

# Backdoor exploit against telecom systems

Original report published on: October 01, 2025

## Executive Summary

Since April 2024, an Indonesian telecommunications entity has been compromised via a backdoor deployed by a threat actor that has been active since 2019 with a history of targeting telecommunications and government sectors. The backdoor is capable of harvesting user credentials on systems used for network-performance monitoring.

Based on its long-term deployment (from at least April 2024 to September 2025), the threat actor is likely to continue using this backdoor to compromise high-value credentials in future operations, particularly against Southeast Asia-based telecommunications entities.

## Background

The threat actor targets privileged credential use for performance-monitoring by engineers or vendors to access critical network infrastructure. By replacing the legitimate *pam\_unix.so* module with a malicious variant, the backdoor enables the attacker to harvest user credentials continuously for unauthorised access, capturing credentials in clear text and storing them in a file at */usr/share/awk/nullfile.awk*.

While credential harvesting activity was observed, the monitoring of Nokia Radio Access Network (RAN) traffic and the logging of traffic into packet-capture files were performed by a likely legitimate cron job running once per hour. This cron job invokes the *sudo* command during execution, which results in the periodic loading of *pam\_unix.so*. The hourly execution of the cron job should not be interpreted as evidence that the backdoor was intended to maintain persistence.

A second variant of the backdoor stores captured credentials in a separate local file.

## Detection and Mitigation

IMDA recommends organisations perform continual testing and validation of existing security controls to ensure detection and prevention against the backdoor identified in this advisory:

- Scan for Indicators of Compromise to detect threat activities ([Annex A](#)).
- Refer to the MITRE ATT&CK techniques in this advisory ([Annex B](#)):
  - Create, test and validate detection rules against the threat behaviours.
  - Validate and deny/disable processes, ports and protocols that have no business need.
- Monitor file creation events in Linux file path */usr/share/vim/.null* and */usr/share/awk/nullfile.awk*.
- Implement file integrity monitoring for critical system libraries, including *pam\_unix.so* to identify any unauthorised changes or tampering.
- Enforce multi-factor authentication (MFA) for privileged access, regularly rotate passwords and enforce strong password policies for critical infrastructure systems to minimise the risk of credential compromise.
- Practice whitelisting for access to management plane and review access logs to detect unauthorised login attempts.
- Validate and add malicious file hashes to blocklist in anti-virus and/or Endpoint Detection & Response (EDR) and eXtended Detection and Response (XDR) solutions.

IMDA encourages organisations to conduct thorough analyses to identify potential risks and assess their potential impact prior to deploying defensive measures.

## Annex A - Indicators of Compromise

<b>SHA256 Hash</b>	<b>Description</b>
e5d14406c572b2bc6cb048ead718041c3f44b159078f97b4cb47cde26bff1fd6	Malware
e098f7a14eee6043708fdfaf2badd8fd12d8598bb2f2378caa36e0db07922571	Backdoor
4beed2c10155381b943ca15cbaf5ea23b69dd87eed18fc72482493e290a6c46f	Backdoor

## Annex B - MITRE ATT&CK Tactics and Techniques

Tactic	Technique ID	Technique Name
Persistence	T1574.006	Hijack Execution Flow: Dynamic Linker Hijacking
Defence Evasion	T1036.005	Masquerading: Match Legitimate Name or Location
Credential Access	T1003	OS Credential Dumping
	T1556.003	Modify Authentication Process: Pluggable Authentication Modules
Collection	T1074.001	Data Staged: Local Data Staging