Getting Started with QuarkXPress Server 2018
## Contents

**Introduction** ................................................................. 1

**Related Documents** ......................................................... 2

**System Requirements** .......................................................... 3
- System requirements: Mac OS X .............................................. 3
- System requirements: Windows ................................................. 4

**Installing QuarkXPress Server** ........................................... 6
- Installing QuarkXPress Server: Mac OS X ................................. 6
- Installing QuarkXPress Server: Windows ..................................... 6

**Upgrading QuarkXPress Server** ............................................ 8

**Deploying QuarkXPress Server Manager** ............................ 9
- Installing QuarkXPress Server Manager .................................... 9
- Installing QuarkXPress Server Manager: Mac OS X .................. 10
- Installing QuarkXPress Server Manager: Windows ..................... 10
- Deploying QXPSM in a shared Spring context .............................. 10

**Deploying in an external Web container** ............................... 13
- Deploying QXP Server in external Tomcat ................................. 13
- Deploying QXPSM in external Tomcat ...................................... 14
- Deploying QXP Server in WebSphere ....................................... 15
- Prerequisites ......................................................................... 15
- Installing the IBM-WebSphere developer version ........................ 16
- Configure the Java 7 SDK in the IBM WebSphere ........................ 16
- Start IBM WebSphere ............................................................. 17
- QXPS WebApp deployment into IBM WebSphere UI .................... 17
- QXPS WebApp silent deployment into IBM WebSphere ................. 19
- **Deploying QXP Server in WebLogic** ..................................... 19
- QXPS WebApp deployment into WebLogic UI ............................. 21

**Introduction to QLA Server** ............................................... 22

**Uninstalling** ....................................................................... 23
- Uninstalling: Mac OS X .......................................................... 23
Uninstalling: Windows............................................................................................23

Changes in this version ..................................................................................24
New for QuarkXPress Server 2018...................................................................24

Known and resolved issues ...........................................................................26

Contacting Quark ..........................................................................................27
In the Americas ...............................................................................................27
Outside the Americas .....................................................................................27

Legal Notices ................................................................................................28
Introduction

QuarkXPress® Server is a high-fidelity content-composition and rendering server application. It is built on multiple technologies derived from QuarkXPress. Through a network connection and a browser, QuarkXPress Server can return rendered versions of QuarkXPress layouts and QuarkCopyDesk articles in a variety of formats. This document provides information about QuarkXPress Server software.
Related Documents

For more information about using the QuarkXPress Server, you may need to reference the other QuarkXPress Server documentation/resources listed below.

<table>
<thead>
<tr>
<th>Document/Item Name</th>
<th>Description</th>
<th>Where to find</th>
</tr>
</thead>
<tbody>
<tr>
<td>QuarkXPress Server User Guide</td>
<td>A guide written for the end user of the QuarkXPress Server. Contains all of the QuarkXPress Server User Guide QXPS documentation, including documentation for QXPSM, and Modifier schema. This guide also contains all of the information which previously was contained in the Web Integration Guide.</td>
<td><a href="http://www.quark.com/Support/Documentation/">http://www.quark.com/Support/Documentation/</a></td>
</tr>
<tr>
<td>XDK</td>
<td>This is the C/C++ XTensions Developer Kit. It is comprised of XTension Headers, libraries and documentation.</td>
<td>Once installed, SDK is available at: [installed directory]/Documents/SDK</td>
</tr>
<tr>
<td>QXPSM Javadocs</td>
<td>This set of Javadocs provides information about the QuarkXPress Server Manager java interface. This documentation is available with the QuarkXPress Server Manager.</td>
<td>Once installed, Javadocs are available from the home page of QuarkXPress Server Manager: http://&lt;servernameorip&gt;:8090/</td>
</tr>
</tbody>
</table>
System Requirements

This section lists baseline minimum requirements for evaluation and demonstration. Like any enterprise system, performance is highly contextual based on data complexity, number of requests, and IT infrastructure. Your specific requirements for production shall require development as part of the overall solution planning process.

For more information, please contact http://www.quark.com/support or your Quark sales contact.

The following is a list of factors to consider when scaling up for production:

Number of requests per minute

- Content richness
  - Rendered page count
  - Number of raster images rendered
  - Number of vector images rendered
  - Number of images with transparency
  - Number of tables
  - Number of tables which span across multiple pages
  - Number of landscape pages
  - Number of footnotes in table cells
  - Number of cross references
  - Number of image callouts or text callouts

- Output richness
  - PDF/print output styles
  - Digital output, e.g. number and size of interactive artifacts

System requirements: Mac OS X

Software

- Mac OS X 10.11 (El Capitan™), macOS 10.12 (Sierra™) or macOS 10.13.x (High Sierra™)
SYSTEM REQUIREMENTS

- Java J2SE™ Runtime Environment (JRE™) 8.0

Hardware
- 1 processor core and 4 sub-renderers with 4GB of RAM for each renderer*
- 10GB of additional disk space per renderer for temporary files

*Like any enterprise system, performance is highly contextual based on data complexity, number of requests, and IT infrastructure. Contact your account manager for sizing your organization’s publishing needs.

System requirements: Windows

Software
- .NET Framework 4.6.2 SP1 or later
- Java Development Kit (JDK) 1.8
- Java J2SE™ Runtime Environment (JRE™) 8.0
- Quark License Administrator (QLA) 4.6

.NET Framework is not included in the installer. Download and install from www.microsoft.com before starting QuarkXPress Server. You can install this component before or after installing QuarkXPress Server.

Hardware
- *1 processor core and 4 sub-renderers with 4GB of RAM for each renderer
- 10GB of additional disk space per renderer for temporary files
- 5GB to 10GB hard disk space for installation
- CPU: 4 Core Intel Xeon, 64-bit
- TCP/IP network (Gigabit Ethernet recommended)

Power policy settings
QuarkXPress Server achieves better throughput under “High Performance” power policy setting as compared to a “Balanced” power policy setting.
- If QuarkXPress Server is installed on a bare metal machine, the power policy should be configured to “High Performance” on that machine.
- If QuarkXPress Server is installed on a virtual machine (Hyper V or ESXi), the power policy settings of the host machine should be configured to “High Performance” so that all virtual machines running on this host inherit this property.
*Like any enterprise system, performance is highly contextual based on data complexity, number of requests, and IT infrastructure. Contact your account manager for sizing your organization’s publishing needs.
Installing QuarkXPress Server

The topics below describe how to install QuarkXPress Server.

**Installing QuarkXPress Server: Mac OS X**

To install QuarkXPress Server:

1. Disable any virus protection software. If you are concerned about a virus infecting your computer, run a virus check on the installer file and then disable your virus detection software.

2. Double-click the Installer icon and follow the instructions on the screen.

3. When prompted, enter the validation code.

4. In the Quark License Server Details screen, enter the IP address and port number of the main Quark® License Administrator (QLA) server in the License Server Host Name/IP Address and License Server Port fields. Optionally, enter the IP address and port number of a backup QLA server in the Backup License Server Host Name/IP Address and Backup License Server Port fields.

5. In the Port and Folder Settings screen, enter a value in the Port field and specify the location of the QuarkXPress Server document pool.

6. In the Subrenderer Configuration screen, enter the number of renderers you want to run. The number of available renderers is determined by the QLA license file.

7. Complete the installation.

After its initial launch, QuarkXPress Server creates a “Preferences” folder for each renderer. For example, if you have two renderers, QuarkXPress Server creates two folders named “Preferences sub1” and “Preferences sub2”. QuarkXPress Server creates preferences files at the following location:

```
[drive]/Users/[username]/Library/Preferences/Quark/QuarkXPress Server Renderer
```

**Installing QuarkXPress Server: Windows**

To install QuarkXPress Server:
1. Disable any virus protection software. If you are concerned about a virus infecting your computer, run a virus check on the installer file and then disable your virus detection software.

2. Double-click the Installer icon and follow the instructions on the screen.

3. In the Software Verification screen, enter the validation code.

4. When the License Server Details screen displays, enter the IP address and port number of the main Quark License Administrator (QLA) server in the Host Name or IP Address and License Server Port fields. Optionally, enter the IP address and port number of a backup QLA server in the Backup Host Name or IP Address and Backup License Server Port fields.

5. When the Configuration Settings screen displays:
   • Enter a port number for QuarkXPress Server.
   • To install QuarkXPress Server as an automatic service that launches when the computer starts up, check Install QuarkXPress Server as a service. You can choose Local or Domain from the Choose System drop-down menu. If you choose Domain, enter values in the Domain, User, and Password fields.

6. When the Destination screen displays:
   • The screen displays the drive and folder where QuarkXPress Server will be installed. To install QuarkXPress Server elsewhere, click Browse and navigate to the desired folder.
   • In the Number of renderers to launch field, enter the number of renderers you want to run. The number of available renderers is determined by the QLA license file.

7. Complete the installation.

8. When the installation completes, click Finish.

   After its initial launch, QuarkXPress Server creates a “Preferences” folder for each renderer. For example, if you have two renderers, QuarkXPress Server creates two folders named “Preferences sub1” and “Preferences sub2”. The getserverinfo request returns the path of the QuarkXPress Server preferences under the element PREFERENCESPATH.

   The URL for getting the QuarkXPress Server Preferences Path:
   http://localhost:8080/getserverinfo
Upgrading QuarkXPress Server

1. Uninstall your current version of QuarkXPress Server as described in “Uninstalling”.

2. Install the new version of the software as described in “Installing QuarkXPress Server“.
Deploying QuarkXPress Server Manager

There are three ways to deploy QuarkXPress Server Manager:

- As a standalone server. To deploy QuarkXPress Server Manager in this manner, install the software as described in “Installing QuarkXPress Server Manager,” then double-click the server/QXPSMServerStart.command (Mac OS X) or server/QXPSMServerStart.bat (Windows) file in the QuarkXPress Server Manager application folder.
- As an independent Web application in an existing Tomcat Web container. For more information, see “Deploying QXPSM in external Tomcat.”
- As a Web application that shares the same Spring context. For more information, see “Deploying QXPSM in a shared Spring context.”

Installing QuarkXPress Server Manager

QuarkXPress® Server Manager coordinates rendering requests in a multiple QuarkXPress Server instance environment, using load-balancing, fail-safe, and caching capabilities to determine which server in the pool can best process each document request. If the first QuarkXPress Server instance in an array is unable to process a render request, QuarkXPress Server Manager sends the request to another instance. QuarkXPress Server Manager also provides an object-oriented programming environment for working with QuarkXPress Server, and it exposes a set of Web services and Web objects that can be used in any SOAP-compatible environments such as .NET, JavaScript™, Java™, and Objective-C.

The QuarkXPress Server Manager installation includes three primary components:

- QuarkXPress Server Manager Server (the server application that provides services for load-balancing, fault-tolerance, and the SOAP server that allows third-party communication with QuarkXPress Server instances through Web services).
- The QuarkXPress Server Manager Web-based administrative client.
- The QuarkXPress Server SDK, which includes Web services API documentation; Web service stubs and samples for .NET, Java, and Objective-C; and an Extensibility Tool for generating custom stubs. This component is helpful for developing client-side solutions using the QuarkXPress Server Manager Web services and servlet interface.
Installing QuarkXPress Server Manager: Mac OS X

► You must uninstall the previous version of QuarkXPress Server Manager before installing this version. See “Uninstalling” for more information.

To install QuarkXPress Server Manager:

1. Disable any virus protection software. If you are concerned about a virus infecting your computer, run a virus check on the installer file and then disable your virus detection software.

2. Double-click the Installer icon and follow the instructions on the screen.

3. In the QuarkXPress Server Manager Server Port Settings screen, enter a port number for the QuarkXPress Server Manager server’s Tomcat server and specify the location of the QuarkXPress Server Manager cache folder. (The cache folder will store temporary copies of content generated by the QuarkXPress Server instances that are managed by this QuarkXPress Server Manager server.)

4. Complete the installation.

Installing QuarkXPress Server Manager: Windows

► You must uninstall the previous version of QuarkXPress Server Manager before installing this version. See “Uninstalling” for more information.

To install QuarkXPress Server Manager:

1. Disable any virus protection software. If you are concerned about a virus infecting your computer, run a virus check on the installer file and then disable your virus detection software.

2. Double-click the Installer icon and follow the instructions on the screen.

3. When the Destination Folder screen displays:
   - The screen displays the drive and folder where QuarkXPress Server will be installed. To install QuarkXPress Server elsewhere, click Browse and navigate to the desired folder.
   - Enter a port number for QuarkXPress Server Manager.
   - Specify a cache folder location. (The cache folder will store temporary copies of content generated by the QuarkXPress Server instances that are managed by this QuarkXPress Server Manager server.)
   - To install QuarkXPress Server Manager Server as a service, check Install QuarkXPress Server Manager Server as a Service.

4. Complete the installation.

Deploying QXPSM in a shared Spring context

In this type of deployment, QuarkXPress Server Manager can be embedded in a Spring application and can share the same Spring container instance and Spring context. This deployment model also allows the consuming of QuarkXPress Server Manager services (RequestService and AdminService) as POJOs (plain old Java objects).
This type of deployment model is possible only when the application in which QuarkXPress Server Manager is to be embedded is a Spring application and is deployed with an embedded or external Tomcat Web container.

To install QuarkXPress Server Manager in a shared Spring context:

1. Copy the `qxpsm` and `qxpsmadmin` Web application to the `webapps` folder for your existing application, so that QuarkXPress Server Manager can be recognized as a Web application in the existing Web container.
   - Set `cacheFolderContextFile` to the path of the “cache.xml” file relative to the current working directory.
   - Set `serverXmlFilePath` to the path of the “Server.xml” file relative to the current working directory.

2. Copy all QXPSM-dependent jar files from `QXPSM_Home`/Server/dependencies and `QXPSM_Home`/Server/lib to a common location, then add all of these jar files to the application classpath so that they are available to other Web applications that want to use the QuarkXPress Server Manager API locally.

3. Import the QuarkXPress Server Manager Spring context file, “ManagerContainerConfig.xml,” into the existing application Spring context.

4. Create a Java class named `CustomContextLoaderListener` that extends org.springframework.web.context.ContextLoaderListener. Override the method `loadParentContext()` as shown here:

```java
public class CustomContextLoaderListener extends org.springframework.web.context.ContextLoaderListener {

    private static final Logger logger = Logger.getLogger(GlobalContextLoaderListener.class);

    public void contextInitialized(ServletContextEvent servletContextEvent) {
        super.contextInitialized(servletContextEvent);
        String contextName = servletContextEvent.getServletContext().getServletContextName();

        protected ContextLoader createContextLoader() {
            return new CustomContextLoader();
        }

        class CustomContextLoader extends ContextLoader {

            protected ApplicationContext loadParentContext(ServletContext servletContext) {
                //Here, returns the spring context to be used as parent context
                return com.xyz.myapplication.MyApplicationContext.getContext();
            }

            protected WebApplicationContext
```
CREATE WEB APPLICATION CONTEXT

createWebApplicationContext(ServletContext servletContext,
ApplicationContext parent)
{
    return
    super.createWebApplicationContext(servletContext, parent);
}

5. Create a file named “applicationContext.xml” in `webapps/qxpsm/WEB-INF` and fill it with the following content:

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE beans PUBLIC "-//SPRING//DTD BEAN//EN" "http://www.springframework.org/dtd/spring-beans.dtd">
<beans default-lazy-init="false" default-autowire="no" default-dependency-check="none">
</beans>
```

6. Open the QuarkXPress Server Manager “web.xml” file and update `contextConfigLocation` and `listener-class` as follows:

```xml
<context-param>
<param-name>contextConfigLocation</param-name>
<param-value>/WEB-INF/applicationContext.xml</param-value>
</context-param>
<listener>
<listener-class>CustomContextLoaderListener</listener-class>
</listener>
```

7. If the existing application is already using Spring’s `PropertyPlaceholderConfigurer`, open “ManagerContainerConfig.xml” and specify the parent in the `placeholderConfig` bean as follows:

```xml
<bean id="placeholderConfig " parent="placeholderConfig"
class="org.springframework.beans.factory.config.PropertyPlaceholderConfigurer"/>
```
Deploying in an external Web container

For development, and simple test deployments, QuarkXPress Server and QuarkXPress Server Manager are provided pre-installed in an instance of Apache Tomcat. However, for production deployment alongside other Web applications, QuarkXPress Server and QuarkXPress Server Manager can be deployed in an existing Tomcat or WebSphere.

### Deploying QXP Server in external Tomcat

To install QuarkXPress Server as an independent Web application in an existing Tomcat Web container:

1. Verify that Tomcat 7.0.77 is installed.
2. Set up the following environment variables:
   - JAVA_HOME = Java installation folder. For example: E:\Program Files\Java\jdk1.8.0_121
   - CATALINA_HOME = Tomcat installation folder. For example: E:\apache-tomcat-7.0.77
3. Copy contents of the [QXPS_BUILD]/webapps folder to the [TOMCAT_HOME]/webapps folder.
4. Copy the [QXPS_BUILD]/conf folder to [TOMCAT_HOME]/bin.
5. (Mac OS X only) Open the file [Tomcat_Home]/bin/conf/ServerApp.properties and make the following changes:
   - Uncomment the Mac OS X settings section:
     ```
     #qxpserver.serverRendererPath=./webapps/ROOT/QuarkXPressServer/QuarkXPressServer.app/Contents/MacOS
     #qxpserver.serverRendererExecutableName=QuarkXPressServer
     #qxpserver.DocumentRootFolder=/QuarkXPressServer/Documents
     ```
   - Comment out the Windows settings section:
     ```
     qxpserver.serverRendererExecutableName=QuarkXPress Server Renderer.exe
     qxpserver.DocumentRootFolder=C:\\QuarkXPress Server Documents
     ```
6. In the [TOMCAT_HOME]/bin/conf/Qla.properties file, set the host name, port number, and serial number of your instance of QLA Server.
DEPLOYING IN AN EXTERNAL WEB CONTAINER

- Enter the IP address or hostname of the QLA Server in the QlaServer.machinename= field.
- Enter the port number of the QLA Server in the QlaServer.port= field. If you have a backup QLA server, enter the IP address (or hostname) and port number in the Backup.QlaServer.machinename= and Backup.QlaServer.port= fields.

7. (Windows OS only) Execute vcredist_x64.exe provided with the build before starting QXPS.

8. Copy the Documents folder to [TOMCAT_HOME].

9. Open [TOMCAT_HOME]/conf/server.xml and add the following inside the <Host name="localhost" appBase="webapps".....> tag:
   <Context path="/qxps/documents" docBase="../Documents/Documentation" />
   </Context>
Uncomment the Mac OS X settings section.

10. Make the following change in the respective config file:
   - Remove tag <import
      resource="classpath:com/quark/azure/auth/AzureAuthContext.xml"/>
      from the $(apache-tomcat_DIR)\bin\conf\QXPSLoadComponents.xml file.
   - Remove tag <import
      resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml"/>
      from the $(apache-tomcat_DIR)\bin\conf\QXPSLoadComponents.xml file.
   - Remove tag <import
      resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml"/>
      from the $(apache-tomcat_DIR)\bin\conf\QXPSLoadComponents.xml file.
   - Remove tag <value>file:./conf/AzureAuthenticate.properties</value>
      from
      the $(apache-tomcat_DIR)\bin\conf\PropertiesFilePlaceholders.xml file.
   - Remove the following tags from the $(apache-tomcat_DIR)\webapps\qxps\WEB-INF\qxps-servlet.xml file:
     <value>file:./conf/AzureAuthenticate.properties</value>,
     <property name="authManager" ref="azureAuthenticationManager"/>,
     <prop key="secure/azureauth">azureAuthReplyController</prop>,
     <property name="authResultCBHandler" ref="qxpsAzureAuthResultCBHandler"/>,
     <property name="authManager" ref="azureAuthenticationManager"/>

Deploying QXPSM in external Tomcat

To install QuarkXPress Server Manager as an independent Web application in an existing Tomcat Web container:
1. Verify that Tomcat 7.0.77 is installed.
2. Locate the Tomcat installation folder (referred to here as \[Tomcat\_Home\]).
3. Locate the QuarkXPress Server Manager external Tomcat installation folder (referred to here as \[QXPSM\_Tomcat\]).
4. Drag the contents of \[QXPSM\_Tomcat\]/conf to \[Tomcat\_Home\]/conf.
5. Drag the contents of \[QXPSM\_Tomcat\]/webapps to \[Tomcat\_Home\]/webapps.
6. Drag \[QXPSM\_Tomcat\]/qxpsm to \[Tomcat\_Home\].
7. Open the file \[Tomcat\_Home\]/conf/ManagerContainerConfig.xml and make the following changes in the ContainerAdapter bean:
   - Set cache\_FolderContextFile to the path of the “cache.xml” file relative to the current working directory.
   - Set server\_Xml\_FilePath to the path of the “Server.xml” file relative to the current working directory.
8. Open the file \[Tomcat\_Home\]/conf/Catalina.properties and specify the path of the shared class loader. For example:
   `shared\_loader=${catalina\_home}/qxpsm/lib/*.jar,${catalina\_home}/conf`
9. Open the file \[Tomcat\_Home\]/conf/Catalina/localhost/cache.xml and set the docbase attribute to the path of the appropriate cache folder.
10. Double-click the “startup.sh” shell file (Mac OS) or the “startup.bat” file (Windows). These files can be found in the TOMCAT\_HOME/bin folder.

**Deploying QXP Server in WebSphere**

To install QuarkXPress Server as an independent Web application in an IBM WebSphere Web container:

**Prerequisites**

1. Download the IBM Installation Manager 1.6.2 software and extract its contents to your local folder (for example, IBM\_INSTALLATION\_MANAGER\_DIR).
2. Download the IBM WebSphere 8.5.5.0 developer version software. This is in 3 parts in an archived (.zip) format.
3. Extract all 3 parts of IBM WebSphere 8.5.5.0 to your local folder (for example, IBM\_WAS\_DIR).
4. Download the SDK for Java 1.7 for IBM WebSphere 8.5.5.0, This is in 3 parts in an archived (.zip) format.
5. Extract all 3 parts of SDK for Java 1.7 to your local folder (for example, SDK\_FOR-Java-1.7\_DIR).
Installing the IBM-WebSphere developer version

1. Go to the $(IBM_MANAGER_DIR) folder and run “install.exe” with administrator privilege.

2. Launch the IBM Installation Manager 1.6.2 with administrator privilege.

3. Go to File->Preferences. The Preferences dialog displays. Select the Repositories option on the left side.

4. Click the Add Repository button from the right side. Browse to and select the “repository.config” file from the $(IBM_WEBSPHERE_DIR)/was.repo.8550.developers.ilan_part1 folder.

5. Click Apply and then click OK.

6. Go to the IBM Installation Manager, select the Install option.

IBM WebSphere 8.5.5.0 will be installed in your Program Files location. C:\Program Files (x86)\IBM\WebSphere.

7. During the installation, you will be asked to enter the configuration file for Part 2 and Part 3 of IBM WebSphere. Select the files from their respective folders:
   • $(IBM_WEBSPHERE_DIR)/was.repo.8550.developers.ilan_part2
   • $(IBM_WEBSPHERE_DIR)/was.repo.8550.developers.ilan_part3

8. Go to Start->WebSphere Customization Toolbox. Select the Create option on the right side.

   The Profile Management Tool dialog displays.

9. Select Application Server as the WebSphere Application Server and click Next.

10. Select Typical file creation and click Next.

11. Select Disable Administrative Security and click Next.

12. Select Create a profile.

Configure the Java 7 SDK in the IBM WebSphere

1. Open the cmd window. Navigate to the $(WS_INSTALLED_DIR)/AppServer/bin folder.

2. Type the command managesdk.bat -listAvailable.

3. Launch the IBM installation manager.

4. Go to File->Preferences. The Preferences dialog displays. Select the Repositories option on the left side.

5. Click the Add Repository button from the right side. Browse to and select the “repository.config” file from the $(SDK-FOR-Java-1.7_DIR)/was.repo.8550.java7_part1 folder.

6. Click Apply and then click OK.

7. Go to the IBM Installation Manager, select the Install option.
DEPLOYING IN AN EXTERNAL WEB CONTAINER

IBM WebSphere 8.5.5.0 will be installed in your Program Files location.
C:\Program Files (x86)\IBM\WebSphere.

8. During the installation, you will be asked to enter the configuration file for Part 2 and Part 3 of IBM WebSphere. Select the files from their respective folders:
   • $(SDK-FOR-Java-1.7_DIR)/was.repo.8550.java7_part2
   • $(SDK-FOR-Java-1.7_DIR)/was.repo.8550.java7_part3

9. The Java7 SDK for IBM WebSphere will be installed successfully. Check it at the $(WS_INSTALLED_DIR)/AppServer/java_1.7_64 folder

10. Open the cmd window. Navigate to the $(WS_INSTALLED_DIR)/AppServer/bin folder.

11. Type the command managesdk.bat -listAvailable.

12. Type the command managesdk.bat -enableProfile -profileName AppSrv01-sdkname 1.7_64. This binds IBM WebSphere into Java7 runtime.

Start IBM WebSphere

1. Enter First Step.bat from the start menu or from $(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01/firststeps/firststeps.bat.

   The WebSphere Application server dialog displays.

2. Start the Server.

QXPS WebApp deployment into IBM WebSphere UI

1. Copy the (QXPS_BUILD)/conf folder to WebSphere's current directory (for example, $(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01. Open “ServerApp.properties” and update the following:
   • qxpswebserver.embeddedwebcontainer= false
   • qxps.webapp.context.name= /qxps

2. Open the “QXPSLoadComponents.properties” file located at $(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01/conf and remove the following entries:
   <import
   resource="classpath:com/quark/azure/auth/AzureAuthContext.xml"/>
   <import
   resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml"/>
   <import
   resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml"/>

3. Open the “PropertiesFilePlaceholders.properties” files located at $(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01/conf and remove the following entries:
   • <value>file:./conf/AzureAuthenticate.properties</value>
4. In the `[TOMCAT_HOME]/bin/conf/Qla.properties` file, set the host name, port number, and serial number of your instance of QLA Server.
   - Set `QlaServer.machinename` to the IP address or hostname of the QLA server.
   - Set `QlaServer.port` to the port number of the QLA server.
   - If you have a backup QLA server, set `Backup.QlaServer.machinename` and `Backup.QlaServer.port` to its IP address or hostname and port number.

5. Extract the “EAR (qxps-2017.ear)” file. Open the “qxps-servlet.xml” file located at `$(QXPS-EAR_DIR)/qxps-2017/source/qxps/WEB-INF/` and remove the following entries:
   ```xml
   <value>file:./conf/AzureAuthenticate.properties</value>
   <property name="authManager" ref="azureAuthenticationManager"/>
   <prop key="/secure/azureauth">azureAuthReplyController</prop>
   <property name="authResultCBHandler" ref="qxpsAzureAuthResultCBHandler"/>
   <property name="authManager" ref="azureAuthenticationManager"/>
   ``

6. Create the WAR bundle by using the “CreateQXPS_EAR.bat” batch file located at the extracted folder: `$(QXPS-EAR_DIR)`


8. Select the Application tab from the right and select New Application.

9. Select New Enterprise Application. When asked for the path to the new application, choose the file and click Next.

10. When asked “How do you want to install the application?”, select Fast Path and click Next.

11. Change the application name if required and click Next.

12. Select both the modules and click Next.

13. Select both the web modules and click Next.

14. Select the qxpsadmin module and click Next and then Finish.

15. Save the changes to the master configuration.

16. Select the Server tab from the right and select WebSphere Application Servers> server1 > Web server plug-in properties.

17. Set the maximum number of connections that can be handled by the application server to 150.

18. Save the changes.

19. Select the Application tab from the right and select Application Types -> WebSphere Enterprise applications. Select qxps and Start.
QXPS WebApp silent deployment into IBM WebSphere

1. Copy the `{QXPS_BUILD}/conf` folder to WebSphere’s current directory (for example, `$(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01`). Open `ServerApp properties` and update the following:
   - `qxpswebserver.embeddedwebcontainer= false`
   - `qxps.webapp.context.name= /qxps`

2. In the `[TOMCAT_HOME]/bin/conf/Qla.properties` file, set the host name, port number, and serial number of your instance of QLA Server.
   - Set `QlaServer.machinename` to the IP address or hostname of the QLA server.
   - Set `QlaServer.port` to the port number of the QLA server.
   - If you have a backup QLA server, set `Backup.QlaServer.machinename` and `Backup.QlaServer.port` to its IP address or hostname and port number.

3. Save the following script as “install.jython”:
   ```python
   earLoc='C:\QXPSTestAutomation\WebSphere\$(EAR_NAME)
   appName='$(EAR_NAME)'
   print AdminApp.install(earLoc, ['-MapWebModToVH', ['.*', '.*', 'default_host']])
   AdminConfig.save()
   ```

4. Save the following script as “uninstall.jython”:
   ```python
   appName=' $(EAR_NAME)'
   print AdminApp.uninstall(appName)
   AdminConfig.save()
   ```

5. Open the cmd window with admin privilege, go to the `$(WS_INSTALLED_DIR)/AppServer/profiles/AppSrv01/bin` folder and run the following commands:
   ```bash
   wsadmin.bat -f '$(PATH_TO_INSTALL_JYTHON_SCRIPT)' -lang jython
   ```

6. Restart IBM WebSphere to launch the QuarkXPress Server.

Deploying QXP Server in WebLogic

To install QuarkXPress Server as an independent Web application in an Oracle WebLogic Web container:

1. Download the WebLogic Server 12c from [http://www.oracle.com](http://www.oracle.com).

2. Extract the downloaded archive and go through the steps given in the “README.txt” file in the `$wls/wlsxxxx` folder.
   Your domain username and password are those that you entered while setting up WebLogic.

3. Start the WebLogic Server using the `startWebLogic.cmd` cmd in the `$wls/wlsxxxx/user_projects/domains/base_domain/` folder.

4. Copy the `{QXPS_BUILD}/conf` folder to WebLogic’s current directory (for example, `[wls]/wlsxxxx/user_projects/domains/base_domain`).
5. Open the “ServerApp.properties” file in the
[$wls]/wlsxxxx/user_projects/domains/base_domain/conf folder and
update the following entries:
   • qxpswebserver.embeddedwebcontainer= false
   • qxps.webapp.context.name= /qxps

6. Open the “QXPSLoadComponents.properties” file located at
[$wls]/wlsxxxx/user_projects/domains/base_domain/conf and
remove the following entries:
   <import resource="classpath:com/quark/azure/auth/AzureAuthContext.xml" />
   <import resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml" />
   <import resource="classpath:com/quark/qxps/azure/config/AzureConfiguration.xml" />

7. Open the “PropertiesFilePlaceholders.properties” file located at
[$wls]/wlsxxxx/user_projects/domains/base_domain/conf and
remove the following entries:
   • <value>file:./conf/AzureAuthenticate.properties</value>

8. In the [$wls]/wlsxxxx/ user_projects/domains/base_domain/conf/Qla.properties file, set the host name, port number, and serial number of your instance of QLA Server:
   • Set QlaServer.machinename to the IP address or hostname of the QLA server.
   • Set QlaServer.port to the port number of the QLA server.
   • If you have a backup QLA server, set Backup.QlaServer.machinename and Backup.QlaServer.port to its IP address or hostname and port number.

9. If you are running WebLogic on Windows, execute the file “vcredist_x86.exe”

10. Extract the “EAR (qxps-2017.ear)” file. Open the “qxps-servlet.xml” file
    located at $(QXPS-EAR_DIR)\qxps-2017\source\qxps\WEB-INF\ and
    remove the following entries:
        <value>file:./conf/AzureAuthenticate.properties</value>
        <property name="authManager" ref="azureAuthenticationManager"/>
        <prop key="/secure/azureauth">azureAuthReplyController</prop>
        <property name="authResultCBHandler" ref="qxpsAzureAuthResultCBHandler"/>
        <property name="authManager" ref="azureAuthenticationManager"/>

11. Create the WAR bundle by using the “CreateQXPS_EAR.bat” batch file located
    in the extracted folder: $(QXPS-EAR_DIR)
QXPS WebApp deployment into WebLogic UI

1. Navigate to the administrative console page for your server
   (http://localhost:7001/console) and log in using the domain credentials that you
   entered during the WebLogic setup in “Deploying QXP Server in WebLogic”.

2. Go to domain structure > Deployments > Install, then select the QuarkXPress
   Server EAR file ([QXPS_BUILD]\QXPS-EAR\qxps-2017.ear) and select Next.

3. Select the Install this deployment as an application option button and click
   Next.

4. Click Next, leaving all default settings.

5. Select the Yes, take me to the deployment’s configuration screen button and
   click Finish.

6. Click Save to finish the installation and save the configuration settings.

7. Go to the Deployments option listed on the left panel under Domain
   Structure.

   Observe the status of the qxps-2018 webapp. It will be shown in an active state
   after a successful installation.
Introduction to QLA Server

QLA Server is the software component that issues licenses to the Quark application clients. After you install Quark License Administrator Server, download your license file from the Quark Web site. The server can be any computer on the network that meets the minimum system requirements. The server monitors license usage over the network and grants licenses to the client computers.

QLA clients are the computers on which Quark applications are installed — for example, QuarkXPress, Quark Publishing System® (QPS®), or QuarkXPress Server software. When a user attempts to launch a Quark application on a client computer, the client sends a request to the QLA Server. The server, which is always listening for requests, determines whether there is an available license. If there is, then the server grants a license and the client computer can launch the Quark application. If no licenses are available, the server does not grant a license. When this occurs, the Quark application does not launch.

In the QLA Control Panel application, the Configuration Options tab lets you specify how QLA monitors licenses. This tab includes the Server Configuration area and the Extended Check-out Configuration area.

In the Server Configuration area:

- The Heartbeat Interval (Seconds) value lets you specify the number of seconds between attempts by the client to reach the server. If a Quark application fails to successfully connect to the server within this time, then that application automatically attempts to reconnect.

- The Heartbeat Retries field lets you specify the number of times a client can attempt to make a connection before reporting a connection failure.

For example: If the Heartbeat Interval (Seconds) value is 3600 (one hour) and the Heartbeat Retries value is 10, the system waits 10 hours before failing. If the client is able to successfully connect to the server on or before the tenth attempt, outstanding licenses are restored. If not, the application checks in all allocated licenses.
Uninstalling

If the uninstaller detects a running instance of the application, an alert displays. Close the application before you begin to uninstall.

**Uninstalling: Mac OS X**

To uninstall QuarkXPress Server, open the **Applications** folder on your hard drive (or the folder in which QuarkXPress Server was installed) and drag the **QuarkXPress Server** folder to the trash.

To uninstall QuarkXPress Server Manager, open the **Applications** folder on your hard drive (or the folder in which QuarkXPress Server Manager was installed) and drag the **QuarkXPress Server Manager** folder to the trash.

**Uninstalling: Windows**

To uninstall QuarkXPress Server or QuarkXPress Server Manager:

1. Choose **Start > All Programs > QuarkXPress Server 2017 > Uninstall** or **Start > All Programs > QuarkXPress Server Manager > Uninstall**.

2. Click **Yes**.

   The uninstaller gathers the information necessary for uninstalling and then an alert displays to notify you that the contents of the application folder will be deleted.

3. Click **Yes** to continue or **No** to cancel.
Changes in this version

This section will cover the various changes introduced in different versions of QuarkXPress Server.

For details about all of these changes, see *A Guide to QuarkXPress Server*.

**New for QuarkXPress Server 2018**

Changes in version 14.0.2 included the following:

- QuarkXPress Server is compatible with QuarkXPress 2018 (14.x).
- Added accessibility features in PDF output:
  - PDFs published from Platform now include tagging and alternate text for images to enhance accessibility.
  - Added a new URL parameter, `createtaggedpdf` (true|false), to configure the tagged PDF setting.
- Added support for box borders:
  - Added a new `BORDER` element with over 40 attributes to support the ability to apply different borders to each side of a box.
  - The `FRAME` element has been retained for backward compatibility and still works in modifier-based flows.
  - The deconstruct XML now represents borders and related attributes under the new `BORDER` element.
- Added support for the ability to span footnotes/endnotes over columns:
  - Specify using the `Footnote Across Columns` attribute in the footnote/endnote separator style.
  - This feature is also supported in the automation flow.
- Modifier Schema Changes:
  - Added support for heading styles in paragraph stylesheets.
  - Added support for heterogeneous borders and frames.
  - Changed `EBOOKMETADATA` to `LAYOUTMETADATA`. This lets you apply metadata to the layout for PDS and eBook export.
• Added \texttt{PICTURE@ALTTEXT}. This lets you set alternate text for each image to enhance accessibility.
Known and resolved issues

For lists of known issues and resolved issues in this version of the software, visit the Quark Web site at http://www.quark.com. Product documentation, including lists of known and resolved issues, is available under Support > Product Documentation.
Contacting Quark

The support portal allows you to log support tickets, track tickets, receive status notifications, chat with a technical support representative, search the Knowledge Base, and access product documentation.

With direct access to documentation across all Quark software - from QuarkXPress and App Studio to Quark Enterprise Solutions - you can find answers to your questions at your convenience. Our support team is also available to help, either through our support portal or via phone for our maintenance contract customers.

If you are a Quark customer and have a current maintenance or support contract your account has already been created for you using your registered email address. If you do not have a support contract you can purchase a single support incident to get your problem resolved. If you have purchased or registered a supported product, you are eligible for free support for the first 90 days.

**In the Americas**

For more details, please check out our support website [http://www.quark.com/support](http://www.quark.com/support).

**Outside the Americas**

For countries outside the Americas, please visit the following sites to access your support account:

Support Website

- France - [http://www.quark.com/fr/support](http://www.quark.com/fr/support)
- Germany - [http://www.quark.com/de/support](http://www.quark.com/de/support)
Legal Notices

©2018 Quark Software Inc. and its licensors. All rights reserved.

Quark, the Quark logo, and QuarkXPress are trademarks or registered trademarks of Quark Software Inc. and its affiliates in the U.S. and/or other countries. All other marks are the property of their respective owners.