مجلس الأمن السيبراني
CYBER SECURITY COUNCIL
United Arab Emirates

Vulnerability in Docker Desktop for macOS

Tracking #:432317176

Date:02-05-2025

EXECUTIVE SUMMARY:

The UAE Cyber Security Council has observed a vulnerability in Docker Desktop for macOS that could allow unauthorized access to Docker registries, potentially leading to the deployment of malicious container images and supply chain attacks.

TECHNICAL DETAILS:

A vulnerability has been identified in Docker Desktop for macOS that allows local authenticated users to bypass Registry Access Management (RAM) policies when sign-in is enforced via a macOS configuration profile. This flaw enables users to access and pull container images from any Docker registry, including those not authorized or vetted by the organization, increasing the risk of supply chain attacks.

Vulnerability Details:

- **CVE:** CVE-2025-4095
- **CVSS 4.0 Base Score:** 4.3 (Medium)
- When organizations enforce Docker Desktop sign-in using a macOS configuration profile, the intended RAM policies are not properly applied. This allows users to bypass registry restrictions and pull images from unauthorized sources, potentially introducing malicious or compromised containers into the environment.

Impact

- **Supply Chain Risk:** Potential for untrusted or malicious images to enter development and production environments.
- **Compliance Violation:** Bypassing registry controls may breach organizational security policies.
- **Business Disruption:** Increased risk of malware, ransomware, or backdoors being introduced via compromised images.

Affected Versions:

- **Docker Desktop for macOS:**
  Versions **4.36.0** up to (but not including) **4.41.0**

Fixed Versions:

- Docker Desktop for macOS **version 4.41.0** or later.

RECOMMENDATIONS:

The UAE Cyber Security Council recommends updating the affected versions to the fixed or latest versions released by Docker.

Kindly circulate this information to your subsidiaries and partners as well as share with us any relevant information and findings.

The UAE Cyber Security Council extends its appreciation for the continued collaboration.

REFERENCES:

- https://nvd.nist.gov/vuln/detail/CVE-2025-4095