A-VIEW Client Installation Guide

(For v 4.0)

Amrita E-Learning Research Lab

Amrita e-learning research lab

Contents

[1. Introduction 4](#_Toc439346962)

[2. Prerequisites for Development Environment 4](#_Toc439346963)

[3. Checking out the Client code 4](#_Toc439346964)

[4. Configuring Java 4](#_Toc439346965)

[5. Importing A-VIEW client project 7](#_Toc439346966)

[6. To configure and setup SDK 11](#_Toc439346967)

[7. To Export A-VIEW as AIR/EXE 13](#_Toc439346968)

[8. Prerequisites for installing the A-VIEW Client 18](#_Toc439346969)

[9. Adding Server information to the Client App 19](#_Toc439346970)

[10. First-time A-VIEW Login 19](#_Toc439346971)

[11. Command-Line Compilation using ant 19](#_Toc439346972)

# Introduction

This document explains the steps needed to compile and deploy the A-VIEW client application.

# Prerequisites for Development Environment

Install the following pre-requisites in your development environment:

* [Git](http://git-scm.com/)
* [Adobe Flash Builder 4.5](http://www.adobe.com/products/flash-builder-family.html)
* AIR 4.6-3.4 SDK – This package is available from <http://aview.in/aview-third-party-tools/Flex4.6-AIR3.4.rar>. (make sure there are no spaces in the directory name)
* JRE – The recommended version is 1.7. It is also available from <http://aview.in/aview-third-party-tools/JRE.zip>
* Ant – Recommended version is 1.9.4. This is available from the Git in the aview-thirdparty-tools repository. Add the path to Ant bin directory to system path variable.
* Inno Setup – Recommended version is 5.4.2. This is available from the Git in the aview-thirdparty-tools repository.

# Checking out the Client code

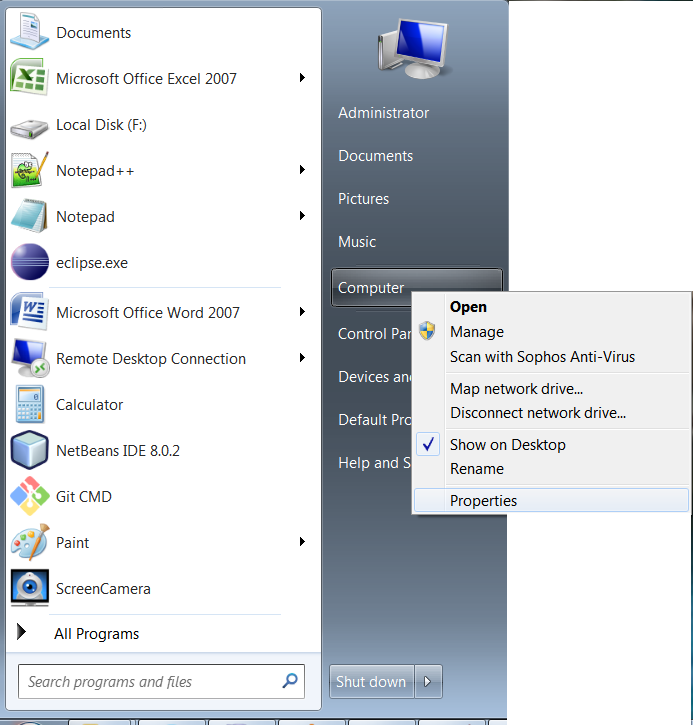
Use git clone <https://github.com/aview/aview-platform.git> to checkout the A-VIEW Client Platform code to your local computer.

# Configuring Java

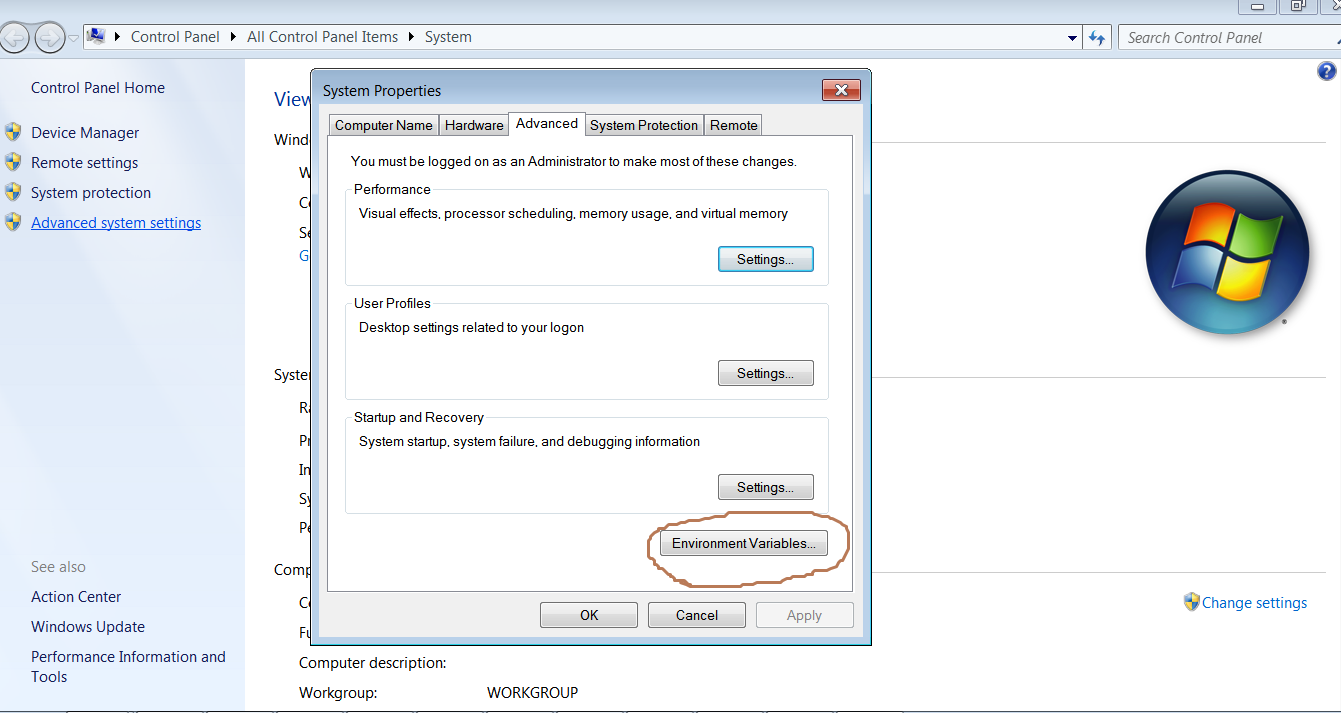
Ensure that JAVA\_HOME and JRE\_HOME environment variables are set properly. These are normally set as part of the JRE installation. To set it manually, you can follow the examples shown below:

To set JRE\_HOME:

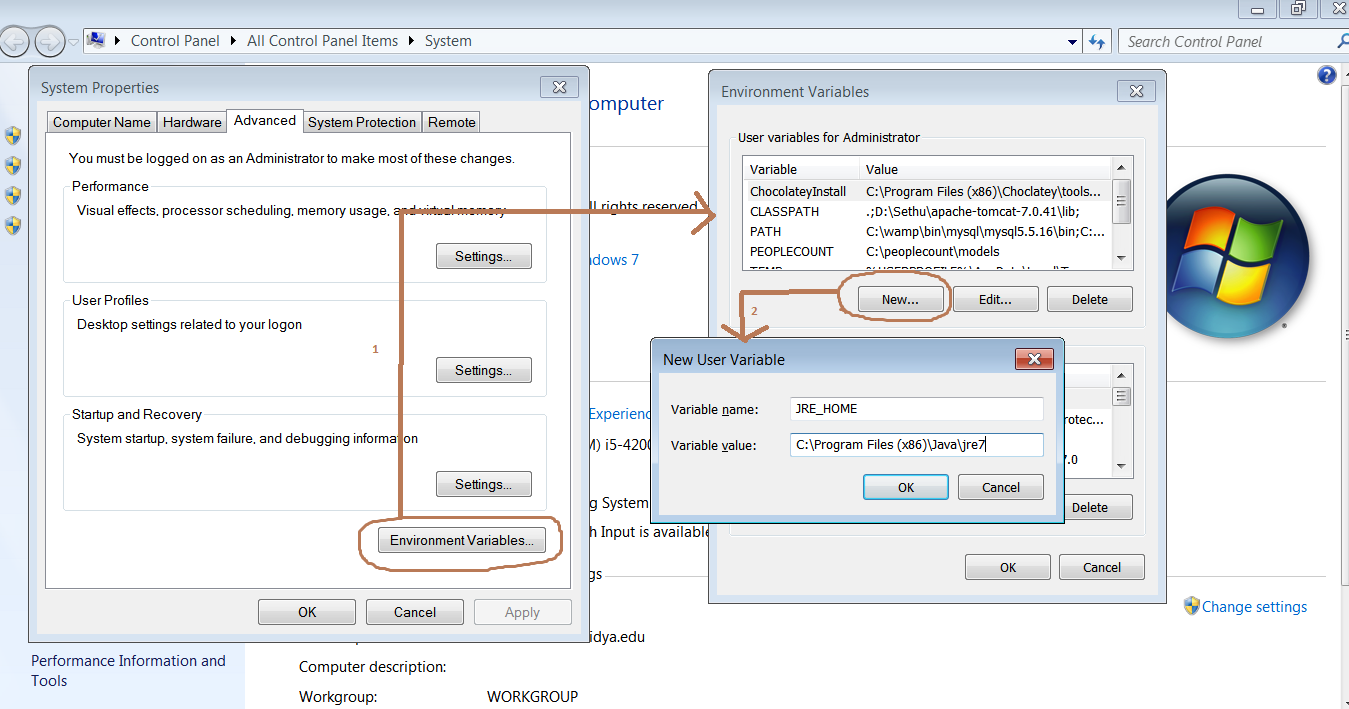
a. Right Click on Computer menu and click Properties.



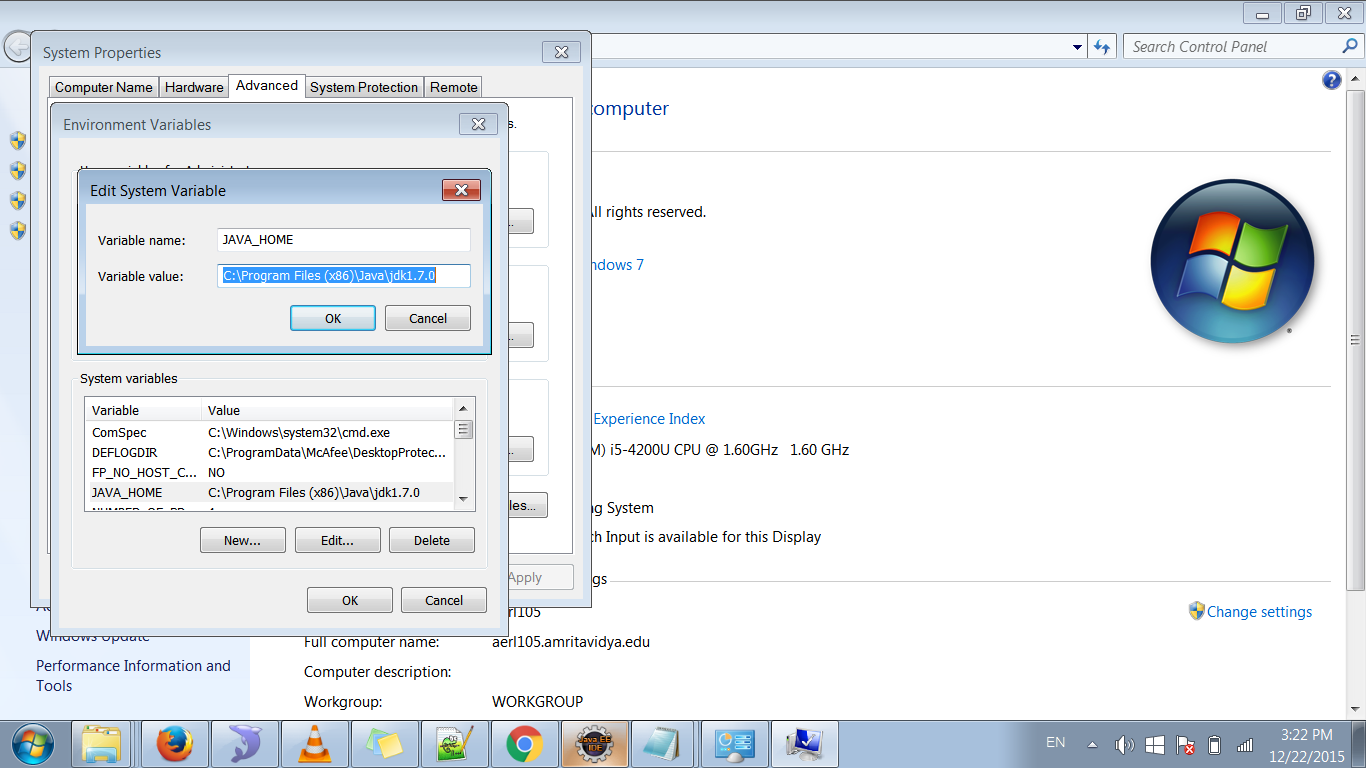
b. Click on Advanced System Settings open a new dialog box.



c. Click on "Environmental Variables" button, opens a new Dialog box where one can see the list of existing Environmental Variables. Click on "New" and create one for JRE\_HOME by pasting the correct path in the "Variable value:" Click on Ok and close all the other dialog boxes.



To set JAVA\_HOME, follow the same instructions as above and set JAVA\_HOME as shown below:



# Importing A-VIEW client project

In Flash Builder, select ***File***and choose ***Import Flash Builder Project***. (Refer Fig: 1)

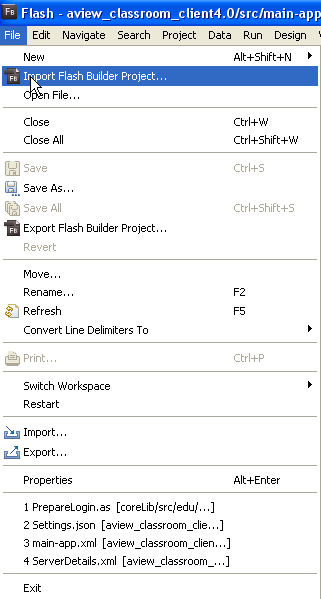


Fig: 1 – Select Import from menu

In the ***Import Flex Project wizard***, browse the project to import (Refer Fig: 2 and 3) and click ***ok*** in the ***Browse for folder wizard***.

**Choose the path to point to the aview-platform directory that you checked out locally.**

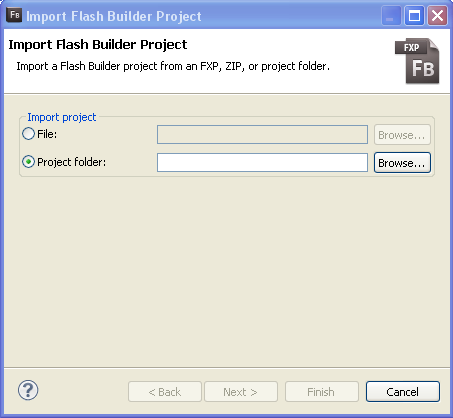


Fig: 2 –Import wizard to browse the project



Fig: 3 – Browse project wizard

After selecting the project, click ***Finish*** button in the ***Import Flash Builder Project wizard***. (Refer Fig: 4)

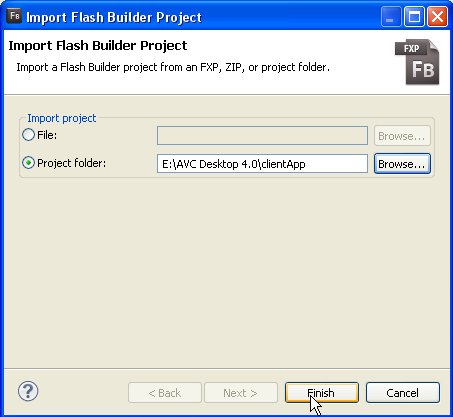


Fig: 4 – Project import wizard

Likewise import ***AviewCore*** library project also to the Flash builder. Once both projects are imported, it will look like Fig 5.

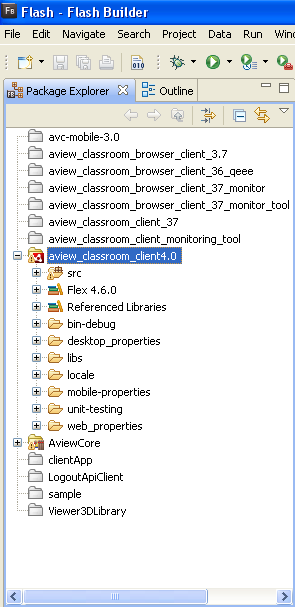


Fig: 5 – Project view

# To configure and setup SDK

After importing project you may get error. (Refer Fig: 6)

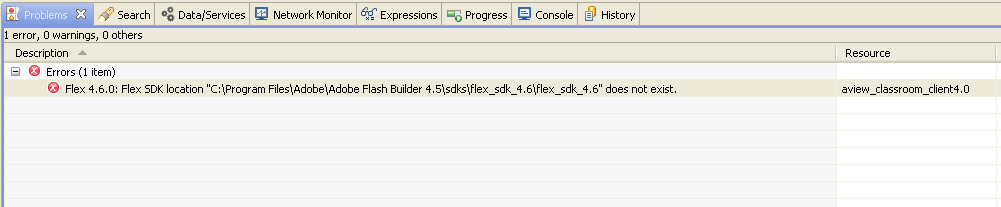


Fig: 6 – Error message because of lack of proper SDK

To solve that issue, you have to set SDK path. Copy ***AIR 4.6-3.4*** SDK to “C:\Program Files\Adobe\Adobe Flash Builder 4.5\sdks” location.

In Flash Builder, do right click on the project and select Properties, and click ***Configure Flex SDKs*** under Flex Compiler options (Refer Fig: 7).

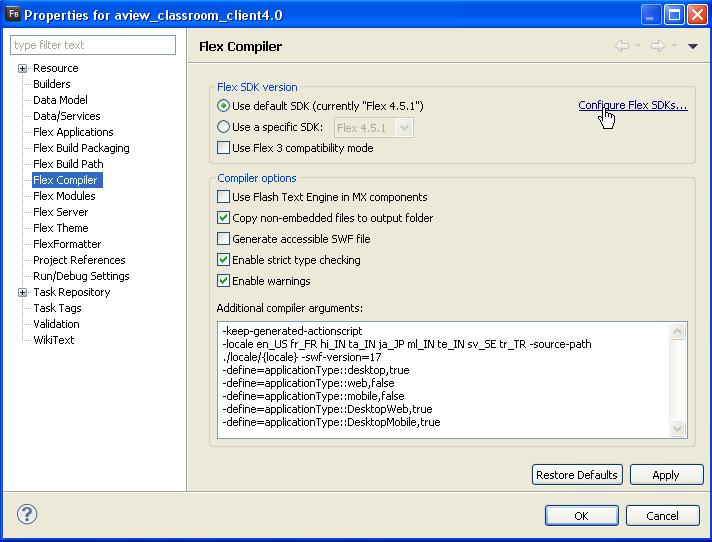


Fig: 7 – Properties of Flex Compiler

From ***Preferences (Filtered)*** wizard, click on Add Button to add flex SDK. Use ***Browse*** button to browse SDK and give a name for the new Flex SDK, say “AIR 4.6-3.4”. Then click on ***Ok***. (Refer Fig: 8)

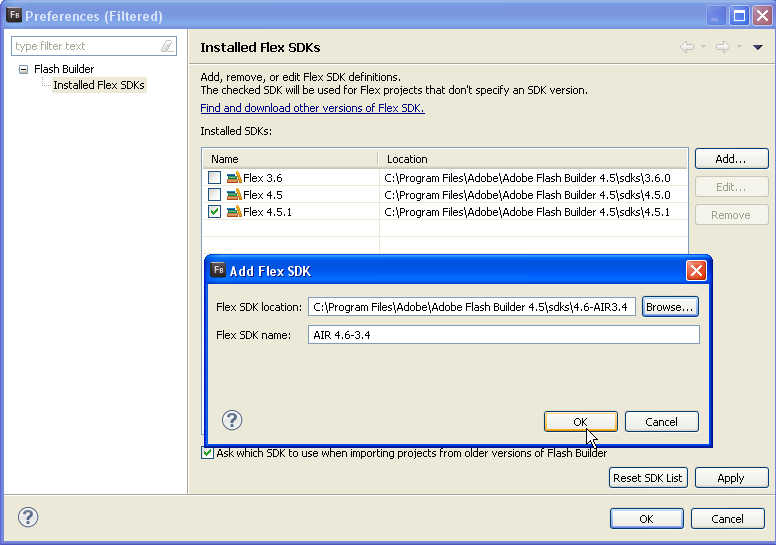


Fig: 8 – Configure SDK

Now check ***AIR 4.6-3.4 SDK*** from drop down list to make it as the default SDK and click ‘***Apply*** ‘and then ‘***Ok***’.

For each project, we can choose SDK, so here, for our project, we need the new SDK (Flex 4.6 with AIR 3.4)(Refer Fig: 9).

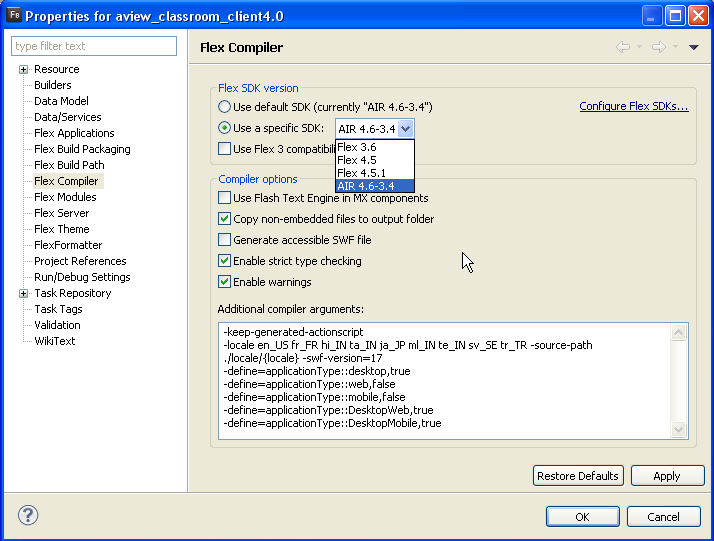
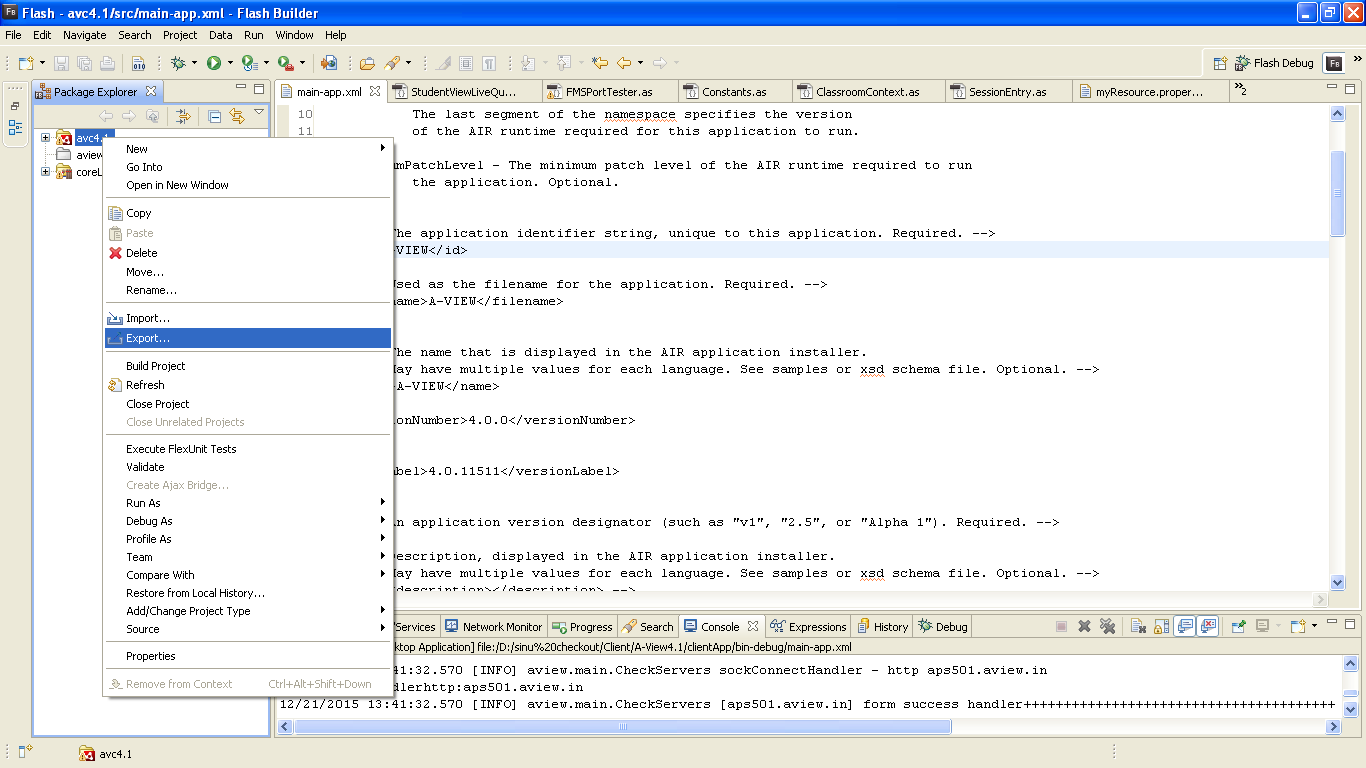


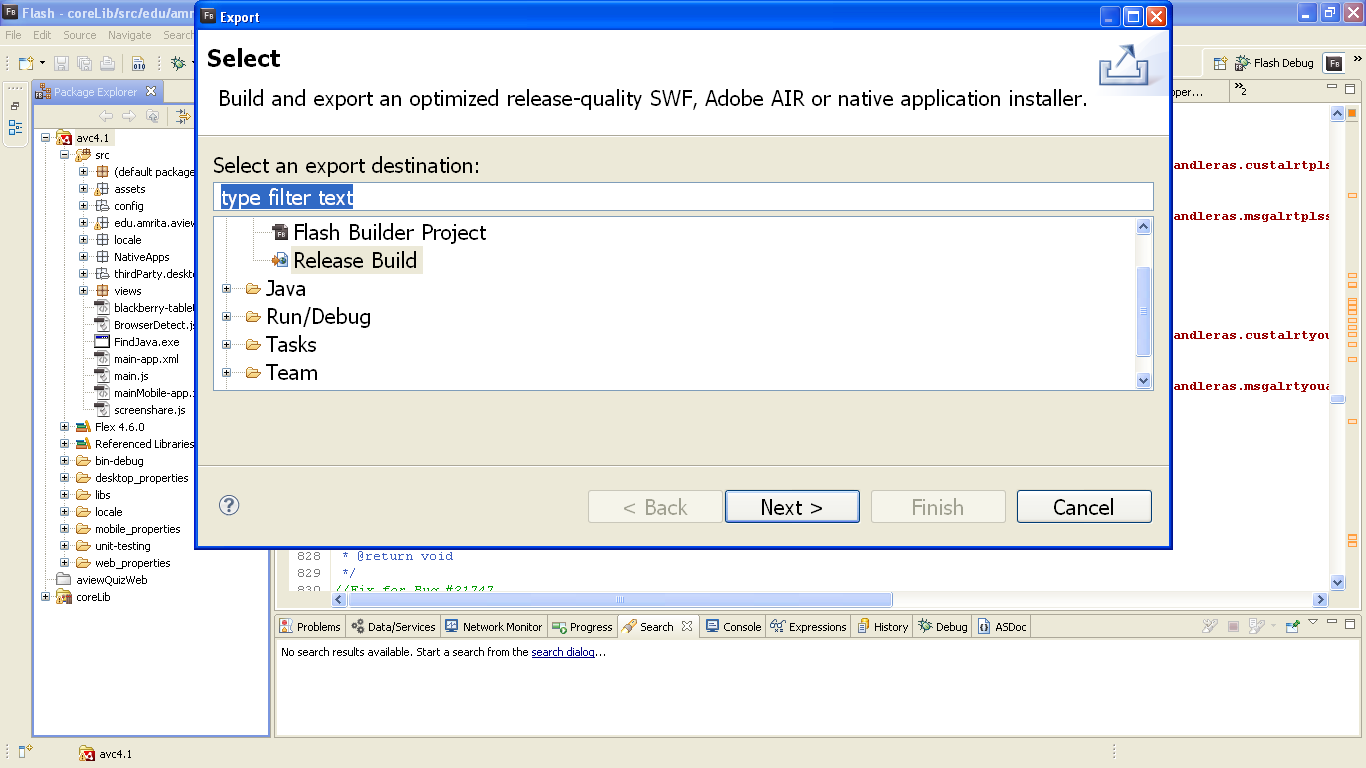
Fig: 9 – Set SDK for A-VEIW

# To Export A-VIEW as AIR/EXE

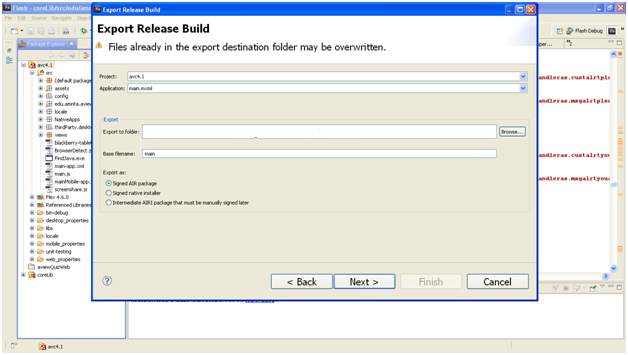
Right click the project and select export



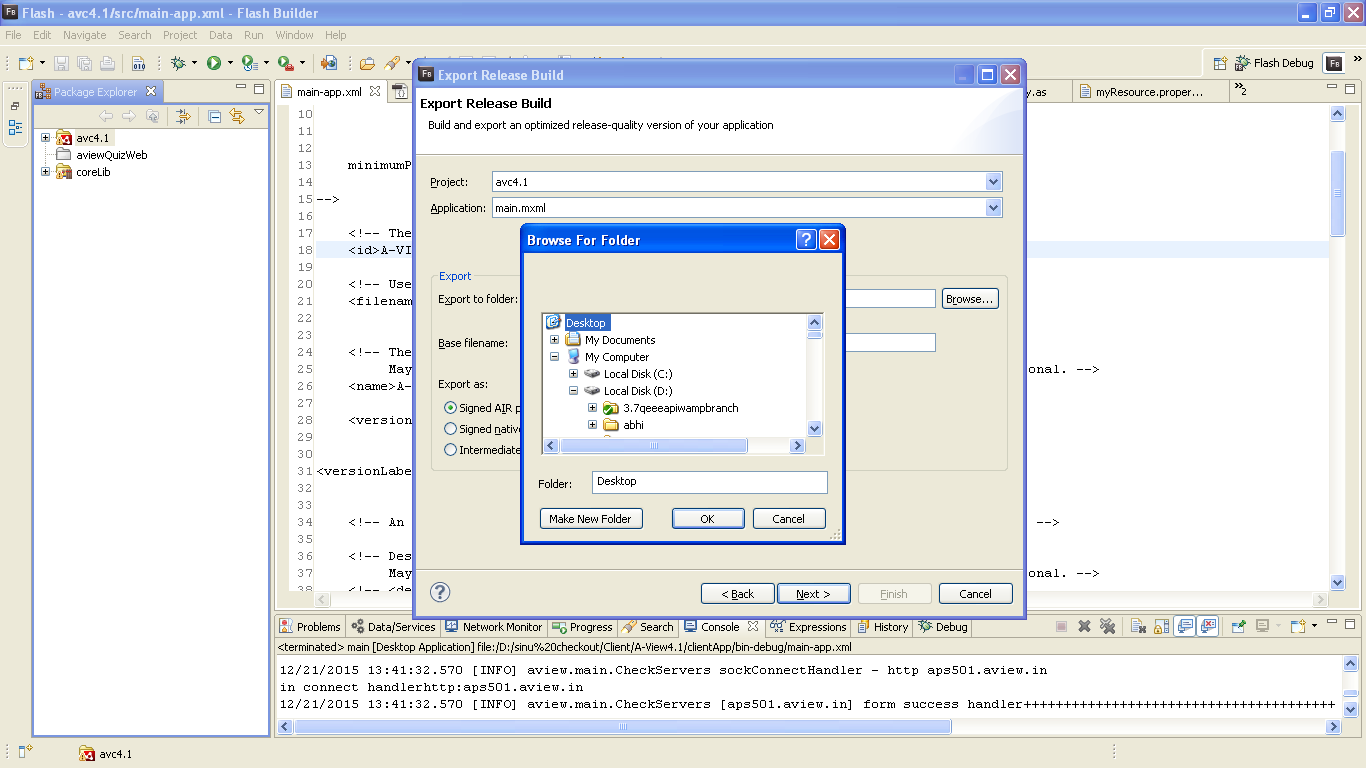
Select Release Build and click Next to continue



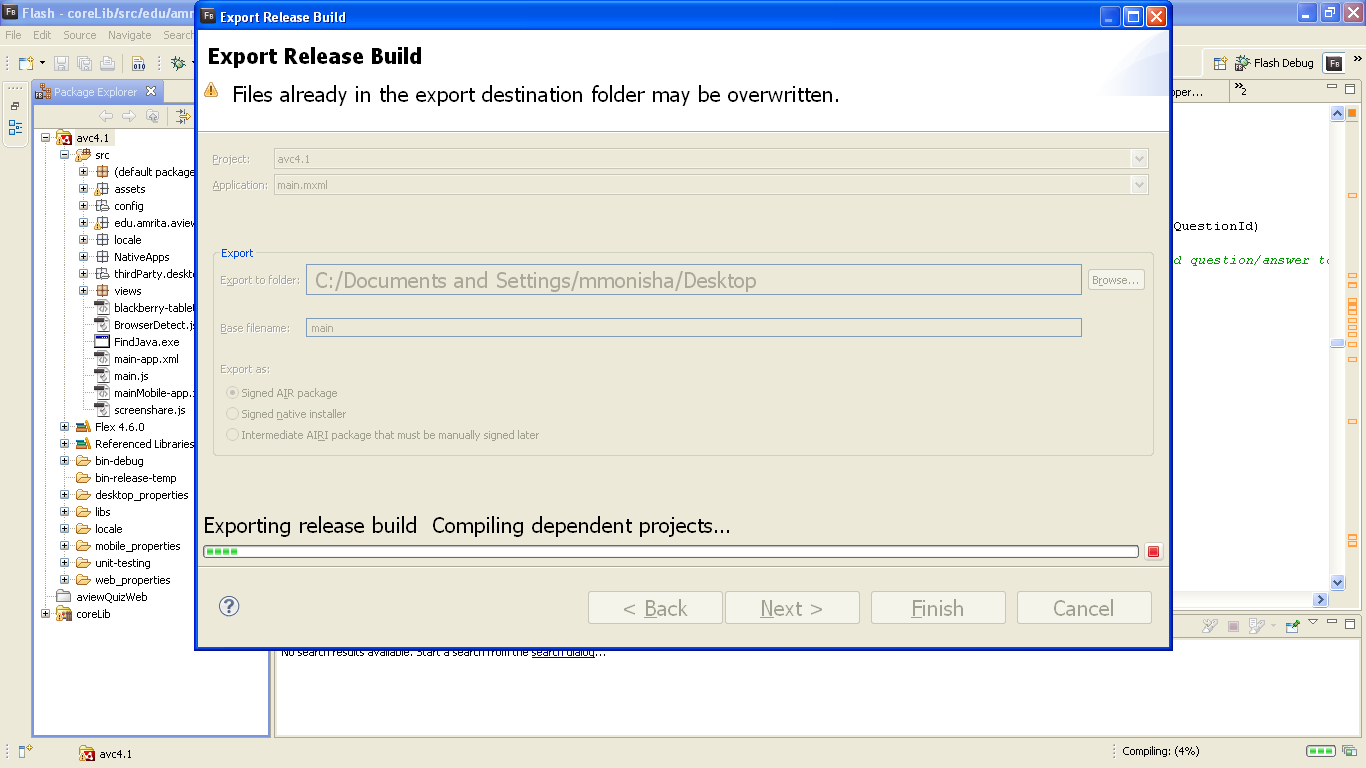
Select Signed Air package



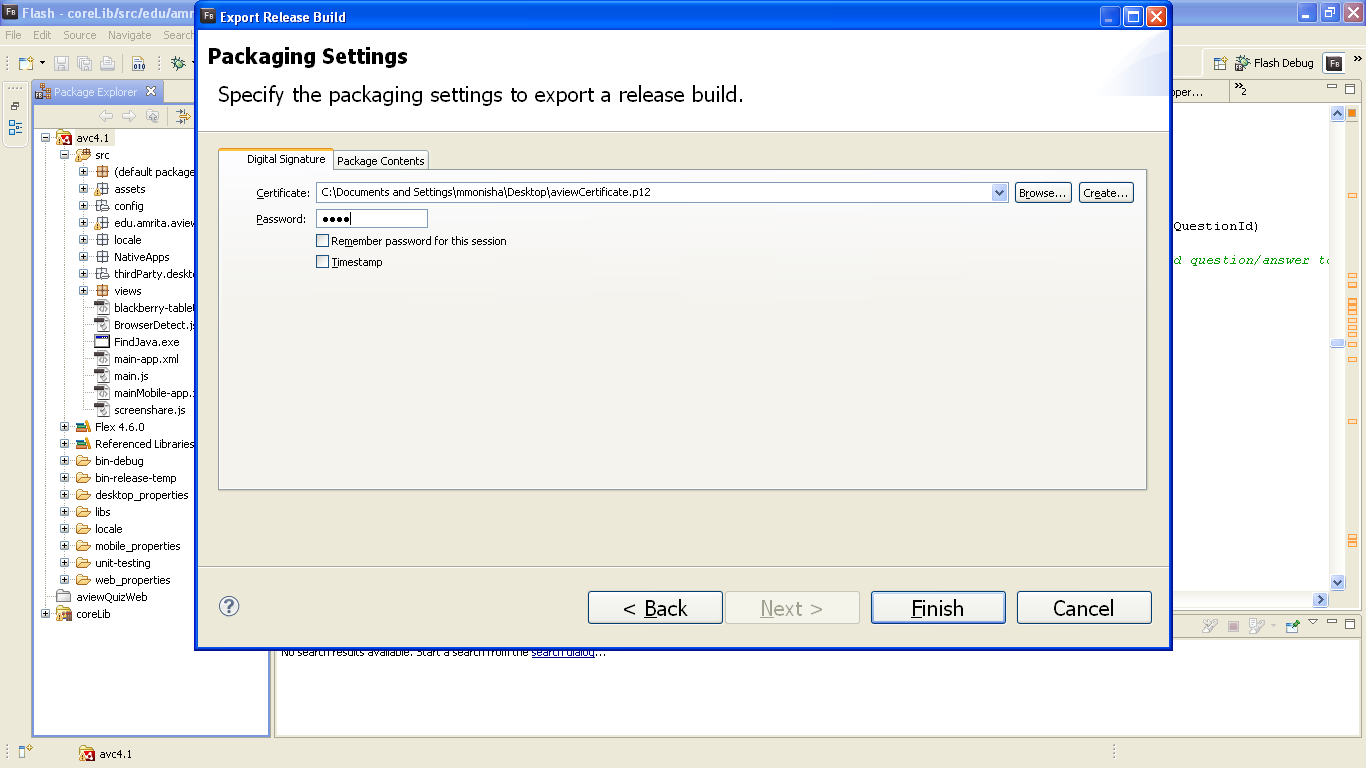
Browse to the location to export the installer



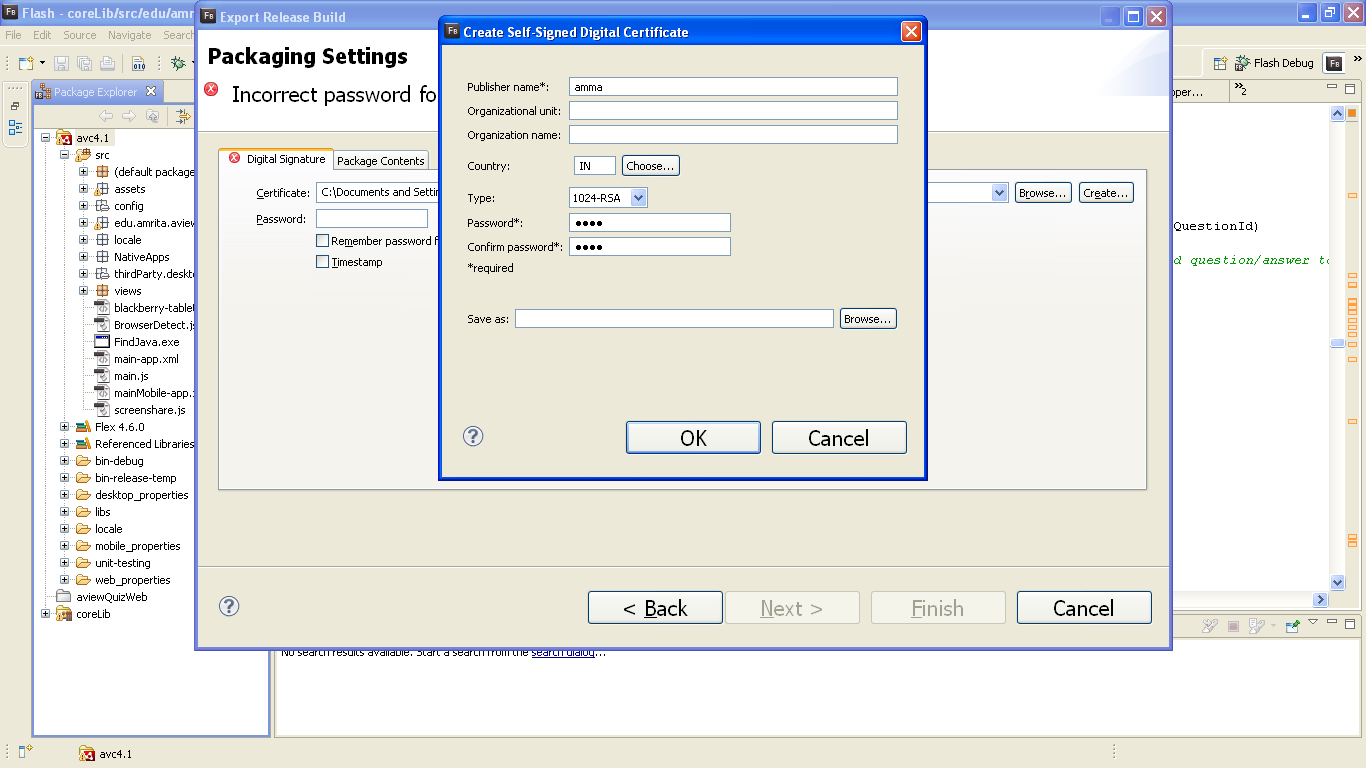
Click next and continue to export release build



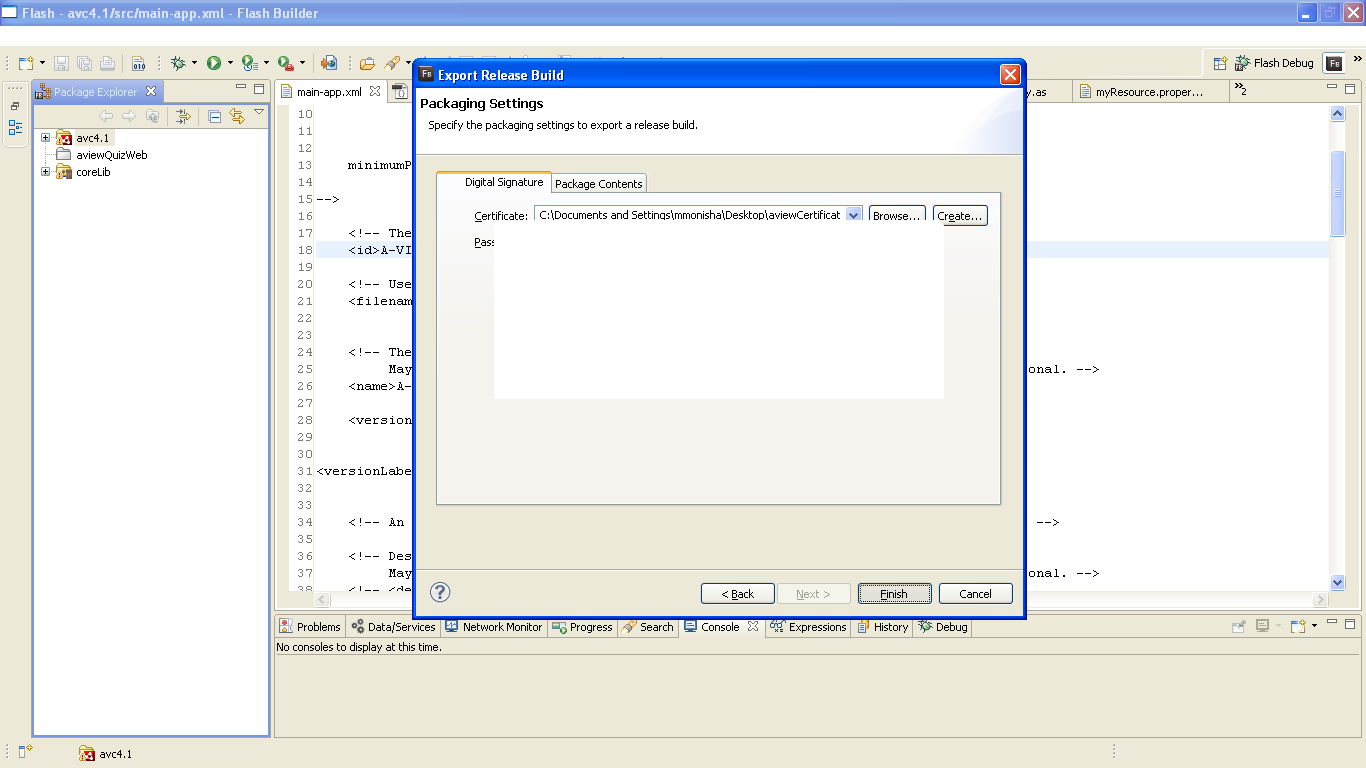
A certificate is required for completing the build. A new certificate can be created or an existing one can be used. If an existing certificate is chosen, the password needs to be specified which was given during the creation.



A new certificate can be created by clicking on the Create button. The required information needs to be entered in the Self Signed Digital Certificate Window along with a password. This certificate can be saved in your local PC for future use.



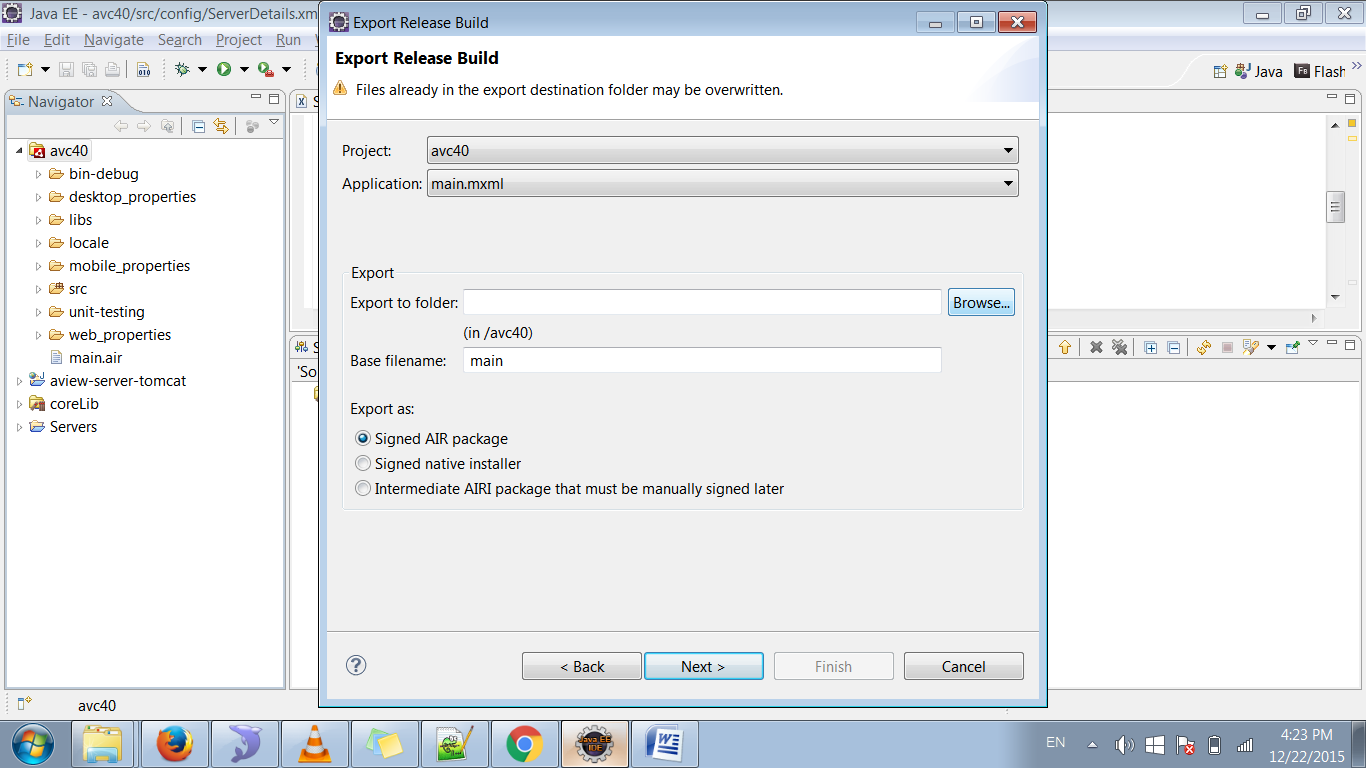
After the Digital Certificate is chosen, the installer is created by clicking on the Finish button



what is the name of the exe that gets generated when you run export ?  : Default is main.air or main.exe

where does the exe get generated?

The below figure asks the user to choose where their exe should be exported. Default is the project workspace itself.



# Prerequisites for installing the A-VIEW Client

Before installing A-VIEW Client Application, install the following software. For convenience they are made available.

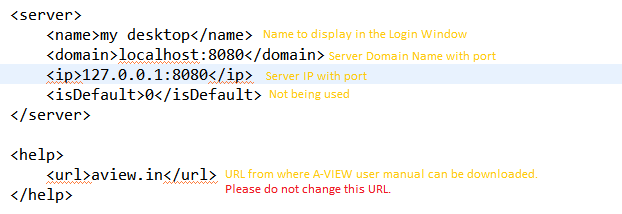
* AIR Runtime - http://aview.in/aview-third-party-tools/AIR.zip
* Java/JRE. Recommended version can be downloaded from <http://aview.in/aview-third-party-tools/JRE.zip>
* Screen Camera – Can be download from <http://aview.in/aview-third-party-tools/ScrCam.zip>

# Adding Server information to the Client App

Once you install the Server, you will need to update ServerDetails.xml with its information so that it is shown in the A-VIEW Login page. Please follow the steps below:

1. Edit clientApp\src\config\ServerDetails.xml

2. This xml can have aview servers to which one can connect



The domain name and IP address points to the Java Server the client needs to connect. Example: localhost:8080

# First-time A-VIEW Login

When logging into A-VIEW for the first time use the Master Administrator user name/password if you setup your own Development Server. By default this is administrator/administrator.

If you are connecting to a hosted Server, use the Login/Password that is provided to you by the Administrator of that Server.

# Command-Line Compilation using ant

You can also use the Ant build tool to compile everything from the command line. To do so perform the following steps:

* Ensure that all previous versions of A-VIEW are uninstalled.
* **Launch command window as Administrator (in Windows)**
* Install/Unpack the Flex AIR 4.6-3.4 SDK - Available from aview.in/aview-third-party-tools, as well as in Git aview-third-party-tools repo. (e.g., C:\Flex). Make sure there are no spaces in the directory name.
* Install Inno Setup 5.4.2 (or higher) available from the Gita view-third-party-tools repo.
* Install Ant 1.9.4 ([apache-ant-1.9.4.rar](https://github.com/aview/aview-thirdparty-tools/blob/master/apache-ant-1.9.4.rar) is available in the Git aview-thirdparty-tools repo)
* Make sure the Ant path (for the apache-ant-1.9.4\bin directory) is added to the system PATH variable (so just typing ant from command line works)
* Open the build.properties file (one time edit)
  + Update the flex.home.windows variable to point to the directory where your Flex SDK is installed (e.g., C:/Flex. For Windows use the forward-slash as shown in the example).
  + Update the INNOBASE\_DIR variable to point to the directory where you installed Inno Setup 5. Use forward-slash. If you installed Inno Setup with its defaults, the path in the configuration file should already be correct (e.g., C:/Program Files (x86)/Inno Setup 5).

Once these are done save build.properties.  
Goto command line, and type ant. This will perform a full build and the final installer will be available under the A-VIEW sub directory.