

close

Search

Search



essential

university

Document Search

Search...

Search



- [Introduction](#)
- [Essential Overview](#)
 - [Getting Started \(What is Essential?\)](#)
 - [The Essential Information Eco System](#)
- [How to be Successful with Essential](#)
 - [Identify Stakeholders and Concerns](#)
 - [Prioritise Delivery](#)
 - [Identify/Define the Views that will support Delivery](#)
 - [Identify any Meta Model extensions required and the impacts](#)
 - [Identify the data required, data sources, and population method](#)
 - [Plan Training/Consultancy](#)
 - [Extend Launchpad and build integrations and views as required](#)
 - [Complete Portal and Repository set-up](#)
 - [Capture data](#)
 - [Embed EA data management process to ensure data is maintained](#)
 - [Measure Value](#)
- [How to use Essential](#)
 - [Using Essential Overview](#)
 - [Logging In and The Homepage](#)
 - [Logging In \(Cloud/Docker\)](#)
 - [The Homepage](#)
 - [Setting a New Homepage](#)
 - [Capturing and Maintaining Data](#)
 - [Automatic Human Readable ID Creation](#)
 - [Create an Instance](#)
 - [Editing Instances](#)
 - [Editing Classes](#)
 - [Accessing the Import Utility](#)
 - [Restoring a Backup](#)
 - [Publish a Repository](#)
 - [Using Essential Set-Up Manager](#)
 - [Everyone's Essential Editors](#)
 - [Application Editor](#)
 - [Application Integration Editor](#)
 - [Application Lifecycle Editor](#)
 - [Application Strategy Editor \(Cloud/Docker only\)](#)
 - [Application Technology Deployment Editor](#)
 - [Business Capability Model Editor](#)
 - [Business Process Editor](#)
 - [Business Scenario Analyser](#)
 - [Business Model Portfolio Manager](#)
 - [Dynamic Query Tool](#)
 - [Editor Builder](#)
 - [Information Reference Model Editor](#)
 - [Matrix Editor](#)
 - [Project Editor](#)
 - [Proposal Editor \(Cloud/Docker\)](#)
 - [Strategic Motivation Editor](#)
 - [Supplier and Contracts Editor](#)
 - [Technology Component Editor](#)
 - [Technology Product Editor](#)
 - [Technology Reference Model Editor](#)

Manage consent

- [Technology Type Editor](#)
- [Technology Vendor Lifecycle Editor](#)
- [Simple Editor Creator](#)
- [AI Functionality](#)
- [Hints & Tips](#)
 - [Setting Colours](#)
 - [Adding Roles to Project Editor](#)
 - [Adding Roles to any Editor](#)
- [Bulk Data Imports](#)
- [Essential Import Utility – To Bulk Load Data](#)
 - [Creating Imports by defining an Import Specification](#)
 - [Using the Essential Import Utility](#)
 - [Cloud and Docker – Set-up](#)
 - [Cloud – Data Import](#)
 - [Open Source – Set-up and Data Import](#)
 - [How to Use the Essential Launchpad](#)
 - [Introduction and Adding Sites](#)
 - [Adding Business Capabilities](#)
 - [Adding Business Processes](#)
 - [Adding Business Process Families](#)
 - [Associating Business Processes to Sites](#)
 - [Associating Application Capabilities to Services](#)
 - [Associating Applications, Services and Users](#)
 - [Associating Servers to Applications](#)
 - [Associating Processes to Required Application Services](#)
 - [Associating Business Processes to Organisations and Applications used](#)
 - [Technology Domains, Capabilities, Components and Products](#)
 - [Create Application Technology Architectures](#)
 - [Creating Reference Architectures \(Launchpad Plus\)](#)
 - [Configuring Criteria, Scores, Colours, Etc](#)
 - [Extending Ranges](#)
 - [Launchpad Plus](#)
 - [Launchpad Exporter](#)
- [Open Exchange XML Data Loader \(Cloud/Docker\)](#)
- [Essential Viewer](#)
 - [Viewing Your Architecture Model](#)
 - [Viewer and Portal Set-up](#)
 - [Filtering Views and Roadmap Framework](#)
 - [Styling the Viewer and Adding Branding](#)
 - [How to add Branding to Viewer](#)
 - [Export to PowerPoint](#)
 - [Adding a New Report](#)
 - [Creating New Reports](#)
 - [Essential Internationalisation Framework](#)
- [Set Up Support Tools](#)
- [Extending the Essential Meta Model](#)
- [System Administration](#)
 - [Managing Users](#)
 - [Managing Repositories](#)
 - [Managing Viewers](#)
 - [Customise Essential Viewer](#)
 - [Manage Content Approvals](#)
 - [Apply EUP \(Essential Update Pack\)](#)
 - [Default Values for New Users](#)
 - [System Update \(Application and History\)](#)
 - [Audit Log](#)
- [Repository Administration](#)
 - [Managing Repository Users](#)
 - [Create a Snapshot](#)
 - [Managing Snapshots](#)
 - [Restore Snapshot](#)
 - [Copying Repositories](#)
 - [Importing a Protege File](#)
 - [Exporting a Protege File](#)
 - [Managing Layout Groups](#)

- [Manage Classifications](#)
- [How to Apply Security Classifications](#)
- [Theme Editor](#)
- [Managing User Security](#)
 - [Assigning access rights to New Users](#)
 - [Using a Default Class to Secure Everything](#)
 - [Security Classification of Views and Elements](#)
 - [Setting up User Security](#)
 - [Securing the Open Source Portal](#)
- [Essential Product Releases and Updates](#)
- [EA Tutorials](#)
 - [Business Architecture](#)
 - [Business Architecture Overview](#)
 - [Business Modelling](#)
 - [Business Principles](#)
 - [Business Goals and Objectives](#)
 - [Business Capability Modelling](#)
 - [Business Process Modelling](#)
 - [Organisation Model](#)
 - [Value Streams and Customer Journeys](#)
 - [Business Value Chain Modelling](#)
 - [Application Architecture](#)
 - [Application Architecture Overview](#)
 - [Application Modelling Overview](#)
 - [Application Modelling](#)
 - [Application Service Modelling](#)
 - [Application Families](#)
 - [Application Diversity Analysis](#)
 - [Application Technology Architecture](#)
 - [Application Deployments](#)
 - [Software Components](#)
 - [Technology Architecture](#)
 - [Technology Architecture Overview](#)
 - [Technology Modelling Overview](#)
 - [Defining Technology Capabilities](#)
 - [Defining a Technology Component](#)
 - [Technology Component Architectures](#)
 - [Defining Technology Providers](#)
 - [Define Technology Provider Roles](#)
 - [Defining Technology Product Builds](#)
 - [Deploying Technology to Technology Nodes](#)
 - [Define a Technology Provider Usage](#)
 - [Defining Technology Composite](#)
 - [Modelling Different Technology Types](#)
 - [Information Architecture](#)
 - [Information Architecture Overview](#)
 - [Information and Data Modelling](#)
 - [Information Modelling – Information Concepts](#)
 - [Information Modelling – Information Views](#)
 - [Data Modelling – Data Catalogue](#)
 - [Linking Information and Data to Processes and Applications](#)
 - [EA Support/Utilities](#)
 - [Change Management](#)
 - [Strategy Management](#)
 - [Enumerations](#)
- [Essential Meta Model Diagrams](#)
 - [Essential Meta Model \(Overview\)](#)
 - [Business Layer](#)
 - [Application Layer](#)
 - [Information/Data Layer](#)
 - [Technology Layer](#)
 - [EA Support](#)
 - [Meta Model Constructs](#)
 - [Business Domain IT Analysis](#)
 - [Business Domain Process Analysis](#)

- [Business Reference Model](#)
- [Business Process to Physical Process](#)
- [Business Service to Application](#)
- [Business Service User](#)
- [Application Reference Model](#)
- [Application to Application Services](#)
- [Application Diversity Analysis](#)
- [Applications Service to Business Process](#)
- [Application Software Architecture](#)
- [Applications to Database Mapping](#)
- [Static Architecture](#)
- [Information Reference Model](#)
- [Data Object Model](#)
- [Regulations](#)
- [Issues to Related Element](#)
- [Supporting Documentation – External Reference Links](#)
- [Managing Costs](#)
- [Technology Reference Model](#)
- [Essential Modelling Patterns/Definitions](#)
- [How to Populate Essential Views](#)
 - [Roadmap Enablement and Scoping Frameworks](#)
 - [Enterprise Views](#)
 - [Business Strategy Overview](#)
 - [Enterprise Architecture Navigator](#)
 - [IT Asset Dashboard](#)
 - [Roadmap Dashboard](#)
 - [Strategic Roadmap](#)
 - [Strategic Plan Summary](#)
 - [Strategic Goals Model](#)
 - [EA Principles](#)
 - [Programme Plans](#)
 - [Project People Network](#)
 - [Business Capability to Project Tree](#)
 - [Strategy Planner](#)
 - [Design Authority](#)
 - [Essential Framework Manager](#)
 - [Issue Catalogue](#)
 - [Decision Dashboard](#)
 - [Bus Process Location Map \(Process Dashboard\)](#)
 - [Lifecycle Viewer](#)
 - [Group Actor Summary](#)
 - [Supplier Impact Analysis Map](#)
 - [Business Views](#)
 - [Business Capability Dashboard](#)
 - [Business Capabilities to Technology \(Tree/Force\)](#)
 - [Business Service Interaction Model](#)
 - [Business Domain Process Analysis](#)
 - [Business Capability Summary](#)
 - [Business Service Summary](#)
 - [Value Stream Views](#)
 - [Business Objective Summary](#)
 - [Business Performance Model](#)
 - [Business Function Service Model](#)
 - [Business Process Application Mapping](#)
 - [Information Views](#)
 - [Information Reference Model](#)
 - [Data Catalogues and Models](#)
 - [Data Representation Catalogue and Summary](#)
 - [Data Object Summary](#)
 - [Data Object Provider Model](#)
 - [Data Subject Summary](#)
 - [Information Concept Summary](#)
 - [Information View Summary](#)
 - [Data Security Model](#)
 - [Application Views](#)

- [Application Reference Model](#)
- [Application Catalogue](#)
- [Application Rationalisation Analysis](#)
- [Application Deployments](#)
- [Application Information Dependency Model](#)
- [Application Information Dependency Model v2](#)
- [Application Software Architecture](#)
- [Disposition/TIME Model](#)
- [Application Lifecycle](#)
- [Application Summary](#)
- [Application Service Summary](#)
- [Application Impact Analysis](#)
- [Application Information Data Summary](#)
- [Application Landscape](#)
- [Application to Process RPO/RTO](#)
- [Technology Views](#)
 - [Technology Reference Model](#)
 - [Technology Component Catalogue and Summary](#)
 - [Security Impact](#)
 - [Application Technology Strategy Alignment](#)
 - [Application Deployments](#)
- [Open Source](#)
 - [Open Source Overview](#)
 - [Open Source Multi-User](#)
 - [Essential Viewer Cache](#)
 - [Enabling Collaboration](#)
 - [Stopping and Starting Protege Server](#)
 - [Multi-user Back-ups](#)
 - [Database Back-ups](#)
 - [Server Back-up Scripts](#)
 - [Multi-user Windows Service Dependencies](#)
 - [Multi-user Troubleshooting](#)
 - [Open Source Installation](#)
 - [Single User Installation](#)
 - [Multi-User Installation](#)
 - [Configuring Memory](#)
 - [Using a Database with Standalone](#)
 - [Accessing Essential OS](#)
 - [Essential OS Buttons](#)
 - [Essential View Configuration](#)
 - [Configuring the Metaproject](#)
 - [Running Essential Server as Windows Service](#)
 - [Essential Snapshot Tab](#)
 - [Essential Update Tab](#)
 - [Essential Viewer Cache](#)
 - [Configuring Forms in Open Source](#)
 - [Post Size Limit](#)
 - [Server Reboot](#)
 - [Enabling Collaboration](#)
 - [Downloads](#)
 - [Graphviz Install](#)
 - [Accessing Essential OS](#)
 - [Essential OS Buttons](#)
- [FAQs](#)
 - [Modelling in Essential](#)
 - [Data Capture, Maintenance and Releases](#)
 - [Viewer](#)
 - [User Management and Security](#)
 - [Launchpad and Import Utility](#)
 - [Browser Support](#)
 - [Open Source Configuration](#)

Single User Installation

15 min

Manage consent

This installation guide details the process for installing Essential Open Source in the Stand-Alone mode.

External Dependencies

Essential Open Source has some external dependencies that are required before setting up Essential.

1. Java Runtime Environment

Before starting the installation of Essential Open Source, confirm whether or not a JVM has been installed. From a command prompt, type:

```
java -version
```

The resulting message from Java should show a JVM version at or above version 1.8.x. If a JVM is already present that meets the required version, there is no need to install the JVM that is provided with Protege.

If you do not already have a Java Runtime Environment installed, please download and install the [correct JRE/JVM for your platform](#).

2. Install Protege

If you have not already installed Protege, install it by running the installation program.

2.1 Microsoft Windows

The following steps should be followed to install Protege on a Microsoft Windows Platform.

- Run the install_protége.exe file.
- Select the option to install “Everything” as this will include the optional tab widgets that may prove useful at a later date, e.g. Prompt, Jambalaya.
- Select the installation folder, preferably take the default in Program FilesProtege_x.x.x
- Select the JVM that Protege should use. If from Step 3, a suitable JVM (version 1.8 or above) has already been installed, select that JVM.
- Select ‘Next’ until the installation completes.

2.2 Other platforms – Mac OS X, Linux, Unix

Run the Protege installer for your platform and follow these steps:

- Select the option to install “Everything” as this will include the optional tab widgets that may prove useful at a later date, e.g. Prompt, Jambalaya.
- Select the installation folder, preferably take the default
- Select the JVM that Protege should use. If from Step 3, a suitable JVM (version 1.7 or above) has already been installed (this will be the case on Mac OS X), select that JVM.
- Select ‘Next’ until the installation completes.

2.3 Configure Protege

Please open Protege now.

- Go to the ‘File’ menu and select ‘Preferences’.
- Un-select the option ‘Sort class tree (Classes Tab)’ to ensure that the Essential Meta Model class hierarchy is shown in the correct order.
- Click OK and exit Protege.

3. Apache Tomcat Java Application Server

If you do not already have Tomcat (or an alternative Java Application Server that can run Java Servlets) installed, please install it by running the installation program for your platform.

Like Protege, Tomcat requires Java v1.8 or above. For simplicity, select the same JVM that was selected during the Protege installation. In this case when prompted by the Tomcat installer, select the path to the folder “jre”.

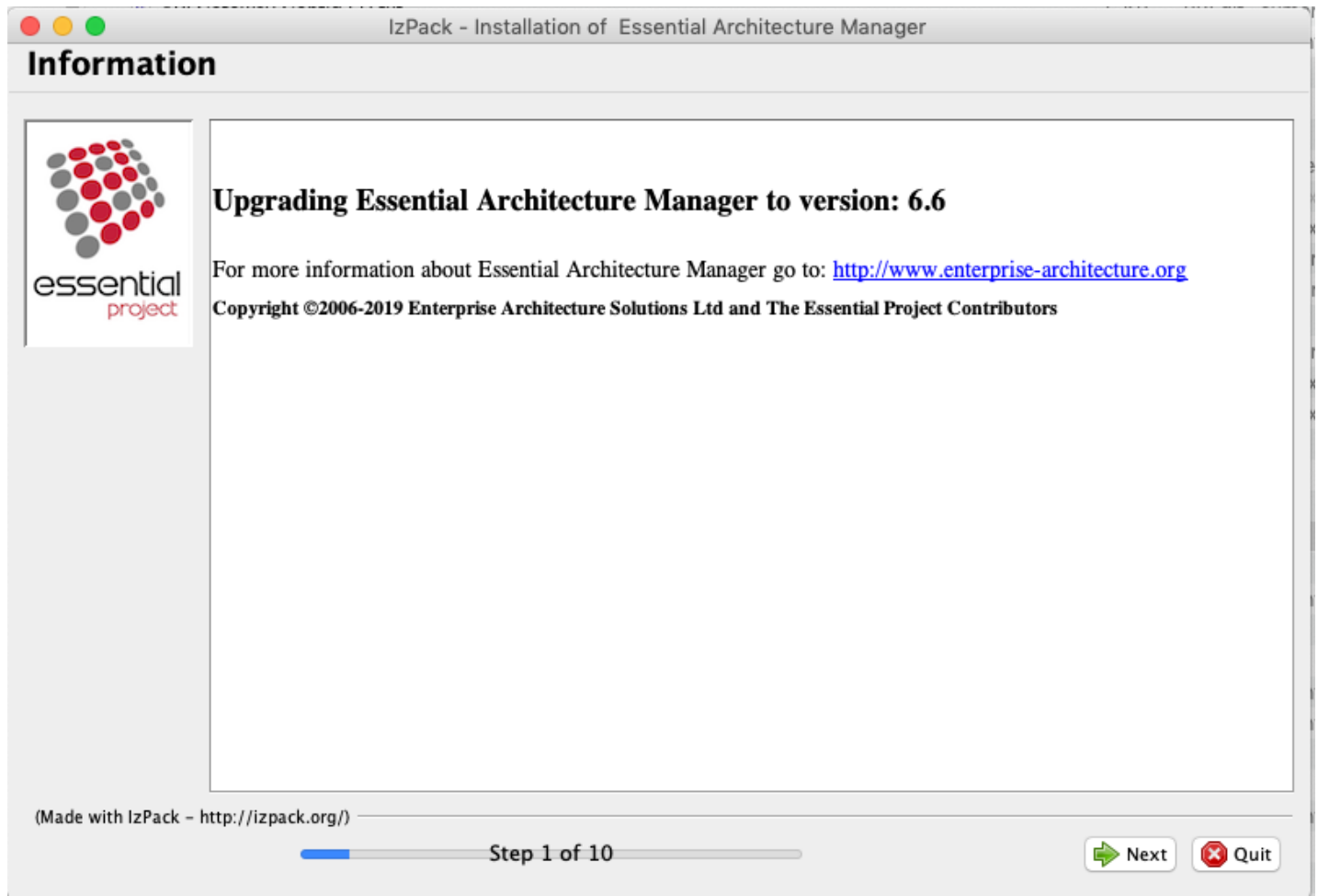
Core Components

Essential Open Source is comprised of four core components which must be installed separately.

Essential Widgets

Essential Widgets is a set of custom-built plug-ins for the Protege Ontology Editor.

1. Run Essential Widgets Installer



Having installed the pre-requisites, run the Essential Widgets installer, which will guide you through the rest of the installation process. The following sections in this guide provide additional detail about the options for the installer and the questions that it will ask.

To run the installer:

Double click on the Essential Install JAR File.

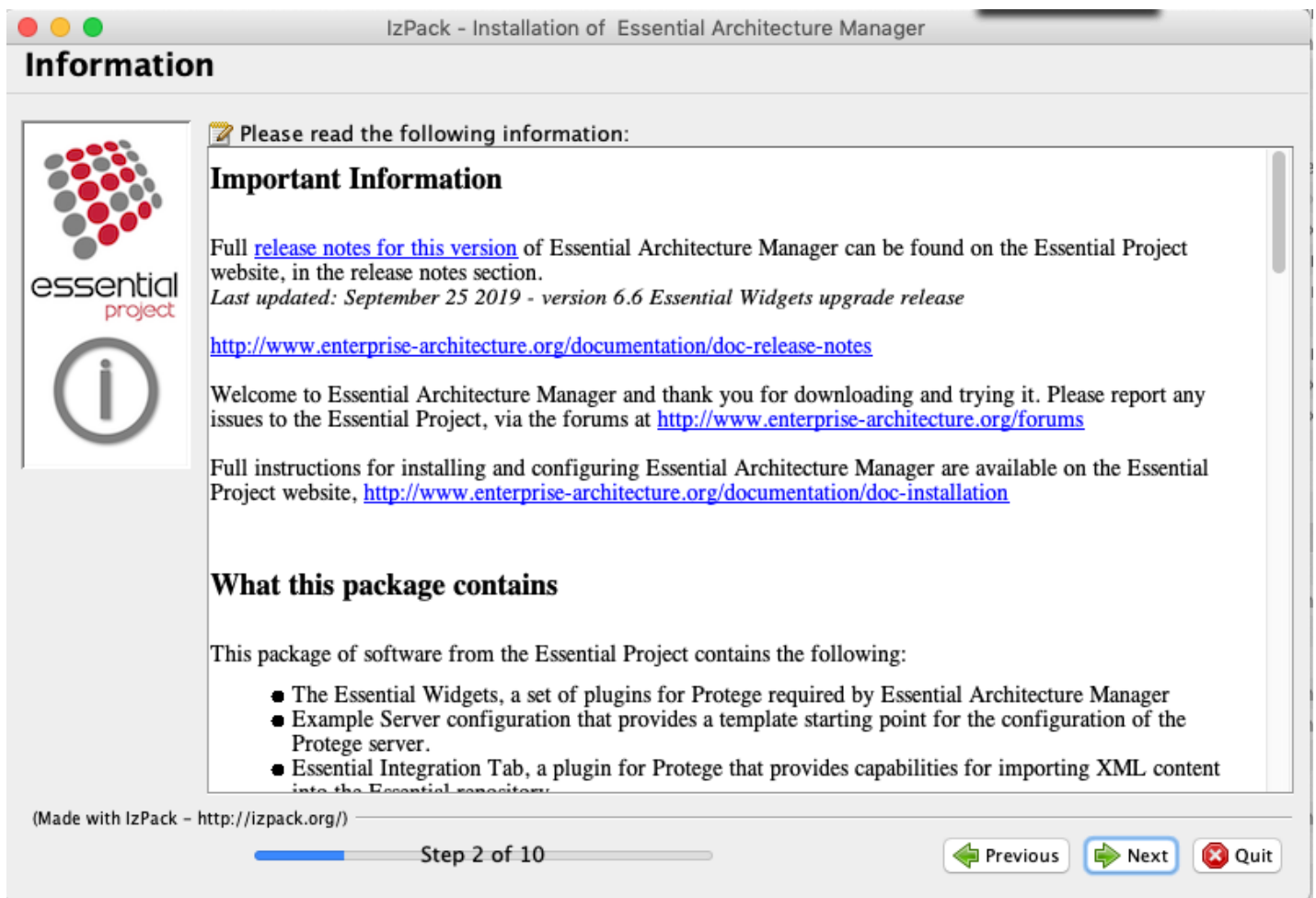
If, for some reason the installer is not recognised as an executable JAR file, use the following command at command prompt/terminal window:

```
java -jar essentialinstallxx.jar
```

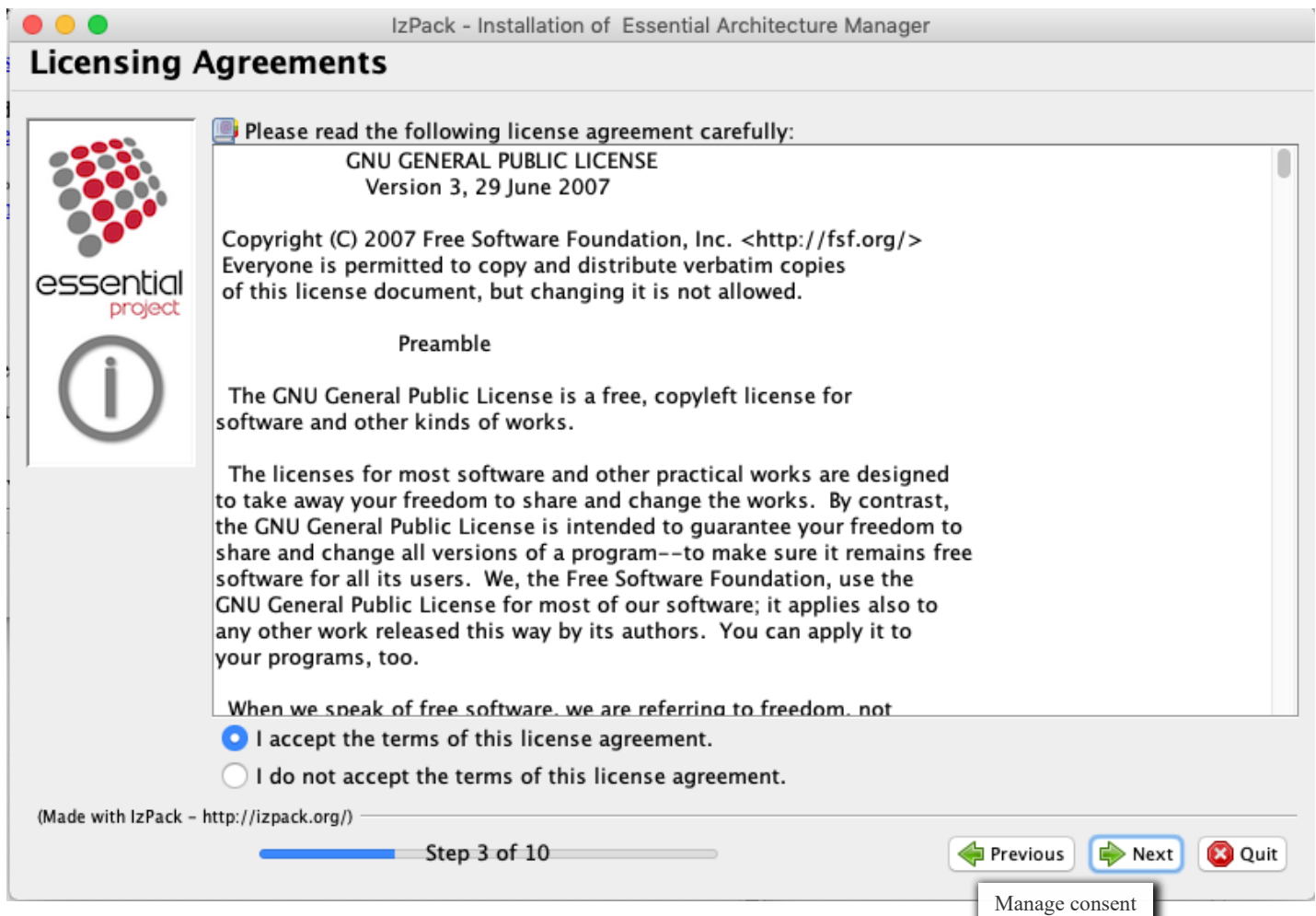
(where xx is replaced by the version number as required)

You will now see the welcome panel of the installer and will be guided through the install process.

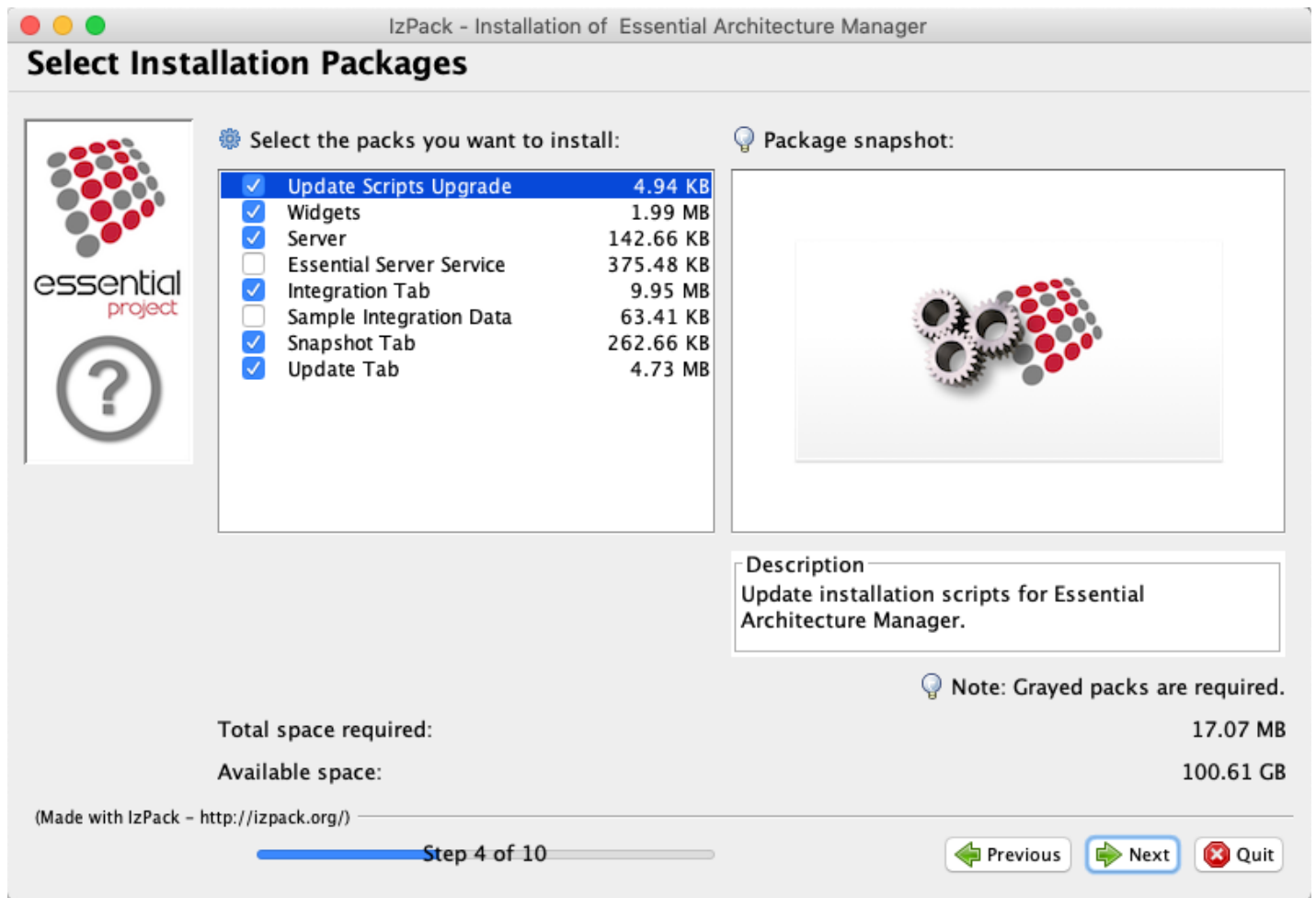
2. Important Information and License Agreement



The Information Panel provides important information about the installation and pre-requisites. Please read these before proceeding to the license agreement.



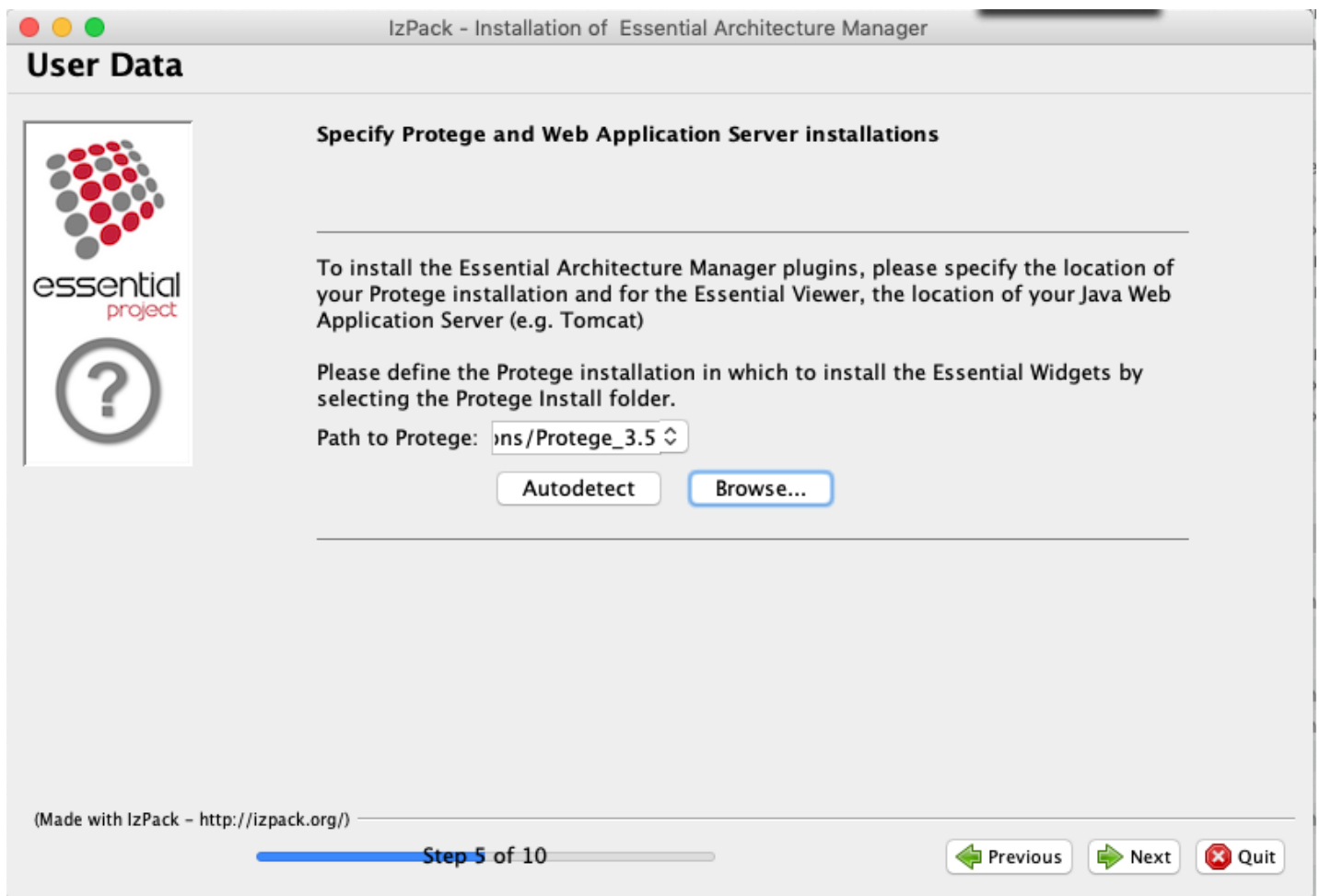
3. Select Essential Open Source Packages to Install



The Essential Open Source installer is divided into packages, enabling the installer to be used for installation possibilities.

For standalone installations, the 'Server' pack is optional but you can select all the install packages.

4. Specify Protege and Tomcat Locations



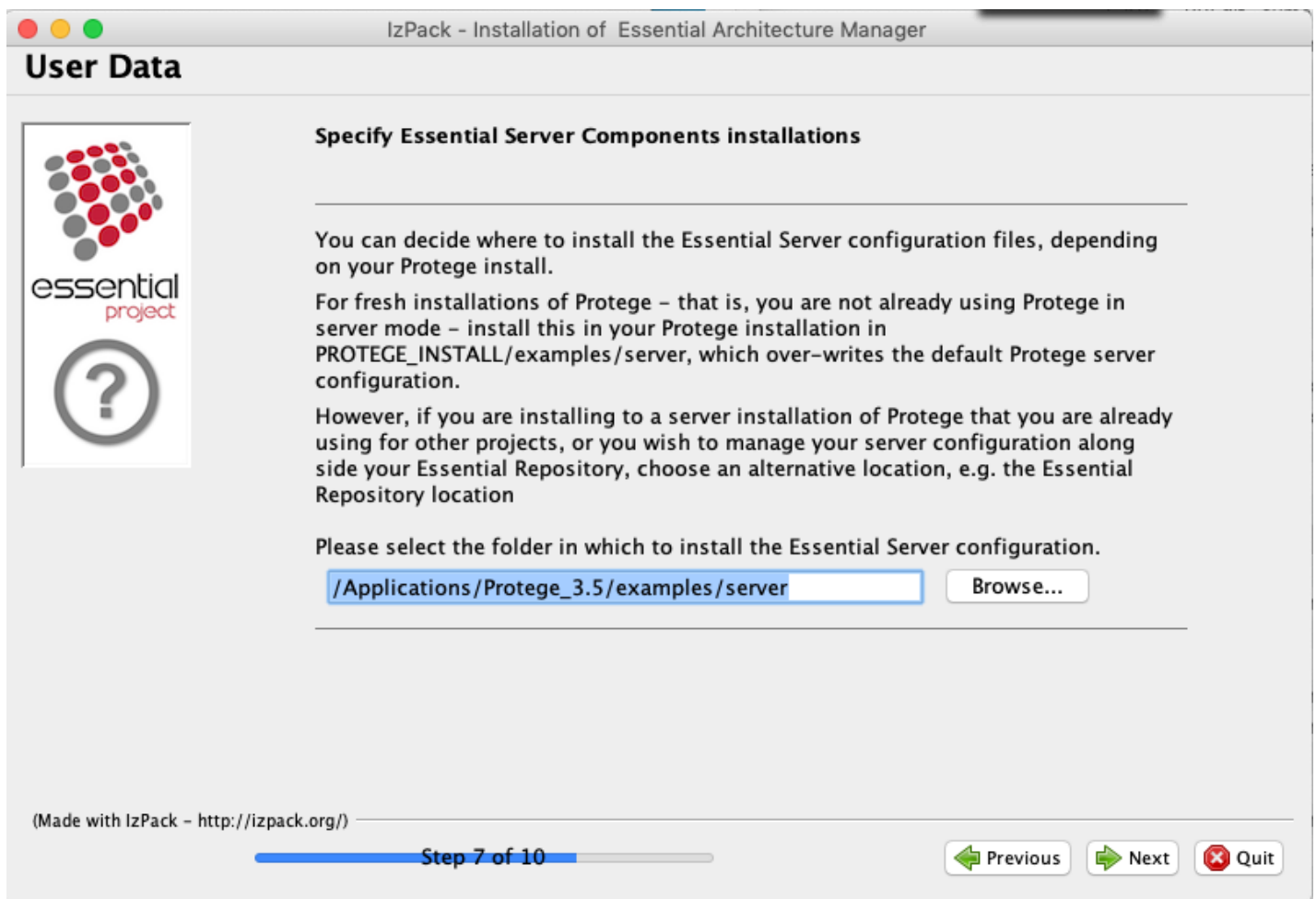
Essential Open Source includes plugins that must be installed into your Protege and Apache Tomcat (or alternative Java Web Application Server) installations.

The installer will ask you to specify the location of both your Protege and Apache Tomcat (or alternative Java Web Application Server). An attempt to automatically find Protege and Apache Tomcat in typical installation locations will be made. If the installer cannot find your Protege and Apache Tomcat installations, please use the 'Browse...' button to specify the folders in which they are installed.

If you have multiple versions of Protege installed, use the drop-down box or the 'Browse...' button to select which version of Protege that the Essential Widgets should be installed into.

When you select an location for either Protege, the installer will verify that location to ensure that you have selected a valid folder. Select the correct deployment location for Essential Viewer in your Web Application Server installation. For Apache Tomcat, select /webapps. For other Java Web Application Servers, please refer to your supplier's documentation for Web Application deployment to find the correct location for deploying the Essential Viewer WAR file.

5. Essential Open Source Server Configuration (Optional)

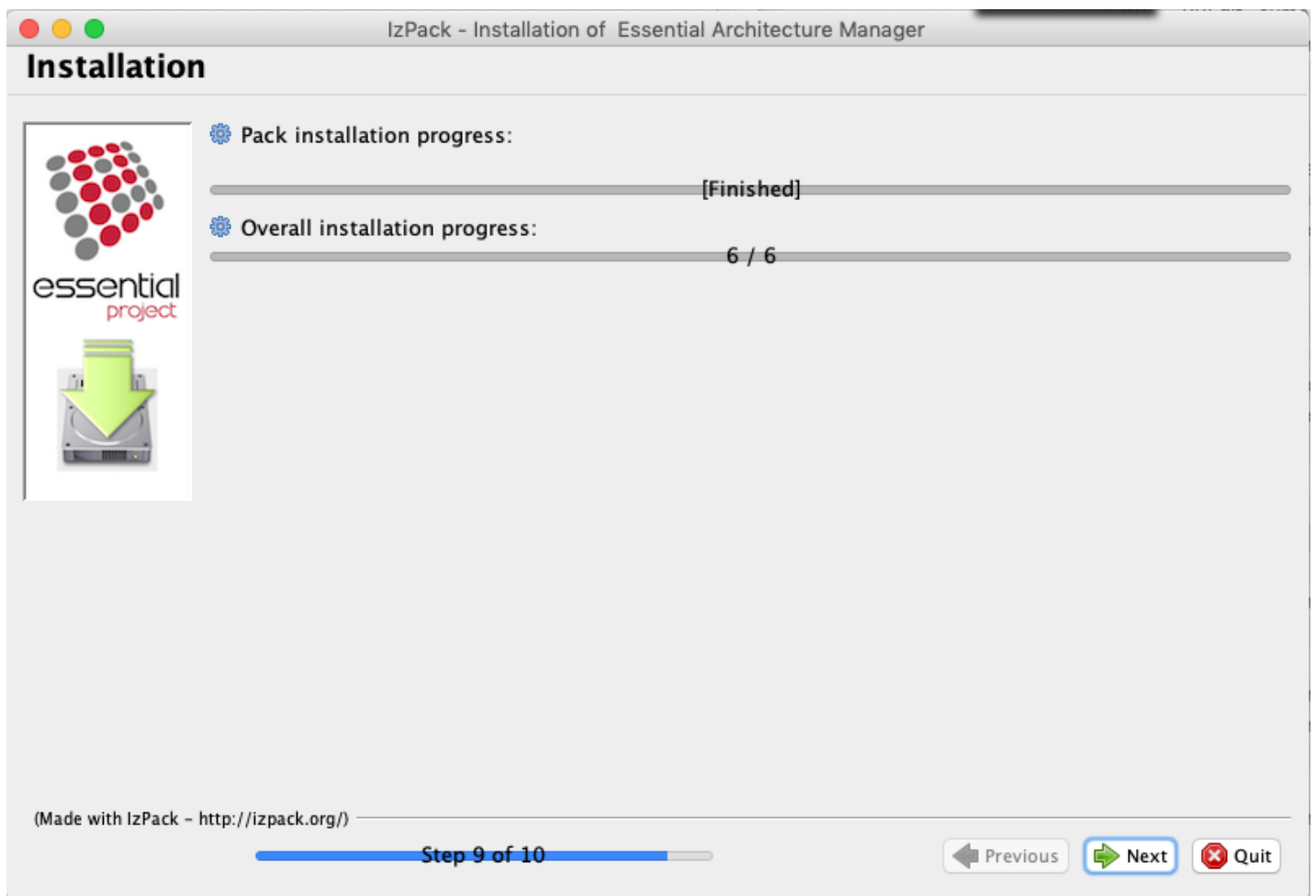


Even though this is a stand-alone installation, to aid future migrations to a server-based multi-user installation, you can choose to install the Server components of the installation.

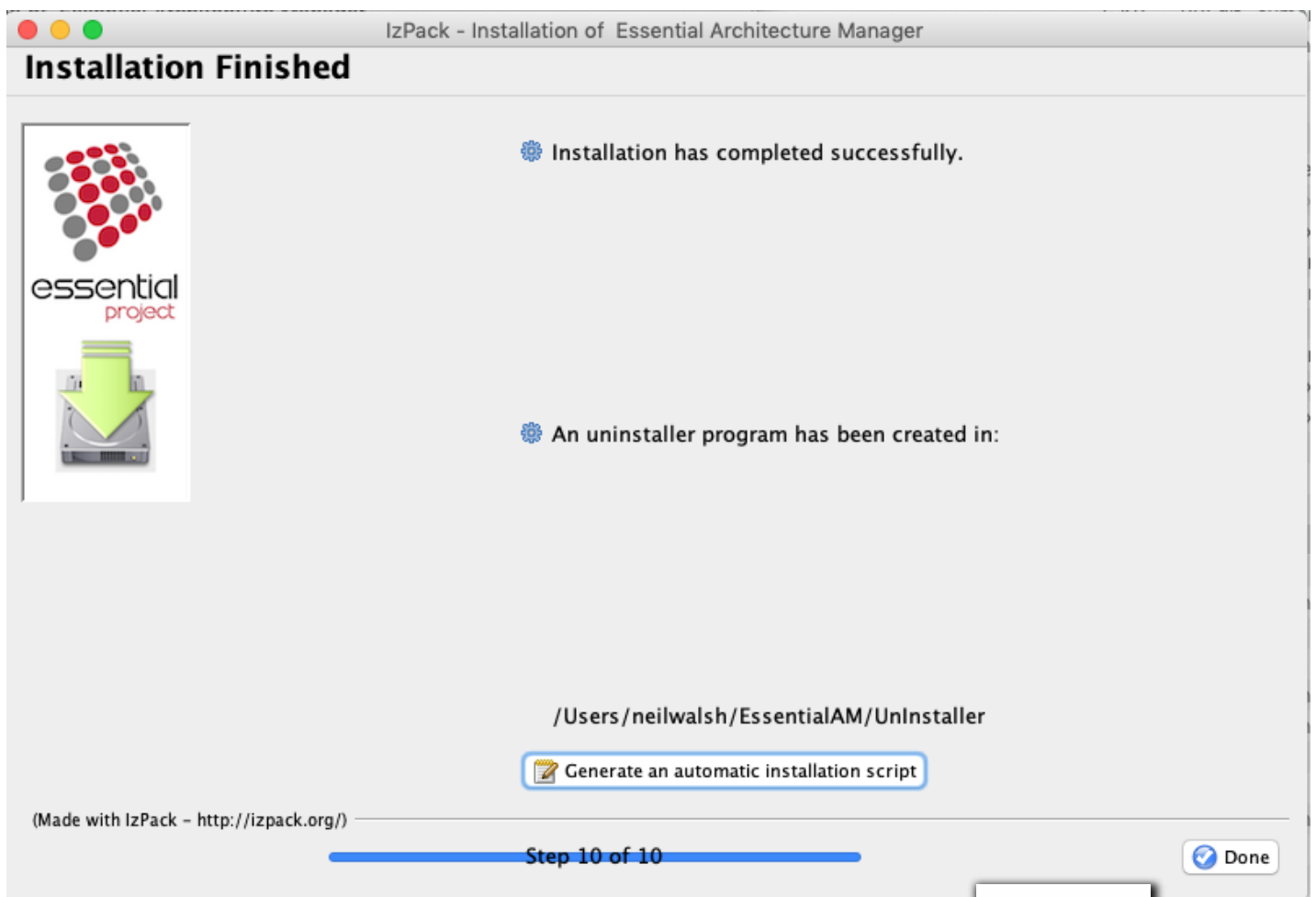
If you are installing to a fresh installation of Protege, select the default option to install the server configuration directly into the Protege environment.

However, if you are installing Essential Open Source to a machine that already has Protege installed and running as a server in a multi-user environment, you should select an alternative location at this step of the installation, e.g. your Essential Repository location, to avoid the existing server configuration being over-written.

6. Finished



The installer will now install all the components of Essential Open Source to the locations that you have specified in the above steps.



Manage consent

When the installation has completed successfully, you can create an automated installer to repeat this installation configuration, e.g. to install another verbatim copy on another machine. Select the 'Generate an automated installation script' option and specify the name and location of your automated install script.

Essential Meta-Model

Both the meta-model and the model for Essential Open Source are contained in the repository which is controlled from a Protege project file, and has the file extension, .pprj

Download and save this to a user accessible area on your machine such as your Documents folder. Unzip and then open the resulting PPRJ file using Protege.

All changes to the model are stored in this file and we recommend you take regular backups of the file in the event you wish to revert the repository to an earlier state.

Essential Viewer

Essential Viewer is a Java Web Application for publishing, analysing and reporting against enterprise architecture models captured using the Essential Meta-Model.

- Download and save the latest Essential Viewer WAR file.
- Rename the file to "essential_viewer".
- Copy the renamed file to the "webapps" folder of your Tomcat installation folder.

Essential Import Utility

Essential Import Utility is a Java Web Application for importing existing content from spreadsheets into the Essential repository.

- Download and save the latest Essential Import Utility WAR file.
- Rename the file to "essential_import_utility".
- Copy the renamed file to the "webapps" folder of your Tomcat installation folder.

Start Tomcat

If it is not already running, please start Tomcat using the appropriate method for your operating system

Configure Memory Settings

Please check the memory settings are correctly configured for your set-up, see [memory settings](#)

Installation Complete

Your stand-alone installation of Essential Open Source is now complete. Now go to the [Getting Started Tutorials](#) to find out more about capturing and analysing your architecture with Essential Open Source.

The Essential Baseline repository is an empty project in which you can start capturing details of your architecture. Download and explore the latest [Sample Repository](#) for an example of how to use Essential Open Source.

Troubleshooting

- On Windows 8 or Windows 10 platforms, if the installer fails to install the Essential Open Source plugins to the Protege install folder in Program Files, right-click on the installer program and use the 'run as administrator' facility.
- On newer Mac operating systems you may need to disable Gatekeeper for the install. See this [article](#). Make sure you re-enable Gatekeeper after you have installed the software
- After installation, if Essential Viewer is not responding or the Report Service is not responding, check that the essential_viewer.war has been extracted and deployed to your web application server (e.g. Apache Tomcat) webapps folder. If the WAR file does not extract when you restart Apache Tomcat, you can deploy the WAR using the Tomcat Manager.

Running the Essential Open Source installer simplifies the installation process and helps to ensure that the Essential software components are installed correctly.

Manage consent

Updated 31 October 2023

- [PreviousMulti-user Troubleshooting](#)
- [NextMulti-User Installation](#)

Table of Contents

- [External Dependencies](#)
- [1. Java Runtime Environment](#)
- [2. Install Protege](#)
- [2.1 Microsoft Windows](#)
- [2.2 Other platforms – Mac OS X, Linux, Unix](#)
- [2.3 Configure Protege](#)
- [3. Apache Tomcat Java Application Server](#)
- [Core Components](#)
- [Essential Widgets](#)
- [1. Run Essential Widgets Installer](#)
- [2. Important Information and License Agreement](#)
- [3. Select Essential Open Source Packages to Install](#)
- [4. Specify Protege and Tomcat Locations](#)
- [5. Essential Open Source Server Configuration \(Optional\)](#)
- [6. Finished](#)
- [Essential Meta-Model](#)
- [Essential Viewer](#)
- [Essential Import Utility](#)
- [Start Tomcat](#)
- [Configure Memory Settings](#)
- [Installation Complete](#)
- [Troubleshooting](#)



Useful Links

- [Essential Cloud](#)
- [Essential Launchpad](#)
- [Pricing & Comparison](#)
- [Contact](#)
- [About EAS](#)

Get In Touch

- team@enterprise-architecture.org

Suite 428,
39A Barton Road,
Water Eaton,
Bletchley,
Bucks,
MK2 3HW,
UK

Newsletter

Sign up for our newsletter to receive the latest updates and information about Essential.

-
-

- [Legal](#)
- [Privacy Policy](#)
- [Cookie Policy](#)

Manage consent

