F#RTINET. **OUTBREAK ALERTS** 3CX Supply Chain Attack 3CX VoIP DesktopApp Campaign & Supply Chain Threats https://www.3cx.com/blog/news/desktopapp-security-alert/ CVEs: CVE-2023-29059 Security researchers observed that the threat actors abused a popular business communication software by 3CX. The reports mention that a version of the 3CX VoIP (Voice over Internet Protocol) desktop client was trojanized and is being used to attack multiple organizations.

Background 3CXDesktopApp is a voice and video conferencing Private Automatic Branch Exchange (PABX) enterprise call

routing software developed by 3CX, a business communications software company. The company website claims that 3CX has 600,000 customers and over 12 million daily users. 3CX customers are in multiple sectors such as automotive, hospitality, food & beverage, Managed Information Technology Service Provider (MSP) and manufacturing.

> March 30th, 2023: 3CX posted an alert at: https://www.3cx.com/blog/news/desktopapp-security-alert/

https://www.cisa.gov/news-events/alerts/2023/03/30/supply-chain-attack-against-3cxdesktopapp **Latest Developments**

Apr 27, 2023: Critical Infrastructure Organizations Compromised through Trojanized X Trader Software

According to the vendor, "this appears to have been a targeted attack from an Advanced Persistent Threat,

what we have seen in the past like SolarWinds incident or the Kaseya VSA ransomware attack.

perhaps even state sponsored, that ran a complex supply chain attack." Due to widespread usage of the software

across different sectors and organizations, this has the potential to be a massive supply chain attack similar to

PROTECT

Reconnaissance

FortiSASE

Weaponization

AV **Blocks malware related to 3CX Supply Chain Attack**

DB 91.01895 DB 91.01895 DB 91.01895 DB 91.01895

FortiProxy DB 91.01895 **App Control**

DB 23.528

Vulnerability

Detects installed malicious version of 3CX DesktopApp

FortiNDR

DB 91.01895

Blocks malware related to 3CX Supply Chain Attack **FortiEDR** DB 91.01895

FortiClient

v4.0+

Detects and Blocks 3CX DesktopApp Supply Chain Backdoor traffic **FortiGate**

DB 23.525

Web App Security

Exploitation

IPS

FortiWeb

Detects and Blocks 3CX DesktopApp Supply Chain Backdoor traffic

FortiNDR

DB 23.525

FortiADC

DB 23.525

FortiProxy

DB 23.525

FortiEDR v5.0+

Installation

FortiGate

DB 27.21239

Web Filter **Blocks known IOCs related to 3CX Supply Chain Attack**

Post-execution Behavior Dectection Engine detects and blocks malicious activities related to 3CX Attack **FortiEDR**

FortiGate

Blocks known C2 servers related to 3CX Supply Chain Attack

Find and correlate important information to identify an outbreak, the following updates are available to raise alert and generate reports: **Outbreak Detection**

FortiClient

DB 1.10

IOC

Threat Hunting

FortiEDR FortiAnalyzer v4.0+ v6.4+

FortiSIEM

DB 313

Automated Response

FortiXDR

FortiRecon: Incident Response ACI

RECOVER

Assisted Response Services

InfoSec Services Security readiness and awareness training for SOC teams, InfoSec and general employees.

Response Readiness

Security

Rating

CISA Alert

Security Week

Security reconnaissance and penetration testing services, covering both internal & external attack vectors, including those introduced internally via software supply chain.

FortiRecon:

EASM

Identify processes and assets that need protection:

Attack Surface Monitoring (Inside & Outside)

Additional Resources FortiGuard Threat Signal https://www.fortiguard.com/threat-signal-report/5102/

The Hacker News https://thehackernews.com/2023/03/3cx-desktop-app-targeted-in-supply.html **Bleeping Computer** https://www.bleepingcomputer.com/news/security/hackers-compromise-3cx-desktop-app-in-a-supply-chain-attack/

Learn more about FortiGuard Outbreak Alerts



FortiADC

DB 91.01895

FortiCWP

DB 91.01895

March 30th 2023: CISA released an alert at:

Announced

FortiGuard Labs has released updated Antivirus definitions and blocked all the known IoCs including Domains, C2 servers and IPs related to the attack. FortiGuard AI/ML engine is able to prevent and block download of malware

payload automatically without any human interaction. FortiGuard Labs is continually monitoring the situation and will provide new information as it becomes available.

https://www.fortiguard.com/threat-signal-report/5150/

FortiMail

FortiCASB

DB 91.01895

Countermeasures across the security fabric for protecting assets, data and network from cybersecurity

Delivery

FortiGate FortiClient

Provides visibility into 3CX application usage in real time on the network **FortiGate**

DB 1.432 AV (Pre-filter)

FortiSandbox

DB 91.01895

Blocks malware based on Community Cloud Query FortiSandbox

Behavior Detection

FortiSASE

DB 23.525

DB 0.00347 Pre-execution Behavior Dectection Engine prevents the malicious app from downloading the 3CX payload

v5.0+

Botnet C&C

DB 3.00219

C2

DETECT

Action

FortiAnalyzer

DB 1.00097



Blocks known IOCs related to 3CX Supply Chain Attack

RESPOND

Experts to assist you with analysis, containment and response activities.

Services that can automatically respond to this outbreak.

Develop containment techniques to mitigate impacts of security events:

FortiSIEM

v6.6+

FortiSOCaaS

Improve security posture and processes by implementing security awareness and training, in preparation for (and recovery from) security incidents:

IDENTIFY

https://www.cisa.gov/news-events/alerts/2023/03/30/supply-chain-attack-against-3cxdesktopapp https://www.securityweek.com/3cx-confirms-supply-chain-attack-as-researchers-uncover-mac-component/

F