

# DGFP DIGITAL ARCHIVE

Instruction for DSpace 6.4 Installation on Windows Environment











# Install DSpace v6.4 on Windows 10

### **Download Pre-requisite Software:**

- Java JDK
- Apache Maven
- Apache Ant
- Apache Tomcat
- PostgreSQL
- Dspace

**Step-1:** Download **Java jdk v8** from below link (tested with v361). (Note: If you are new to Oracle, you need to create user account otherwise you can log in to download the software). (<u>https://www.java.com/en/download/</u>)

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Windows x64		194.64 MB	🛃 jdk-8u111-windows-x64.exe
Java SE Runtim This software is license Product / File D	e Environment 8u1 d under the Oracle Binary Cor Description	11 Se License Agreement for Java SE Platform Products File Size	Download

# Step-2: Download **apache-maven-3.3.9-bin.zip** file from below link. (https://repo.maven.apache.org/maven2/org/apache/maven/apache-maven/3.3.9/)



# Step-3: Download **apache-ant-1.9.7-bin.zip** file from below link. (<u>https://archive.apache.org/dist/ant/binaries/</u>)

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### Step-4: Download **apache-tomcat-9** from below link.

(https://archive.apache.org/dist/tomcat/tomcat-9/v9.0.74/bin/apache-tomcat-9.0.74.exe)

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Step-5: Download **postgresql-9.4.26-1-windows-x64.exe** file from below link. (https://www.enterprisedb.com/downloads/postgres-postgresql-downloads)

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PostgreSQL Version	Linux x86-64	Linux x86-32	Mac OS X	Windows x86-64	Windows x86-32
12.3	N/A	N/A	Download	Download	N/A
11.8	N/A	N/A	Download	Download	N/A
10.13	Download	Download	Download	Download	Download
9.6.18	Download	Download	Download	Download	Download
9.5.22	Download	Download	Download	Download	Download
9.4.26	Download	Download	Download	Download	Download
9.3.25 (Not Supported)	Download	Download	Download	Download	Download

# Step-6: Download **dspace-6.4-src-release.zip** file from below link. (<u>https://wiki.lyrasis.org/display/DSDOC6x/</u>)



#### Step-7: Now we have downloaded all pre-requisite software.

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Step-8: Now extract all the zipped files by right click on the file and then click extract here.

#### Step-9: Now all the zipped files have been extracted.

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Step-10: Move the extracted files to your C:\ drive.

Step-11: Install **Java jdk-8u111-windows-x64.exe** by right click on the file and then click on run as administrator and then click yes if prompted.



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Step-12: Install **postgresql-9.4.26-1-windows-x64** by right click on the file and then click on run as administrator and then click yes if prompted.





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## Step-12.1: Set password for postgresql database

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Step-13: Install **apache-tomcat-9.0.74.exe** by right click on the file and then click on run as administrator and then click yes if prompted.







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Step-13.1: You can set the password or leave it as per your own choice.

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Step-14: Now we have to set the **"Environment Variables"**. First right click on my computer and then select properties.



Then select "Advanced System Settings"



Product ID: 00331-10000-00001-AA225

## Select "Environment Variables" option.

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Select "**Path**" and click on Edit button in System variables.

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#### Then click on "Edit text" option.





Add the paths in last line: C:\apache-ant-1.9.7\bin;C:\apache-maven-3.3.9\bin; C:\Program Files\Java\jdk1.8.0\_361\bin; and then click on ok.

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Select "**Path**" and click on Edit button in User variables.

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Then click on "Edit text" option.

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Add again the same paths in last line: C:\apache-ant-1.9.7\bin;C:\apache-maven-3.3.9\bin;C:\Program Files\Java\jdk1.8.0\_111\bin; and then click on ok.

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Type "JAVA\_HOME" in Variable name and give the path C:\Program Files\Java\jdk1.8.0\_361 in Variable value and click on ok.

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Again, click on "**New**" button in User variables.

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Type **"ANT\_HOME"** in Variable name and give the path **C:\apache-ant-1.9.7** in Variable value and click on ok.

System Properties	× 🕨 🕴	New item • P Den - H Select all	
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Now we have created both User variables and System variables, click on ok button.

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Click on ok button in System Properties.

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Then go to your windows search box and type "pgadmin".

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		<ul> <li>Open</li> <li>Run as administrator</li> <li>Open file location</li> <li>Pin to Start</li> <li>Pin to taskbar</li> <li>Uninstall</li> </ul>	

Check your postgresql version by going through the path: **C:\Program Files\PostgreSQL** in my case the version is 9.4, so right click on the option and select "Connect" or you can double click on the option.

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Give the password that was already set at the time of installation and click on ok button.

	SQL pane Help OK Cancel	,
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Right click on "Login Roles" and select "New Login Roles".

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Type "dspace" in Role name in properties option.



Set the password for ex: "dspace" in Definition option.

New Biller (H)	P pgAdmin III File Edit Plugins View Tools Help PostpreSQ. 9.2 (locahost:5432) PostpreSQ. 9.2 (locahost:5432) PostpreSQ. 9.4 (locahost:5432) Comparison Roles (1) Comparison Roles (1) Comparison Roles (1) PostpreSQ. 9.5 (job) (locahost:5433) PostpreSQ. 9.5 (job) (locahost:5433) PostpreSQ. 9.5 (job) (locahost:5433) PostpreSQ. 9.5 (job) (locahost:5433) PostpreSQ. 9.5 (job) (locahost:5433)	New Login Role      Properties Definition Role privileges Role memb Password Password (agan)      Account expires6/13/2020      Connection Limit	rahip Variables Se(+)
	Retrieving details on login roles Done.	Help	OK Cancel

Select all the options in Role privileges and click on ok.

9 X6850 (2)	P pgAdmin III      File Edit Plugins View Tools Help     Properties Definition Role      Properties Definition Role privileges      Chan login      Servers (3)     ProstgreSQL 9.2 (localhost: 5432)      ProstgreSQL 9.4 (localhost: 5432)	Role membership Variables Se
	Databases (1)     Tablepaces (2)     Group Roles (0)     Optores     DostgresQL 9.5 (x86) (localhost:543:	hadups >
	нер	OK Cancel

Then right click on "Databases" and select "New Database" option.

Resyste the Shortest	
New Joseph	Image: server (1)       -       -       ×         Image: server (1)
	Postgresky, s., upcannett:>42,0       Impostgresky       postgresky       default administrative connection database         Impostgresky       Refresh       Impostgresky       Refresh       Impostgresky       Refresh         Impostgresky       Refresh       Impostgresky       Refresh       Impostgresky       Refresh         Impostgresky       Refresh       Impostgresky       Refresh       Impostgresky       Impostgresky         Impostgresky       Reports       Impostgresky       Impostgresky       Impostgresky       Impostgresky         Impostgresky       SQL pane       Impostgresky       Impostgresky       Impostgresky       Impostgresky         Impostgresky       Impostgresky       Impostgresky       Impostgresky       Impostgresky         Impostgresky       Impostgresky       Impostgresky       Impostgresky       Impostgresky         Impostgresky       Impostgresky       Impostgresky       Imp
	c     Retrieving details on databases Done.     0.00 secs

Type "dspace" in Name box and choose dspace in Owner drop down option.



In Definition option choose "**pg\_default**" from Tablespace drop down option and click on ok button.

Resyster Bla	nicologi Shorton			
		Pie Edit Plugins View Tools Help Colect browser Server Groups Server Groups PostgreSQ, 9.2 (ocahost:5432) PostgreSQ, 9.4 (ocahost:5432) Databases (1) PostgreSQ, 9.4 (ocahost:5432) PostgreSQ, 9.4 (ocahost:5432) PostgreSQ, 9.5 (x86) (ocahost:5433) PostgreSQ, 9.5 (x86) (ocahost:5433) PostgreSQ, 9.5 (x86) (ocahost:5433) PostgreSQ, 9.5 (x86) (ocahost:5433) PostgreSQ, 9.5 (x86) (ocahost:5433)	New Database  Properties Definition Variables Privileges Security Labels SQL Encoding UTF8 Template Tablespace pg_default Collation Character type Connection Limit Help OK	X Y Y Y Y Y X Cancel
		C Settieving details on databases Done.		> 0.00 secs
# P	Type here to search	) # 🗎 🛅 💼	🔞 🛷 🚯	^ 9

Then go to Database-dspace-Extensions. Right click on Extensions and select "**New Extension**".



Select "pgcrypto" from the drop down option.

	The Pe- Silence		New E     Properties	Extension	×
ewitelets (8)		🌳 pgAdmin III File Edit Plugins View Tools	Name OID	pgrypto	
		Coject Jovacer Server Groups Server (3) PostgreSQL 9.4 (locahost:543 Postg	Comment Use Slony		×
		Logn Roles (2) dispace Postgre5QL 9.5 (x86) (localhoi	Help		OK Cancel
		Retrieving details on extensions Done.			0.00 secs

In Definition option choose "**public**" in schema drop down option and select the version and then click on ok.

Recycle Sin Recycle Sin Recy Sin Recy New Gliffer (9)	Pro Pro Sch File Edit Plugins View Tools	New Extension perties Definition SQL mema public sion 1.1	×	- X
	Ciper troiser Server Groups Server (3) PostgresCQ. 9.2 (locahost:543 PostgresCQ. 9.4 (locahost:543 Databases (2) Catalogs	Help	OK Cancel	×
9. Tune here to search	< >> Retrieving details on extensions Done.		0.0	) secs

Create a folder naming "**dspace**" in C:\ drive.

to Quick Copy Paste	Cut Copy path Paste shortcut Copy path Paste shortcut Copy path Paste shortcut Copy path Copy to Copy to Copy to Copy Copy Copy Copy Copy Copy Copy Cop	name New folder New	item • access • Properties Open • • History Open	Select all Select none Invert selection Select
🔿 👻 🛧 🏪 > This P	C > Local Disk (C:)			
	Name	Date modified	Type Size	
Pariton	apache-ant-1.9.7	4/9/2016 8:38 AM	File folder	
	apache-maven-3.3.9	11/10/2015 11:44	File folder	
Downloads #	dspace-6.3-src-release	6/26/2018 7:34 PM	File folder	
🔁 Documents 🖪	lintel	5/9/2020 3:33 AM	File folder	
Networks 🖉	Program Files	6/12/2020 1:13 AM	File folder	
Dspace Screenshot	Program Files (x86)	6/11/2020 12:21 AM	File folder	
Payment Bill	temp	4/25/2020 5:09 PM	File folder	
PO Scanned Conies	Users	5/9/2020 3:40 AM	File folder	
For scanned copies	usr	5/31/2020 12:22 AM	File folder	
Screenshots	Windows	6/11/2020 2:35 AM	Filefolder	
OneDrive	dspace	6/13/2020 4:12 PM	File folder	
This 0.0				

Go to your windows search box and type "**cmd**" for Command Prompt and select run as administrator to open command prompt with administrator privilage.

Resyde that The Second				
New of All Apps Documents Web Best match Command Prompt App	More 🕶		<i>₽</i>	
Search the web	> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Command Prompt App Onen tun as administrator Open file location Pin to Start Pin to Start		

Type command "**java -version**" for checking the status of java version and then following by "**ant - version**"



Type cd C:\dspace-6.4-src-release\dspace to change the directory.

<b>Q</b>						
esyste Bin	This PC Shortour	Administrator: Command Prompt		 -	×	
1995		Microsoft Windows [Version 10.0.18362.900] (c) 2019 Microsoft Corporation. All rights reserved.			^	
		C:\WINDOWS\system32>cd C:\dspace-6.3-src-release\dspac	e			
					100	

Now we must install maven package for dspace. To do that type **mvn package** and press enter key.

0		
Resysle Bin	This Be	🚾 Administrator: Command Prompt - 🗆 🗙
	Shereer	Microsoft Windows [Version 10.0.18362.900]
100		C:\WINDOWS\system32>cd C:\dspace-6.3-src-release\dspace
Nec/feider (8)	1	C:\dspace-6.3-src-release\dspace>mvn package
۹ 🗄	Type her	re to search O 🖽 🤮 🚍 🔒 🚖 📦 🛷 🕸 📼

It may take long time depending upon your internet speed.



Now the build process is successful.



Then we need to install ant package for dspace. To do that first change the directory from cd C:\dspace6.4src-release\dspace to cd C:\dspace-6.4-src-release\dspace\target\dspace-installer and press enter key.

ale olla	Units BC -	Administrator: Command Prompt	-	
_	Sharteet	[KARNING] The following patterns were never triggered in this artifact excl o 'org.glassfish.hk2.external:bean-validator:jar:*'	lusion f	ilter:
(ORE)		[INFO] Copying files to C:\dspace-6.3-src-release\dspace\target\dspace-inst [INFO] [INFO] Reactor Summary:	taller	
3)		[IWFO]       SUCCESS       [0]:19         [INFO]       DSpace Addon Modules       SUCCESS       [0]:14         [INFO]       DSpace Kennel :: Additions and Local Customizations       SUCCESS       [0]:24         [INFO]       DSpace XML-UI (Manakin) :: Local Customizations       SUCCESS       [0]:24         [INFO]       DSpace XML-UI (Manakin) :: Local Customizations       SUCCESS       [0]:24         [INFO]       DSpace SP-UI :: Local Customizations       SUCCESS       [0]:26         [INFO]       DSpace RDF :: Local Customizations       SUCCESS       [0]:26         [INFO]       DSpace SNORD :: Local Customizations       SUCCESS       [2]:66         [INFO]       DSpace SOLR :: Local Customizations       SUCCESS       [2]:66         [INFO]       DSpace SOLR :: Local Customizations       SUCCESS       [4]:77         [INFO]       DSpace Sole Sole Coll customizations       SUCCESS       [4]:77         [INFO]       DSpace Assembly and Configuration       SUCCESS       [4]:77         [INFO]       Build Success       [4]:71       [4]:76         [INFO]       Final Memory: 94W/263M       [1]:647:42+05:30       [1]:16         [INFO]       Final Memory: 94W/263M       [1]:16:47:42+05:30       [1]:17	min] min] min] min] 39 s] 57 s] min] 79 s] min]	
		C:\dspace-6.3-src-release\dspace>cd C:\dspace-6.3-src-release\dspace\target ler	t\dspace	-instal
		C:\dspace-6.3-src-release\dspace\target\dspace-installer>		

Type ant fresh\_install and press enter key.

Stoked       [WARNING] The following patterns were never triggered in this artifact exclusion filter:         o       'org.glassfish.hk2.external:bean-validator:jar:*'         [INFO]       Copying files to C:\dspace-6.3-src-release\dspace\target\dspace-installer         [INFO]       Reactor Summary:         [INFO]       Reactor Summary:         [INFO]       DSpace Addon Modules         [INFO]       DSpace Kernel :: Additions and Local Customizations       SUCCESS [01:19 min]         [INFO]       DSpace Kernel :: Additions and Local Customizations       SUCCESS [01:226 min]         [INFO]       DSpace Kernel :: Local Customizations       SUCCESS [01:226 min]         [INFO]       DSpace SNORD :: Local Customizations       SUCCESS [02:26 min]         [INFO]       DSpace SNORD :: Local Customizations       SUCCESS [02:26 min]         [INFO]       DSpace SNORD :: Local Customizations       SUCCESS [22:609 s]         [INFO]       DSpace SNORD :: Local Customizations       SUCCESS [01:59 min]         [INFO]       DSpace SolR :: Local Customizations       SUCCESS [01:17 min]         [INFO]       DSpace SolR :: Local Customizations       SUCCESS [02:17 min]         [INFO]       DSpace SolR :: Local Customizations       SUCCESS [02:17 min]         [INFO]       DSpace Addet : 2020-06-13T16:47:42+05:30       [INFO] <tr< th=""><th>Alater (9)</th><th>neueus</th><th><pre>[WARNING] The following patterns were never triggered in this artifact exclusion filter:</pre></th></tr<>	Alater (9)	neueus	<pre>[WARNING] The following patterns were never triggered in this artifact exclusion filter:</pre>
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Now the build process is successful.

Gethol	Identify       [echo]         The DSpace code has been installed.       [echo]         [echo]       To complete installation, you should do the following:         [echo]       [echo]         [echo]       [dspace/bin/dspace create-administrator         [echo]       [dscho]         [echo]       [dtp://localhost:8080/xmlui         [echo]       [echo]         [echo]       [echo]         [echo]       [echo]	300 00	SRC .	Administrator: Command Prompt	-	×
<pre>ietho To complete installation, you should do the following:</pre>	Ietho       To complete installation, you should do the following:         Ietho       * Setup your Web servlet container (e.g. Tomcat) to look for your         Ietho       OSpace web applications in: /dspace/webapps/         Ietho       OR, copy any web applications from /dspace/webapps/ to         Ietho       (e.g. 'SCATALTNA_HOME/webapps' for Tomcat)         Ietho       the appropriate place for your servlet container.         Ietho       (e.g. 'SCATALTNA_HOME/webapps' for Tomcat)         Ietho       initialize the database on the first startup.         Ietho       initialize the database on the first startup.         Ietho       /dspace/bin/dspace create-administrator         Ietho       /dspace/bin/dspace create-administrator         Ietho       http:/localhost:8080/xmlui         Ietho       http:/localhost:8080/xmlui         Ietho       etho         BUILD SUCCESSFUL       Total time: 3 minutes 24 seconds         C:\dspace-6.3-src-release\dspace\target\dspace-installer>       V		543-01	[echo] [echo] The DSpace code has been installed. [echo]	******	^
G <pre></pre>	<pre>G</pre>			<pre>[echo] To complete installation, you should do the following: [echo]</pre>		
<pre>[echo] [ech</pre>	<pre>[echo] OR, copy any web applications from /dspace/webapps/ to [echo] the appropriate place for your servlet container. [echo] [echo] [echo] [echo] * Start up your servlet container (e.g. Tomcat). DSpace now will [echo] [echo] * Make an initial administrator account (an e-person) in DSpace: [echo] [echo] /dspace/bin/dspace create-administrator [echo] [echo] You should then be able to access your DSpace's 'home page': [echo] [echo] * Sturtury/localhost:8080/xmlui [echo] [echo] [echo] * SuccESSFUL Total time: 3 minutes 24 seconds C:\dspace-6.3-src-release\dspace\target\dspace-installer&gt;</pre>	80		<pre>[echo] * Setup your Web servlet container (e.g. Tomcat) to look for [echo] DSpace web applications in: /dspace/webapps/</pre>	your	
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NA AUSUAL PEDE SESTE ELPERASE AUSUAL PELAUSUAL PELAUSUAL PELA	Cr (Uspace-Uspace) (Uspace) (Uspace-Installer /			Total time: 3 minutes 24 seconds		

Now change the directory from cd C:\dspace-6.4-src-release\dspace\target\dspaceinstaller to cd c:\dspace\bin to create administrator in Dspace and then press enter key.



Type **dspace create-administrator** and press enter key. Give the details: E-mail address / First name / Last name / Password / and after finished type y and press enter key.

And Promiting Course	n Command Prompt
[echo] [echo] [echo] [echo] [echo] [echo] [echo] [echo] [echo] [echo] SUILD SUCCESS Total time: S	* Make an initial administrator account (an e-person) in DSp /dspace/bin/dspace create-administrator You should then be able to access your DSpace's 'home page': http://localhost:8080/xmlui FUL minutes 24 seconds
Incar crimes 2	minutes 24 Seconds
C:\dspace-6.3 C:\dspace\bin Using DSpace Creating an i E-mail addres First name: S Last name: Na Password will Password: Again to conf Is the above Administrator	B-src-release\dspace\target\dspace-installer>cd C:\dspace\bin installation in: C:\dspace initial administrator account ss: subratnanda32@gmail.com Subrat anda I not display on screen. Firm: data correct? (y or n): y account created

Then copy jspui, xmlui and solr folders from C:\dspace\webapps to C:\Program Files\Apache Software Foundation\Tomcat 9.0\webapps



Now run the tomcat server. Go to windows search box, type tomcat and select "**Configure Tomcat**".



Click on start button.

Resyle tim the stere	
(2)	Anache Tomcat 9.0 Tomcat 9 Properties
	General       Log On       Logging       Java       Startup       Shutdown         Service Name:       Tomcat9         Display name:       [contexts/10 romcats/)       Description:       Apache Tomcat 9.0.0.M13 Server - http://tomcat.apas         Path to executable:       "Ci Virogram Files Upache Software Foundation/Tomcat 9.0/bin/Tomcat9.
	Startup type: Manual  Service Status: Stopped Start Stop Pause Restart
	OK Cancel Apply

Now type the **http://localhost:8080/xmlui** on the address bar of your web browser for xmlui interface and login with your credential

D OSpace Home	× 🥹 New Tab × +		- 0 )
← → ♂ @	0 C localhost 8080/vmhul/	🖂 🕁	in 🖸 🏵 😁
	DSpace Repository	Login	
	DSpace Home		
	Communities in DSpace	Search DSpace	
	Select a community to browse its collections.	Go	
		Advanced Search	
		Browse	
		All of OSpace Communities, & Collections By Issue Date Authors Iténs Sufrecta	
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