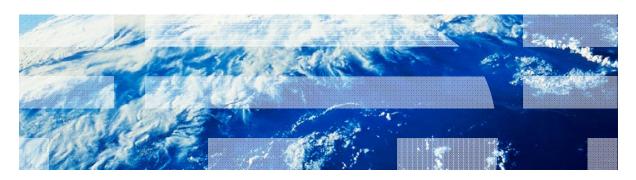


IBM Worklight V6.0.0 Getting Started

Setting up your Android development environment





Trademarks

- IBM, the IBM logo, and ibm.com 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" at www.ibm.com/legal/copytrade.shtml.
- Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.
- Java and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.
- 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/



- Set up your Android development environment
 - Install the Android SDK
 - Install the Android Development Tools plug-in for Eclipse
- Deploy to an Android device
 - Setting up a device for development
- Publishing your applications
 - Setting up an account in Google Play
 - Publish your application in Google Play



Install the Android SDK

- The Android SDK provides the tools and APIs that are required to develop applications on the Android platform by using the Java™ programming language.
 - Download the Android SDK package from http://developer.android.com/sdk/
 - Install it on your system
 - Android SDK might have issues when you run it on 64-bit Linux systems.
 - For more information, see
 http://developer.android.com/sdk/installing.html

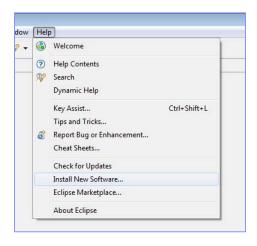


- Set up your Android development environment
 - Install the Android SDK
 - Install the Android Development Tools plug-in for Eclipse
- Deploy to an Android device
 - Setting up a device for development
- Publish your applications
 - Set up an account in Google Play
 - Publish your application in Google Play



Install the ADT Plug-in for Eclipse

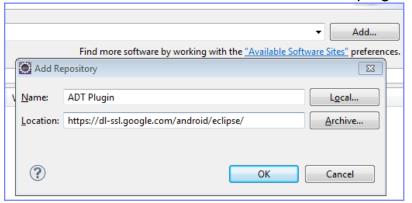
- The Android Development Tools (ADT) plug-in for Eclipse is an integrated environment in which you can build rich Android apps.
- To install ADT in Eclipse, click
 Help > Install New Software





Install the ADT Plug-in for Eclipse

Click Add and enter the name and location of the ADT plug-in.

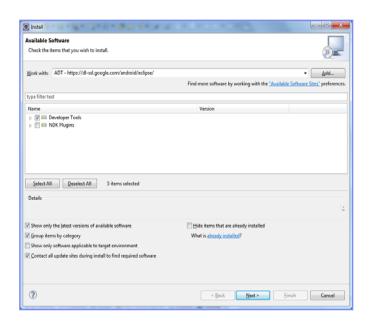


- Plug-in location is https://dl-ssl.google.com/android/eclipse/
- If you cannot install the plug-in, use "http" instead of "https".



Install the ADT Plug-in for Eclipse

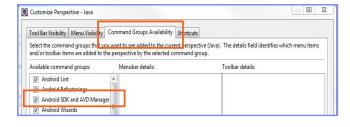
- Check Developer Tools and click Next to proceed.
- Proceed with the ADT installation sequence.

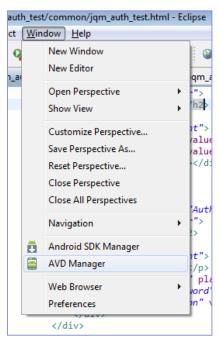




Add SDK Platform and Virtual Devices to SDK

- After the ADT plug-in installation is complete and Eclipse restarted, click Window > Android SDK Manager
- If the Android SDK Manager / AVD Manager is not visible in the Window menu, click Window > Customize Perspective > Command Groups Availability, and select the Android SDK and AVD Manager charkboxes.

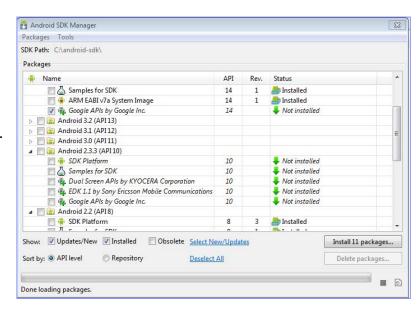






Add SDK Platform and Virtual Devices to SDK

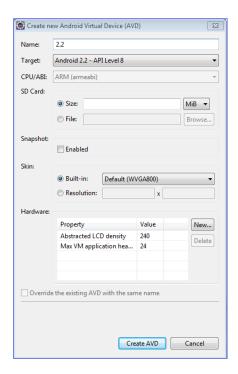
- In Available Packages, select the required SDK Platforms and their documentation, and then click Install.
- IBM Worklight supports API Levels 8 and above.





Add SDK Platform and Virtual Devices to SDK

 To create a virtual device (emulator), go to Window > AVD Manager, click New, and create an Android Virtual Device (AVD) according to your needs.





Develop

- As you later learn in Module 3.2, building a Worklight® application generates a separate Android application that is automatically displayed in Eclipse.
- You are then able to run the Android application on the Android simulator by right-clicking the Android project and selecting Run As > Android Application.





- Set up your Android development environment
 - Install the Android SDK
 - Install the Android Development Tools plug-in for Eclipse
- Deploy to an Android device
 - Setting up a device for development
- Publishing your applications
 - Setting up an account in Google Play
 - Publish your application in Google Play



Setting Up a Device For Development

- The following resource describes how to set up your development environment and Android-powered device for on-device testing and debugging.
 - For information about installation and usage on different platforms,
 see http://developer.android.com/guide/developing/device.html.



- Set up your Android development environment
 - Install the Android SDK
 - Install the Android Development Tools plug-in for Eclipse
- Deploy to an Android device
 - Setting up a device for development
- Publishing your applications
 - Setting up an account in Google Play
 - Publish your application in Google Play



Setting Up an Account in Google Play

 Google Play is a hosted service that simplifies the download and installation process of applications to Android-powered devices, and makes it easy for developers to publish their applications for Android users.

To create an account, go to https://play.google.com/.



- Set up your Android development environment
 - Install the Android SDK
 - Install the Android Development Tools plug-in for Eclipse
- Deploy to an Android device
 - Set up a device for development
- Publishing your applications
 - Set up an account in Google Play
 - Publish your application in Google Play



Publish Your Application in Google Play

For more information, see
 http://developer.android.com/guide/publishing/publishing.html.



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 use's responsibility to evaluate and verify the operation of any non-IBM product, program, or services.
- 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 writino. It
 - IBM Director of Licensing IBM Corporation North Castle Drive Armont, NY 10504-1785
 ILS 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 about you 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 definitions 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 contain.
 - IBM Corporation Dept F6, Bldg 1 294 Route 100 Somers NY 10589-3216

- 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 publicy 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 catabilities of non-IBM roducts should be addressed to the suppliers of those products.

COPYRIGHT LICENSE:

- This information contains sample application programs in source language, which illustrate programming techniques or vaious operating platforms. You may copy, modily, 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 throughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these nonzarias.
- 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 IBMs Privacy Policy at Incomment of Cookies, Web Beacons and Other Technologies' and the "IBM Software Products and Software-as-a-Service Privacy Statement's at IBM Software Products and Software-as-a-Service Privacy Statement's



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/passportadvantag
- If you have a Software Subscription and Support in effect, IBM provides you assistance for your routine, short duration installation and
 usage (how-to) guestions, and code-related guestions. 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 Developer Edition support community at:
- If you would like a response from IBM, please provide the following information:
 - Name
 - Address
 - Company or Organization
 - Phone No.
 - Email address



Thank You

