly mitigate the problem in different ways. But what I'd like to see change is for developers to start looking for these vuls in the way I describe so that they stop introducing them in the first place....

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