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Preview Draft

EBS Integration Kit - 2.3.1.x

Deployment Guide - Deploying the EIK in the PingFederate Server

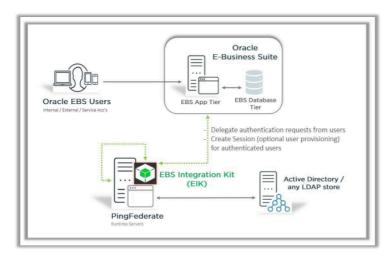
CONTENTS

- EBS INTEGRATION KIT DESCRIPTION
- FFATURES
- BENEFITS
- SYSTEM REQUIREMENTS
- OVERVIEW OF THE FLOW
- DEPLOYMENT AND CONFIGURATION OF PINGFEDERATE
- CONFIGURATION OF OAUTH SERVER
- CONFIGURE SSL SERVER CERTIFICATE
- EIK DEPLOYMENT IN PINGFEDEARTE
- EIKAUTH CONFIG FILE GENERATION
- EBS DATA SOURCE (DBCX) FILE CREATION
- DEPLOYING THE LOG4J2.XML FILE
- DEPLOYING THE CACERTS FILE
- DEPLOYING THE SECURITY.PROPERTIES FILE
- DEPLOYING EBSAuth.war FILE
- SYSTEM PROFILE PARAMETERS CHANGES IN EBS
- SYSTEM PROFILE CHANGES
- SSO TESTING FOR ORACLE EBS

EBS INTEGRATION KIT DESCRIPTION

PingFederate as an Identity Federation product includes adapters and integration kits that simplify integrations with Identity Stores as well as Applications. The Oracle EBS solution uses these capabilities to enable Single Sign-On. The EBS INTEGRATION KIT (EIK) from LikeMinds Consulting provides a simple deployment path with PingFederate to enable single sign-on (SSO) to Oracle E-Business Suite.

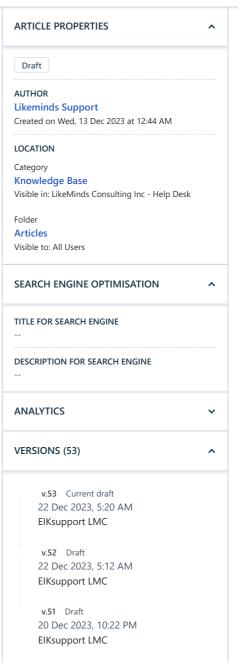
How does the EBS Integration Kit work?



The EBS Integration Kit is a light-weight java application which can be deployed in the PingFederate jetty-container which eliminates the need for dedicated server/hardware. EIK is OpenID Connect Compliant as a resource server and can be configured with PingFederate to receive Authentication and Authorization tokens. The EBS Integration Kit communicates with the Oracle E-Business Suite Database for Session creation and optional user-provisioning if required.

FEATURES

· Works seamlessly with PingFederate



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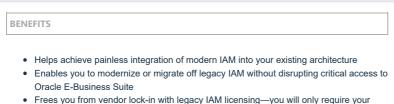


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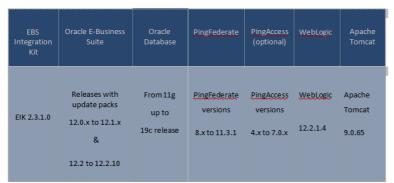


Requires no provisioning of additional hardware components

SYSTEM REQUIREMENTS

EBS license

- Java JDK 1.8 (Recommended Version)
- PingFederate 8 and above
- EBS KIT package with a valid license file.



OVERVIEW OF THE FLOW

- When a user tries to login, his/her credentials are sent to Pingfederate.
- Pingfederate validates the entered credentials against the configured Authentication Store (i.e., any LDAP directory).
- The existence of the authenticated user will be checked against the EBS Database. If
 the user does exist in the EBS DB, an EBS session would be created, and the user
 would be allowed access to the requested page in EBS.
- If the authenticated user does not exist in the EBS DB, the user would not be authorized to access the EBS Application.
- If Just-In-Time Provisioning is enabled, authenticated users not present in the EBS DB would be provisioned by the EBS IKT, and EBS Sessions would then be created, thereby giving access to the EBS Application.

DEPLOYMENT AND CONFIGURATION OF PINGFEDERATE

PingFederate is a federation server that provides web single sign-on and API security for the resources in your organization.

CONFIGURATION OF OAUTH SERVER

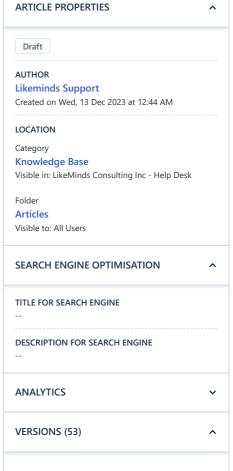
Pre-requisite

- PingFederate application with IdP and OAuth/OIDC roles enabled.
- Authorization server setup in PingFederate OAuth server setting.
- A configured ping IdP adapter and/or authentication policy contract policy if required for authentication and grant mapping.

OAuth / OIDC Configurations

This setup will manage the configurations related to the OAuth client.

• Create a new Client in PingFederate for Authenion.



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v.52 Draft 22 Dec 2023, 5:12 AM ElKsupport LMC

v.51 Draft 20 Dec 2023, 10:22 PM EIKsupport LMC

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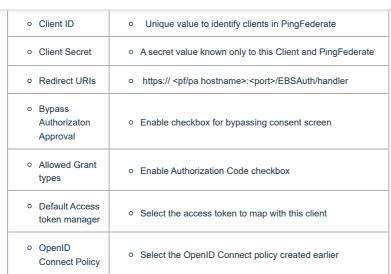


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- Review the Client configurations and click Save.
- Map an OpenID Connect Policy to this Client with the following information.

For example

In OpenID Connect Policy Management tab, create/modify the policy and add the attributes that need to be sent through id_token and userinfo endpoint.

Add the following attributes that need to be returned in the id_token and/or as claims through userinfo endpoint.

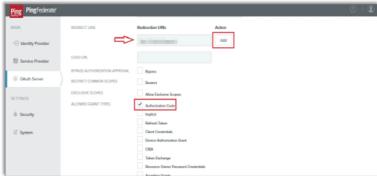
o username

o email

The above attributes can be mapped with their respective Scopes in the next page. For example, **openid scope**.

Replicate the configurations if PingFederate is configured in a cluster.

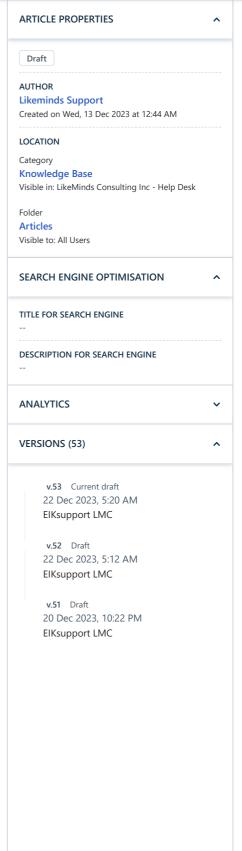




CONFIGURE SSL SERVER CERTIFICATE

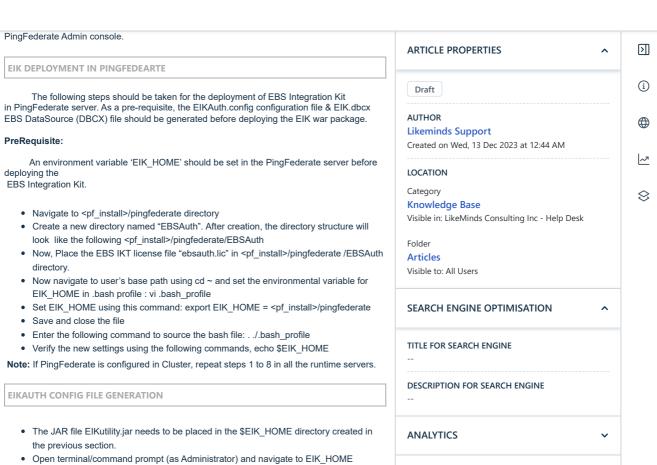
SSL certificates are created as they need to be presented for getting access to the PingFederate administrative console and for all the incoming HTTPS connections at the runtime engine nodes.

If you already own an SSL certificate for pingfederate we can skip to the Key Generation part, else we need to proceed with the following steps to configure a self-signed certificate.





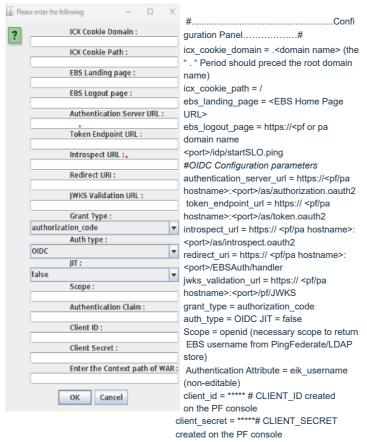




directory and execute the following command

java -cp ElKutility.jar com.likeminds.EBSAuth.ElKAdminUtility

 On running the command, we get a dialog box as follows, enter all values as per the configuration for all the fields using the template given below:



v.52 Draft
22 Dec 2023, 5:12 AM
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logoPath=https://likemindsconsulting.com/wp content/uploads/2020/07/logo1.png helpdeskMessage= If issue persists, please contact technical <ahref="https://support.likemindsconsulting.c" om">support /*userinfo_url=https://<pf/pa hostname>: <port>/idp/userinfo.openid trustStorePath= <jdk_location>/lib/security/cacerts UsePrivateTrustStore=true trustStorePassword=changeit fndusr_column_name= USER_NAME jwks_connect_timeout=5000 *\ optional #.....END.....#

Note: If required, Please Manually add userinfo_url, trustStorePath, UsePrivateTrustStore, trustStorePassword, fndusr_column_name, jwks_connect_timeout parameters in the EIKAUTH.config file as mentioned above.

After entering these values in the dialog box, a file named EIKAuth.config gets generated at the EIK_HOME directory.

Now, move the EIKAuth.config file to the following location <pf_install>/pingfederate/EBSAuth

Note: If PingFederate is configured in Cluster, copy the EIKAuth.config file to all the runtime same directory location.

EBS DATA SOURCE (DBCX) FILE CREATION

Before proceeding with the DBCX file generation, a custom user should be created in the EBS Application FND_USER table (Username - EIKUSER) with the UMX|APPS_SCHEMA_CONNECT role enabled.

Place the JAR file EBSdatasource.jar in the \$EIK_HOME directory & open the terminal/command prompt and navigate to EIK_HOME directory to execute and generate the EBS Datasource file

java -cp EBSdatasource.jar com.likeminds.ebsauth.v1.EIKDatasource Y

Note: The jar file can also be placed & executed in any server outside of PingFederate, provided there should be a connectivity to the EBS Database from the execution source

In the next step, provide the configuration details of your environment as mentioned in the screenshot:



Enter the connection factory class: oracle.jdbc.pool.OracleDataSource Enter the JDBC URL: jdbc:oracle:thin:@<EBS DB domain name>:<EBS DB Port>:<SID> (Use Scan hostnames in case of RAC database)

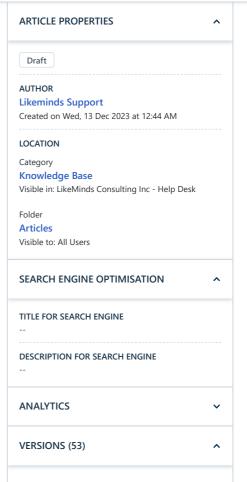
Enter APPS username:

Enter APPS password:

Enter Connection pool name: EBSAuth Enter initial connection pool size: 10 Enter min. connection pool size: 10

Enter max. initial pool size: 50
Enter timeout check interval(Default is 30 secs): 30
Enter inactive connection timeout (Default is 0 secs): 30
Enter validate connection on borrow (true/false): true

Enter the EIK username: EIKUSER



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ARTICLE PROPERTIES As part of the successful execution, a new file EIK.dbcx will be generated in the EIK_HOME Draft Now move the EIK.dbcx file to the following location: Note: If PingFederate is configured in Cluster, copy the EIK.DBCX file to all the runtime **AUTHOR** servers in the same in the directory location. **Likeminds Support** Created on Wed, 13 Dec 2023 at 12:44 AM DEPLOYING THE LOGAL2 XML FILE LOCATION Move the provided log4j2.xml file to the following Category location: <pf_install>/pingfederate/EBSAuth **Knowledge Base** Visible in: LikeMinds Consulting Inc - Help Desk Note: If PingFederate is configured in Cluster, copy the log4j2.xml file to all the runtime servers in the same directory location. Folder Articles **DEPLOYING THE CACERTS FILE** Visible to: All Users Move the java cacerts file to the following location: <pf_install>/pingfederate/EBSAuth SEARCH ENGINE OPTIMISATION Note: If PingFederate is configured in Cluster, copy the cacerts file to all the runtime servers i n the same directory TITLE FOR SEARCH ENGINE location. To add the SSL certificate in the keystore, go to the jdk_location and run the following command in the bin folder. Windows: keytool -keystore "c:\..cacerts" -importcert -alias aliasname -file "cert location" DESCRIPTION FOR SEARCH ENGINE Linux: keytool -import -alias aliasname -keystore <jdk_location>/lib/security/cacerts -file cert location **ANALYTICS DEPLOYING THE SECURITY.PROPERTIES FILE** Move the provided security.properties file to the following location: VERSIONS (53) <pf_install>/pingfederate/EBSAuth Note: If PingFederate is configured in Cluster, copy the security.properties file to all the v.53 Current draft runtime servers in the same 22 Dec 2023, 5:20 AM directory location. **ElKsupport LMC DEPLOYING EBSAuth.war FILE** v.52 Draft 22 Dec 2023, 5:12 AM • To deploy the EBSAuth.war file in the PingFederate server, navigate to the "deploy" **EIKsupport LMC** directory in the PingFederate installation directory. cd /<pf_install>/pingfederate/server/default/deploy v.51 Draft 20 Dec 2023, 10:22 PM • Now copy and place the EBSAuth.war file in the above deploy directory. **ElKsupport LMC** Note: If PingFederate is configured in Cluster, copy the EBSAuth.war file to all the runtime servers. • Restart the PingFederate runtime servers (on All runtime engine nodes if it is a clustered deployment) SYSTEM PROFILE PARAMETERS CHANGES IN EBS The following Oracle EBS System Profile changes will enable SSO by delegating the authentication to PingFederate via EIK. SYSTEM PROFILE CHANGES · Login into the EBS Application using the System Admin credentials. • Locate and change the following EBS system profiles at Site Level for enabling SSO.

SSWA w/SSO

https://<pf-server_name>:<pf-port>/EBSAuth

https://pf-server.net:9031/EBSAuth

https://pf-server.net9031

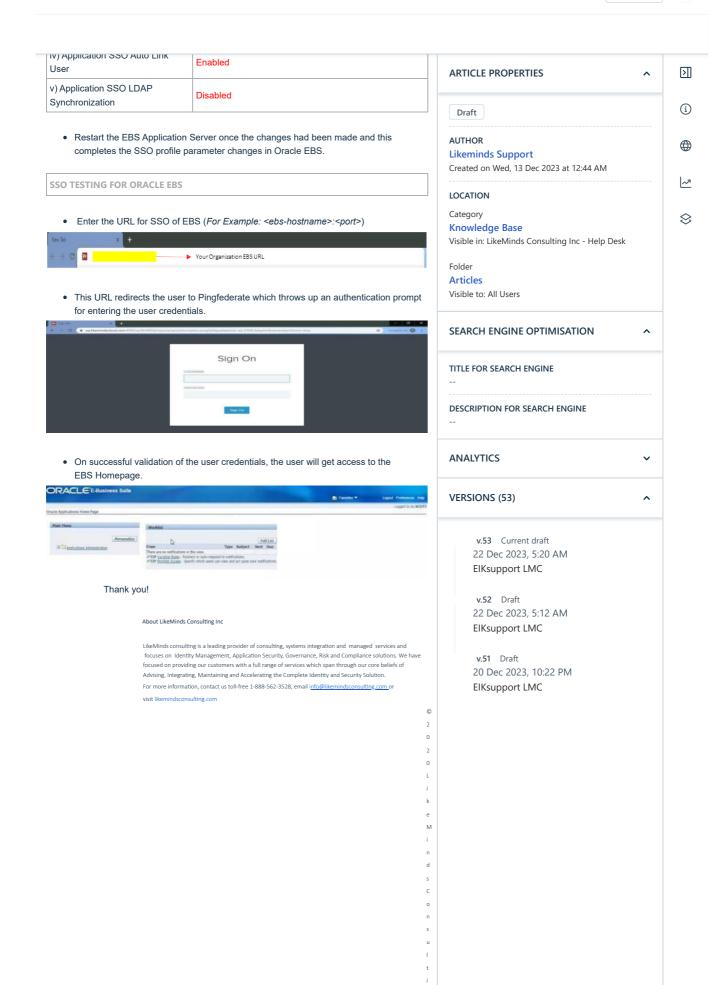
i) Application SSO Type

For Example

ii) Application Authenticate Agent

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