JuliaPro

(v1.0.5-2)

Installation Manual and Quickstart Guide

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1. Objective

This guide details the installation procedure and usage of the base JuliaPro package and JuliaPro's Juno IDE.

2. Prerequisites

- An appropriate version of Microsoft® Windows®
 - Windows 7 SP1, Windows 8, Windows 8.1, Windows 10
 - Windows Server 2008 R2, Windows Server 2012, Windows Server 2012 R2, Windows Server 2016
- 5 GB of disk space
- Active Internet connection
- LinkedIn or Gmail or GitHub account (Either one of these accounts are required for authentication)

3. Installing JuliaPro

Once the requirements are met, you can start the JuliaPro installation using the executable provided.

File Home	Share	View	Application Tools Manage	JuliaPro			
← → × ↑ 📙	> This	PC → Dov	vnloads → JuliaPro				
🖈 Quick access		Name	^		Date modified	Туре	Size
Desktop	*	😫 JuliaP	ro_v1.0.1.1_build-42	б.ехе	08-Oct-18 5:31 PM	Application	291,686 KB
👆 Downloads	*						
Documents	*						
Pictures	*						

To execute the installer with Administrative privileges, right click on the JuliaPro_v1.0.5-2.exe and select "Run As Administrator". To execute the installer as the current user, just double-click on the executable.



Upon launching the executable, you might be presented with a User Account Control permissions window.

If the installer is being executed with Administrative privileges, then click "Yes" to proceed with the installation.

😗 User	Account	Control		X
?	-	u want to allow t es to this compu	the following program ter?	to make
	••	Verified publisher: J	lulia Professional Edition J ulia Computing, Inc. Hard drive on this computer	
⊗ Sł	now detai	ls	Yes	No
			Change when these notif	ications appear

Upon starting the installation, you will be presented with the JuliaPro Software License Agreement. After reading through the terms mentioned in the agreement, click "I Agree" if you accept the terms of the license and proceed with the installation.

🗱 JuliaPro 1.0.1.1 Setup	Windov@Snip 🗙
License Agreement	
Please review the license terms before installing JuliaPro 1.0.1.1.	
Press Page Down to see the rest of the agreement.	
JULIA COMPUTING, INC. END USER LICENSE AND SUPPORT AGE	REEMENT
IMPORTANT	
THIS IS A LEGAL AGREEMENT BETWEEN AND JULIA COMPUTING, INC. ("JULIA C	
If you accept the terms of the agreement, click I Agree to continue. agreement to install JuliaPro 1.0.1.1.	You must accept the
Nullsoft Install System v3.02.1	
I	Agree Cancel

If the installer is being executed with Administrative privileges, then you will be presented with the following installation option:

8	JuliaPro 1.0.1.1 Setup —	\times
(Choose Installation Mode	
	Please select an appropriate installation mode.	
	Install for:	
	\bigcirc Current User (JuliaPro can only be accessed by the current user.)	
	Shared Drive (Place JuliaPro on a Shared Drive where multiple users can access all ins components.)	talled
	All Users (Requires Admin privileges. JuliaPro can be accessed by all user accounts on computer.)	this
	comparenty	
N	ullsoft Install System v3.02.1	
	< Back Next > Car	ncel
	• All Usore: This installation option requires the current user	to how

• All Users: This installation option requires the current user to have Administrator privileges and will default to installing JuliaPro to a location available to all system users. The default location is a folder created at the location of the current %HOMEDRIVE% environment variable. Selecting this option also allows for a user with Administrative privileges to install Julia Professional to a shared network drive location.

If the installer is being executed without Administrative privileges, then you will be presented with the following two active installation options:

🚼 JuliaPro 1.0.1.1 Setup	_		×
Choose Installation Mode			
Please select an appropriate installation mode.			
Install for:			
• Current User (JuliaPro can only be accessed by the current user.)			
O Shared Drive (Place JuliaPro on a Shared Drive where multiple users components.)	can acce	ess all inst	talled
\bigcirc All Users (Requires Admin privileges. Julia Pro can be accessed by all computer.)	user acc	counts on	this
Nullsoft Install System v3.02.1	>	Can	ncel

- Current User (No Admin Privileges Required): With this installation option, the selected directory into which JuliaPro is installed must be a directory for which the current user has read/write privileges. The default directory chosen is within the "AppData" directory of the current user's account.
- Shared Drive (No Admin Privileges Required): With this installation option, the selected directory into which JuliaPro is installed can be a shared network drive location for which the current user has read/write privileges. While the default directory chosen is within the "AppData" directory of the current user's account, this option is useful when the current user intends to install Julia Professional to a shared location, but does not have administrative privileges.

Once you select the mode of installation, you will be presented with JuliaTeam configuration page

8	JuliaPro 1.0.2.1 Setup	
-	am package server URL package server URL through which JuliaPro will download ries	80 80
JuliaTeam, if you're u	iis URL is applicable only if your company / organization is using unsure about the package server URL; then you don't need to (the text box below, default entry will work even if you're not us	change
https://pkg.juliacon	nputing.com/	
Nullsoft Install System v	/3.02.1	Cancel

This page is applicable only for JuliaTeam customers, if you're an individual or your company or organization is not using JuliaTeam, then you can click on "Next" and continue with the installation. The installer will configure JuliaPro with default package server https://pkg.juliacomputing.com/. You can download (Or update) packages and registries from this server even if you're not a JuliaTeam customer.

If your organization is using JuliaTeam, then you can configure JuliaPro to work with your private package server (JuliaTeam enables you to create private package server) by changing the URL in the text box. Once you enter your private JuliaTeam package server URL in the text box and click on "Next", the installer will configure JuliaPro to download all the packages and registries from your private JuliaTeam server.

Once you're done with your JuliaTeam configuration, you will be presented with options related to: which components of the JuliaPro distribution you would like to install.

😫 JuliaPro 1.0.1.1 Setup		- 🗆	×
Choose Components			
-			
Choose which features of Julia	Pro 1.0.1.1 you want to install.		
Check the components you war install. Click Next to continue.	nt to install and uncheck the comp	onents you don't want to	
		Description	
Select components to install:	Julia	Position your mouse	
	JuliaPro Packages	over a component to	
	Juno for JuliaPro	see its description.	
	Start Menu Shortcuts	soo to ooscriptorii	
	Desktop Shortcuts		
	Associate .jl files with Juli:		
Space required: 1.6 GB			
Space required. 1.0 OD	< >		
Nullsoft Install System v3.02.1 —			
Nulisore tristali system (5,02,1			
	< Back	Next > Cano	el

The first listed component is the Julia compiler, runtime and terminal application. This component is required for installation.

The next listed component is the set of all "JuliaPro packages" to be installed as part of JuliaPro. This component is also required for installation.

The next listed component includes "Juno for JuliaPro". Selection of this component will install a copy of the Atom editor onto which various JuliaPro specific enhancements are continually being added.

The subsequent component is the entry for "Start Menu Icons". By unselecting this entry, no entries for JuliaPro will be added to the Windows Start Menu.

The subsequent component is the entry for "Desktop Shortcuts". By unselecting this entry, no desktop shortcut icons linking to various JuliaPro components are created.

The final component is the entry for "Associate .jl files with JuliaPro". By unselecting this entry, ".jl" will no longer be associated with JuliaPro.

Upon selecting your desired components, click "Next" to proceed.

JuliaPro 1.0.1.1 Setup: Installation Folder	_		\times
Choose Install Location			
Choose the folder in which JuliaPro will be installed			
Choose the folder in which JuliaPro will be installed			
Setup will install JuliaPro 1.0.1.1 in the following folder. To install in a dif Browse and select another folder. Click Install to start the installation.	ferent fo	lder, click	:
Browse and select another folder. Click Install to start the installation.			
Destination Folder			
	-		
C:\JuliaPro-1.0.1.1\	Brow	se	
Space required: 1.6 GB			
Space available: 103.7 GB			
Nullsoft Install System v3.02.1			
< Back Inst	all	Cano	el
< Dack Inst		Cano	.CI

Next, select the folder into which you wish to install JuliaPro. The selection must be a directory into which the current user has read/write privileges. The installer provides an appropriate default location when either the "All Users", "Current User" options were selected.

If the "Shared Drive" option was selected by a non-Administrative user, or an Administrative user selects the "All Users" option, then you will likely wish to click the "Browse..." button in order to select a shared network drive location into which to install JuliaPro. Installing JuliaPro to a shared network drive location is useful for teams that plan to share access to a single Julia Professional installation among multiple user accounts on separate machines in the same Active Directory domain.

The following screenshot shows the JuliaPro installer during its installation phase.

🗱 JuliaPro 1.0.1.1 Setup		—		\times
Installing				
Please wait while JuliaPro 1.0.1.1 is being inst	alled.			
Extract: libspqr.dll				
Show details				
Nullsoft Install System v3.02.1				
	< Back	Close	Can	cel

Upon completion of the installer, press close to exit the installer.

🗱 JuliaPro 1.0.1.1 Setup	_		\times
Installation Complete Setup was completed successfully.			•••
Completed			
Show details			
Nullsoft Install System v3.02.1	k Close	Can	icel

NOTE: Setting access permissions on your JuliaPro installation for shared installations.

For shared network drive installations, if the directory into which JuliaPro was installed is currently accessible by multiple users, then an Administrator may desire to set access permissions for their JuliaPro installation to be read-only for non-Administrative users.

By setting the JuliaPro installation to be read-only, only administrative users will be able to perform operations via Julia's built-in Pkg package manager. Operations such as Pkg.add, Pkg.update, and Pkg.rm can only be performed by users with write access to the pkgs-1.0.5-2 directory of the Julia Professional installation.

Restricting write access to these directories to a single administrative user will ensure a consistent state of packages for all users of a shared installation.

To prevent unnecessary precompilation of Julia packages from being triggered by separate users, all users accessing a shared drive installation of JuliaPro from a mapped network drive must have the shared drive mapped to the same network drive letter and absolute path.

NOTE: Copying of Atom Configuration Information on First Launch of Juno.

For shared network drive installation, the first time a user launches Juno from their client machine, a .atom configuration folder will be copied from the Julia Professional installation into the directory %HOMEDRIVE%\%HOMEPATH%\JuliaPro_Juno_1.0.5-2. This directory stores user specific configration information for use of Juno for JuliaPro.

4. Using JuliaPro

4.1 Launching JuliaPro

If the Desktop Shortcuts components were selected during installation of the JuliaPro, then you should have a JuliaPro icon on your desktop. Double-Click on the icon to start IDE.



If the Start Menu Shortcuts components were selected during the installation process, then you should have also an entry for the JuliaPro Command Prompt located under "Start -> JuliaPro -> Juno for JuliaPro 1.0.5-2"

Upon initially launching Juno, you will be presented with the following window.



4.1 Getting Started with JuliaPro

Naming convention for different layout (Panes) in Juno IDE can be seen below



You can start Julia by pressing enter in "Julia REPL" pane



By default, JuliaPro will download all the packages from pkg.juliacomputing.com , this website requires authentication, hence, you will go through the authentication process the first time you perform a Pkg operation in JuliaPro, JuliaPro will download a token for you once you successfully authenticate, this token will be reused in your subsequent Pkg operations



Once you click on "here" URL link, you will be directed to authenticate by signing into either one of these accounts : LinkedIn or Gmail or GitHub account.



Once the authentication is done, you will get a message in Julia REPL saying "Token received"



Your ${\tt Pkg}$ operation should continue as is, all your subsequent ${\tt Pkg}$ operations will use the token that JuliaPro just downloaded.

5. Trademark Usage

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