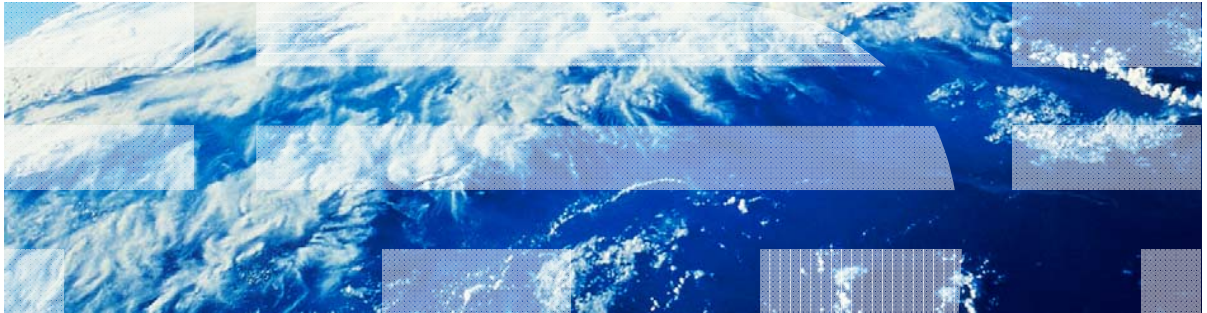




IBM Worklight V6.0.0 Getting Started

Integrating IBM Tivoli Directory Server on IBM PureApplication System



Trademarks

- IBM, the IBM logo, ibm.com, PureApplication, and Tivoli are trademarks or registered trademarks of International Business Machines Corporation, registered in many jurisdictions worldwide. Worklight is a trademark or registered trademark of Worklight, an IBM Company. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at “[Copyright and trademark information](http://www.ibm.com/legal/copytrade.shtml)” at www.ibm.com/legal/copytrade.shtml.
- Other company products or service names may be trademarks or service marks of others.
- This document may not be reproduced in whole or in part without the prior written permission of IBM.

About IBM®

- See <http://www.ibm.com/ibm/us/en/>

Agenda

- Introduction
- Configure Tivoli Directory Server in Worklight Studio
- Configure Tivoli Directory Server in the PureApplication System console

Overview

- IBM® Tivoli® Directory Server is an enterprise directory for corporate intranets and the Internet.
- In this module, you learn how to integrate Tivoli Directory Server with IBM Mobile Application Platform Pattern on IBM PureApplication™ System.
- Specifically, you learn:
 - How to configure Tivoli Directory Server in IBM Worklight® Studio, and deploy onto PureApplication System.
 - How to configure Tivoli Directory Server in the PureApplication System console.

Prerequisites

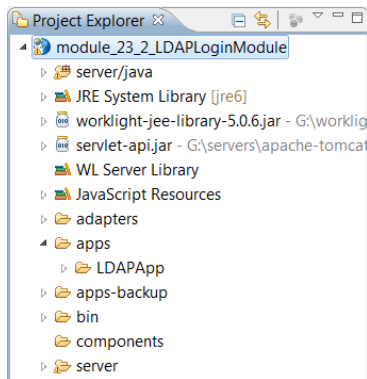
- Before you start, make sure that you have IBM Worklight® installed.
- To practice configuration in Worklight Studio, make sure that your application is tested in a local environment
 - In particular, make sure that the LDAP login module is tested.
- To practice configuration in the PureApplication System console, make sure that you have an IBM Mobile Application Platform Pattern on the PureApplication System server.
- This module uses the same sample as the module *Custom Authenticator and Login Module*, in the **Authentication and Security** category.
 - Optionally, download and import this sample to start with.

Agenda

- Introduction
- Configure Tivoli Directory Server in Worklight Studio
- Configure Tivoli Directory Server in the PureApplication System console

Prepare the IBM Worklight project

- Make sure that you have a Worklight project with an LDAP login module.
- Test and make sure that this project works in a local environment.



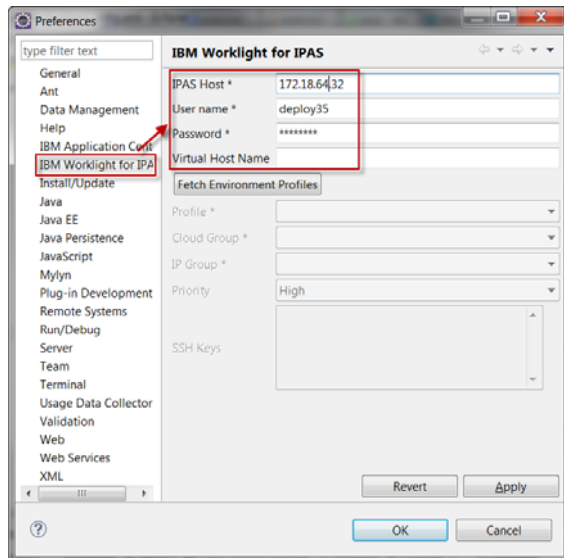
Update the *authenticationConfig.xml* file

- Open the **authenticationConfig.xml** file that is under **server/conf**.
- Copy the LDAP login module in this file, and change its name to **LDAPLoginModuleIPAS**.
- To integrate with an existing Tivoli Directory Server, make sure that the **ldapProviderUrl** parameter exists, and that its value refers to this Tivoli Directory Server.

```
<loginModule name="LDAPLoginModuleIPAS">
  <className>com.worklight.core.auth.ext.LdapLoginModule</className>
  <parameter name="ldapProviderUrl" value="ldap://9.148.227.10"/>
  <parameter name="ldapTimeoutMs" value="2000"/>
  <parameter name="ldapSecurityAuthentication" value="simple"/>
  <parameter name="validationType" value="searchPattern"/>
  <parameter name="ldapSecurityPrincipalPattern" value="{username}@wc">
  <parameter name="ldapSearchFilterPattern" value="{&amp;{objectClass">
  <parameter name="ldapSearchBase" value="dc=workLight,dc=lan"/>
</loginModule>
```

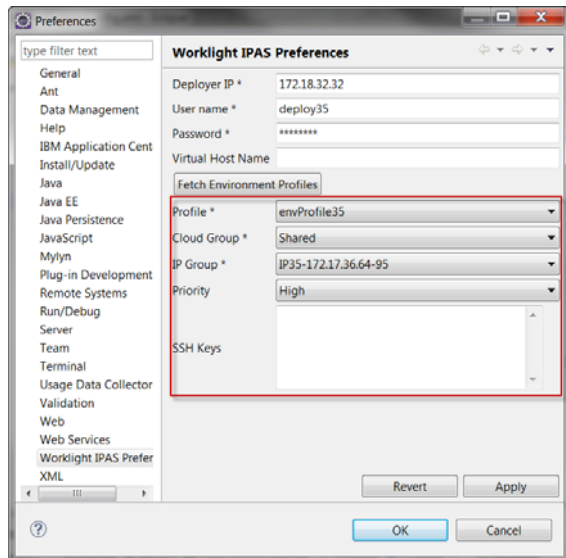

Set the PureApplication System Preferences (1 of 2)

- Open the **Preferences** window.
- In the Preferences window:
 - Select **IBM Worklight for IPAS**.
 - Enter the login credentials of the PureApplication System server.
 - Click **Fetch Environment Profiles**.



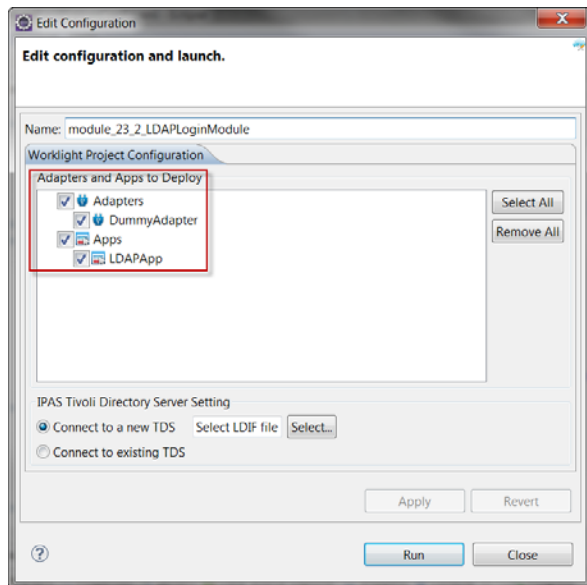
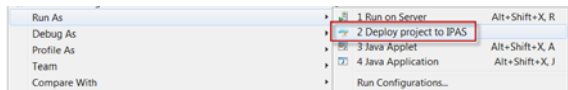
Set the PureApplication System Preferences (2 of 2)

4. Configure the runtime profile.
5. Click **OK** to terminate.



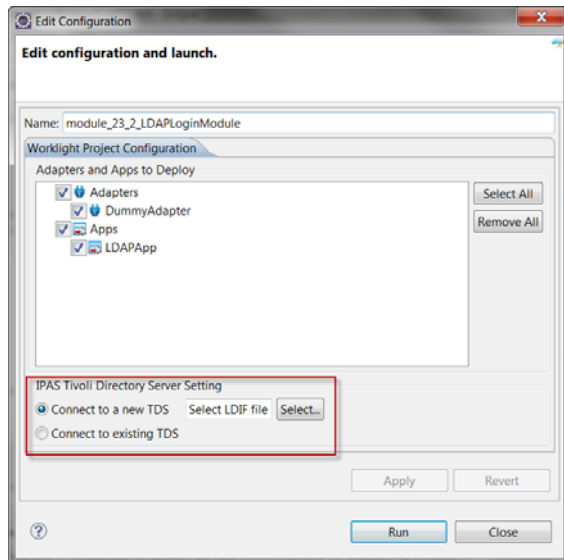
Deploy to PureApplication System (1 of 2)

1. Right-click the project, and select **Run As > Deploy project to IPAS**.
2. In the dialog, select the adapters and the applications to deploy.



Deploy to PureApplication System (2 of 2)

3. Select whether to connect to a new or an existing Tivoli Directory Server:
 - If you select **Connect to a new TDS**, you must specify an LDIF file.
 - If you select **Connect to existing TDS**, the value of the **ldapProviderUrl** parameter in the authenticationConfig.xml file gives the Tivoli Directory Server address.
4. Click **Run**.
 - The project is deployed onto PureApplication System.

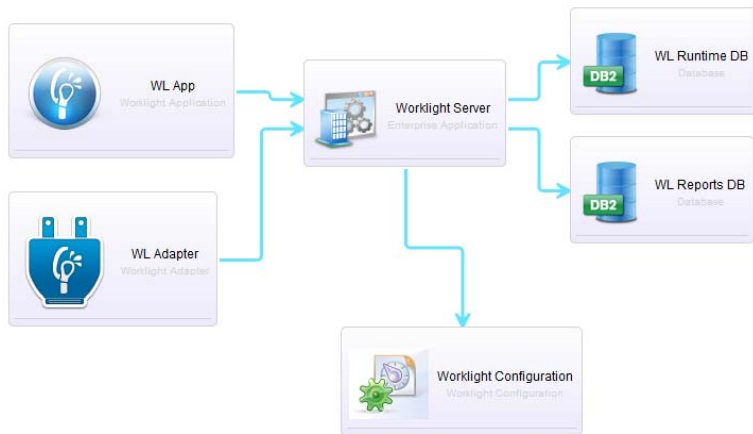


Agenda

- Introduction
- Configure Tivoli Directory Server in Worklight Studio
- Configure Tivoli Directory Server in the PureApplication System console

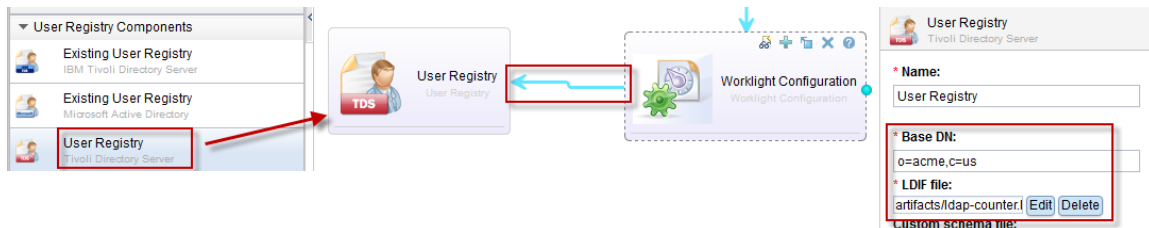
Pattern Configuration

- Open the Worklight Virtual Application Pattern (VAP) on PureApplication System.
- The Worklight VAP looks like as it is shown here:



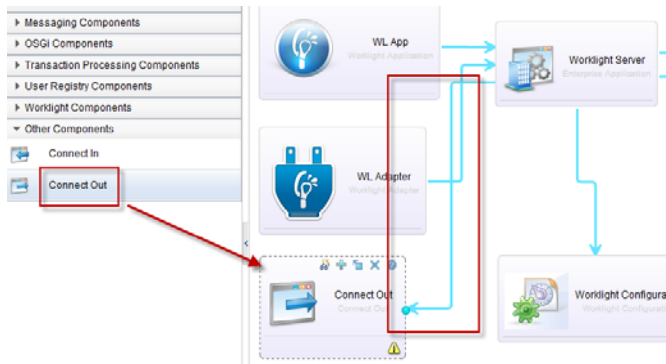
Configure a new Tivoli Directory Server

- To connect to a new Tivoli Directory Server:
 1. Drag a **User Registry** component (under the **User Registry Components** category).
 2. Connect the **Worklight Configuration** component to the **User Registry** component.
 3. Define the **Base DN** and **LDIF file** of the User Registry component.



Configure an existing Tivoli Directory Server

- To connect to an existing Tivoli Directory Server:
 1. Open a port on the PureApplication System firewall.
 2. Drag a **Connect Out** component.
 3. Connect the **Worklight Server** component to the **Connect Out** component.
 4. Defined the **Port** of the Connect Out component.
 5. Optionally, define the **Server IP** or IP netmask.



The screenshot shows the configuration dialog for the 'Connect Out' component. The dialog has a title bar with a 'Connect Out' icon and the text 'Connect Out'. Below the title bar, there are three fields: 'Name:', 'Port:', and 'Server(s) (IP or IP/netmask):'. The 'Name:' field contains the text 'Connect Out'. The 'Port:' field contains the number '636' and is highlighted with a red box. The 'Server(s) (IP or IP/netmask):' field is empty.

Notices

- Permission for the use of these publications is granted subject to these terms and conditions.
- This information was developed for products and services offered in the U.S.A.
- IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.
- IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:
 - IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, NY 10504-1785
U.S.A.
- For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:
 - Intellectual Property Licensing
Legal and Intellectual Property Law
IBM Japan Ltd.
1623-14, Shimotsuruma, Yamato-shi
Kanagawa 242-8502 Japan
- **The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law: INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.**
- This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.
- Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.
- IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.
- Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:
 - IBM Corporation
Dept F6, Bldg 1
294 Route 100
Somers NY 10589-3216
USA

- Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.
- The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.
- Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

COPYRIGHT LICENSE:

- This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs.
- Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:
 - © (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp., enter the year or years. All rights reserved.

Privacy Policy Considerations

- IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information, specific information about this offering's use of cookies is set forth below.
- Depending upon the configurations deployed, this Software Offering may use session cookies that collect session information (generated by the application server). These cookies contain no personally identifiable information and are required for session management. Additionally, persistent cookies may be randomly generated to recognize and manage anonymous users. These cookies also contain no personally identifiable information and are required.
- If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent. For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at <http://www.ibm.com/privacy>, and IBM's Online Privacy Statement at <http://www.ibm.com/privacy/details> the sections entitled "Cookies, Web Beacons and Other Technologies" and the "IBM Software Products and Software-as-a-Service Privacy Statement" at <http://www.ibm.com/software/info/product-privacy>.

Support and comments

- For the entire IBM Worklight documentation set, training material and online forums where you can post questions, see the IBM website at:
 - <http://www.ibm.com/mobile-docs>
- **Support**
 - Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at:
 - <http://www.ibm.com/software/passportadvantage>
 - If you have a Software Subscription and Support in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. For additional details, consult your IBM Software Support Handbook at:
 - <http://www.ibm.com/support/handbook>
- **Comments**
 - We appreciate your comments about this publication. Please comment on specific errors or omissions, accuracy, organization, subject matter, or completeness of this document. The comments you send should pertain to only the information in this manual or product and the way in which the information is presented.
 - For technical questions and information about products and prices, please contact your IBM branch office, your IBM business partner, or your authorized remarketer.
 - When you send comments to IBM, you grant IBM a nonexclusive right to use or distribute your comments in any way it believes appropriate without incurring any obligation to you. IBM or any other organizations will only use the personal information that you supply to contact you about the issues that you state.
 - Thank you for your support.
 - Submit your comments in the IBM Worklight forums at:
 - <https://www.ibm.com/developerworks/mobile/worklight/connect.html>
 - If you would like a response from IBM, please provide the following information:
 - Name
 - Address
 - Company or Organization
 - Phone No.
 - Email address

Thank You

