



CYBER ADVISORY

TLP:CLEAR

15 October 2024

### Keycloak Broken Access Control Vulnerability

CVE-2024-3656

Keycloak

Proof of Concept

High

The California Cybersecurity Integration Center (Cal-CSIC) has become aware of a high severity vulnerability known as CVE-2024-3656. The Keycloak vulnerability affects all versions up to 24.05.<sup>1</sup> A Proof of Concept demonstrates how any user can perform certain API actions reserved for Keycloak administrators.<sup>2</sup> Successful exploitation of the Keycloak vulnerability may lead to data breach or system compromise.<sup>3</sup>

The Cal-CSIC recommends immediately upgrading to Keycloak 26.

For further information on applying upgrades please refer to [Keycloak's upgrade documentation](#).

#### Organization, Source, Reference, and Dissemination Information

##### Organization Description

California Government Code § 8586.5 established the California Cybersecurity Integration Center (Cal-CSIC) as the central organizing hub of state government's cybersecurity activities, including information sharing, intelligence analysis, incident response, and overarching cybersecurity strategy. The Cal-CSIC is responsible for reducing the likelihood and severity of cyber incidents that could damage California's economy, critical infrastructure, and public or private sector networks in our state.

##### Customer Feedback

If you need further information about this issue, contact the Cal-CSIC at our email address [CalCSIC@caloes.ca.gov](mailto:CalCSIC@caloes.ca.gov) or by telephone at (833) REPORT1. To help us identify ways to better assist you, please submit feedback [calcsic@caloes.ca.gov](mailto:calcsic@caloes.ca.gov).

##### Source Summary Statement

This report was compiled from a variety of sources, predominately open-source reporting.

##### Handling Caveats

**Traffic Light Protocol (TLP):** Recipients may share TLP:CLEAR information with the world; there is no limit on disclosure. Subject to standard copyright rules, TLP:CLEAR information may be shared without restriction.

CAL-CSIC-202410-005

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## CALIFORNIA CYBERSECURITY INTEGRATION CENTER

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|--------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Information Needs</b> | HSEC 1.1; HSEC 1.2; HSEC 1.5; HSEC 1.8; HSEC 1.10; STAC KIQ 1.1; KIQ 1.2; KIQ 1.3; KIQ 1.4; KIQ 1.5 |
|--------------------------|-----------------------------------------------------------------------------------------------------|

<sup>1</sup> National Institute of Standards and Technology. (2024). CVE-2024-3656. NVD - Vulnerability Database. "<https://nvd.nist.gov/vuln/detail/CVE-2024-3656>"; Accessed 14 October 2024.

<sup>2</sup> GitHub. (2024). CVE-2024-3656. GitHub. "<https://github.com/h4x0r-dz/CVE-2024-3656?tab=readme-ov-file>"; Accessed 14 October 2024.

<sup>3</sup> Red Hat. (2024). CVE-2024-3656. Red Hat Customer Portal. "<https://access.redhat.com/security/cve/CVE-2024-3656>"; Accessed 14 October 2024.

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