



# EBS Integration Kit 2.2.0.12

## Pre-requisites Guide

Version 1.1

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## Change Log

Date	Type	Description
13/04/2022	Networking	Root domains of EBS application and EIK nodes should be identical
13/04/2022	EIK Version	EIK 2.2.0.12

# Introduction

Delivering the Single Sign-On Experience for Oracle EBS application with LikeMinds EBS Integration Kit with PingFederate as the Identity Provider.

## Purpose

Purpose of this document is to provide pre-requisites to install the EBS Integration Kit in a standalone or Clustered Instance of PingFederate.

## Scope

The latest EIK 2.2.0.x versions up to 2.2.0.12 with their pre-requisites are tested & certified against the following versions of the products.

EBS Integration Kit	Oracle E-Business Suite	Oracle Database	PingFederate	PingAccess (optional)
2.2.0.12	Releases with update packs 12.0.x to 12.1.x & 12.2.0 to 12.2.10	11g release – 11.2.x  & 19c release	8.x to 11.0.2	4.x to 7.x

# Pre-requisites for EBS Integration Kit

The following are the pre-requisites for installing the EBS integration kit in PingFederate & EBS application for enabling secure SSO with additional capabilities for Oracle EBS application.

## Teams involved for EIK Implementation Oracle EBS SSO

- Oracle EBS Application & EBS Database Administrators
- Active Directory Administrator
- PingIdentity Solution Implementation partner

## Preparing Binaries with Licenses

- Prepare/Download the EBS Integration kit binaries with Eval/Prod license copy
- Download the PingFederate-10.x installation binary from the PingIdentity website and be prepared with the Eval/Prod license copy (PingFederate Eval license including the enablement of OAuth/OIDC protocols)
- Openjdk-11 (or) Oracle Java SE Development Kit

## Preparing PingFederate & Active Directory Environments

The following are the pre-requisites for PingFederate installation & connecting with Microsoft Active Directory for User authentication.

- **System Requirements for PingFederate Installation**
  - UNIX/Linux virtual machine with 2 CPU cores / 8Gig Memory / 100GB Space (for optimal performance)
  - PingFederate machine to be installed on the Internal network zone (application layer) of the Organization's Infra
  - Have the PingFederate-10.x, EBS Integration Kit & JDK binaries in the PingFederate server as part of the implementation's first phase

- **Active Directory Requirements**
  - Active Directory SSL/non-SSL port to be opened with the PingFederate server
  - Active Directory Service Account to be configured with PingFederate for authentication
  - Active Directory FQDN with its port
  - DN and Password of the AD Service Account
  - Test User in Active Directory for testing SSO to Oracle EBS

## Preparing Oracle EBS Application for Single Sign-On

The following are the pre-requisites to be done or kept ready on the Oracle EBS side for SSO with PingFederate & EBS Integration Kit

- Oracle EBS 'APPS' user credentials for registering a custom user to create authentication sessions in EBS
- Create a new user in EBS Application FND\_USER table with the following details:
  - Username - EIKUSER
  - Role - UMX|APPS\_SCHEMA\_CONNECT
- Oracle EBS Database – JDBC url, Oracle JDBC drive details, Cookie domain value of EBS application
- Oracle EBS System Profile parameter changes to enable SSO. Following are the EBS system profiles that will need to be modified for EBS SSO:
  - Application SSO type
  - Application Authenticate Agent
  - Application SSO Login types
  - Application SSO LDAP Synchronization
- Test User to be present in the Oracle EBS Application with proper roles and active account. The USER\_NAME of this test user should match with the sAMAccountName or any other authentication attribute in the Active Directory

# Server Communications, Firewall Requirements & VLAN Design

The following are the firewall requirements and designs for EBS SSO with PingFederate & EBS Integration Kit.

## Server Communications between Oracle EBS/Database & PingFederate/EIK

- The EBS application server will be communicating with EBS Integration Kit(PingFederate server) for authentication
- EBS Integration Kit will communicate with Oracle EBS Database server for account validation and EBS session creation.
- EBS Integration Kit will also communicate with EBS application server for redirecting the User to EBS application homepage post authentication & user session creation.

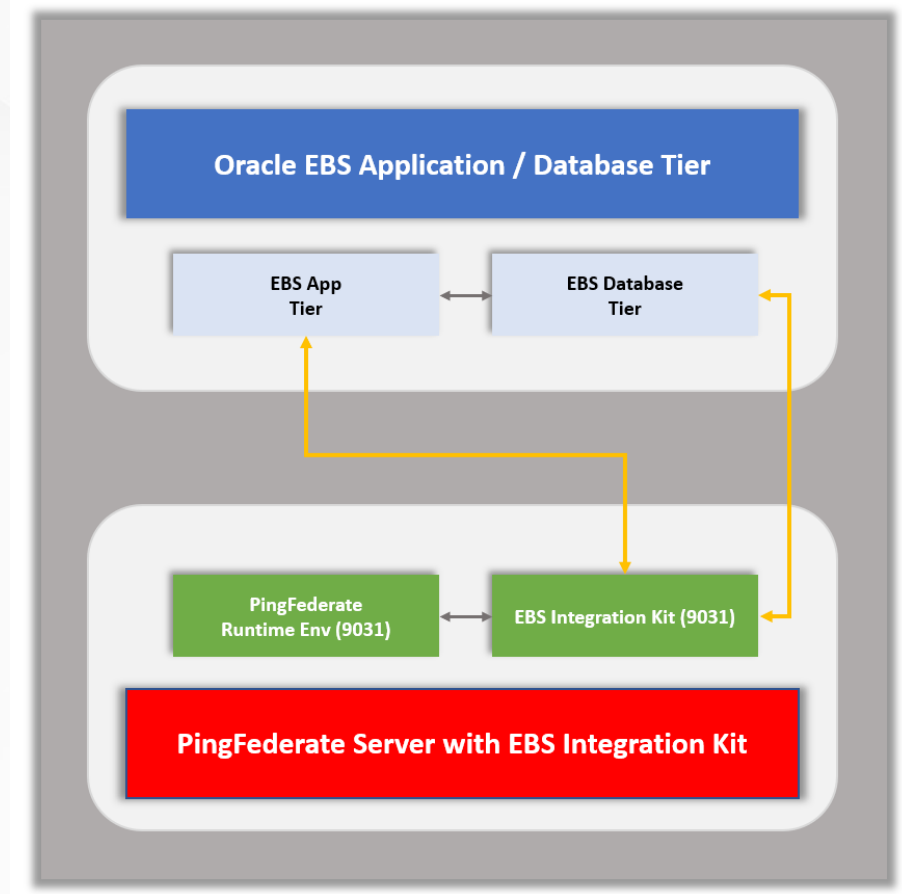
## Port Requirements

- EBS Integration Kit will be installed on the PingFederate server itself, and therefore it uses the PingFederate runtime port for communication.  
By default, PingFederate runtime port is 9031.  
Note: There is no specific firewall requirement to be enable for EBS Integration Kit.
- The firewall should be opened between EBS application server and PingFederate Runtime port/Load Balancer ports during a cluster-based configuration.
- The EBS Database should be reachable through EBS Integration Kit for session creation, and therefore, the firewall should be opened between EBS Integration Kit & EBS Database (Two-way communication mode)

## DNS Changes

- The root domains that point to the EBS Application and the PingFederate nodes hosting the EIK should be identical.  
For example: Domain name for EBS- ebs.company.com  
Domain name for EIK- pingfederate.company.com

## VLAN Design





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