Managing Source Code on CropForge

A guide to begin using the CropForge collaborative software development site for source code management

IRRI

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1. Introduction

CropForge (<u>http://cropforge.org</u>) is a web-based collaborative software development platform based on the GForge system (<u>http://gforge.org</u>). CropForge hosts software development projects that provide functionalities similar to SourceForge (<u>http://sourceforge.net</u>). This manual addresses the initial setup and procedures that are required for contributing source code to a project's source code repository.

Most projects on CropForge are open and the functionalities are also available to non-registered users. If you only want to view the communication that is going on in a project (mailing list, discussion forum, tracker) or if you want to download released software or inspect the source code, you do not have to register on CropForge or become a team member in one of the projects.

If you want to contribute to the communication in a project (mailing list, discussion forum, tracker), you should get an account on CropForge, and, depending on the type of contributions, you may also want to become a team member of the project.

You only need to install CVS/SVN and SSH client software and use authentication keys if you are a developer in a project and need to contribute source code to a project's source code repository.

2. Creating an account on CropForge

Users can create their own account on CropForge by following the link **New Account** in the upper-right corner of the CropForge home page.



The account creation page has mandatory fields to be filled in, that is, Login Name, Password, First Name, Last Name, and email address. The Login Name must be a single word in lowercase letters.

۲	CropFo	rge: Us	er Acc	ount Regist	tration - I	Mozilla I	irefo	2			
Eile	e <u>E</u> dit	View	Go	<u>B</u> ookmarks	<u>Y</u> ahoo!	Tools	Help				12
٢:	É			Foi	•ge			Software/Group 💌	Search	Logir New Account	
			H	lome				My Page		Project Tree	
		vord (I	min. 6	not use u 5 chars):* t):*		e lette	rs):*				
	First M Last M Langu Englis Timez GMT	Name: Nage C sh one:	*								
		ult The	me		•						•

Select your appropriate time zone and country. It is recommended that you use the default language choice (English) and theme. The system has not been tested with other languages and themes and may not behave as intended if other options are selected. You must enter a working email address since it will be authenticated as part of the account creation process.

😢 CropForge: User Account Registration - Mozilla Firefox	<u>_ ×</u>
Ele Edit View Go Bookmarks Yahoo! Tools Help	
Theme Default Theme Country: UNITED STATES © Email Address:* This email address will be verified before account activation. You will receive a mail forward account at <loginname@users.cropforge.org> that will forward to this address.</loginname@users.cropforge.org>	-
Address: Address: Phone:	
FAX: Receive Email about Site Updates (Very low traffic and includes security notices. Highly Recommended.)	
□ Receive additional community mailings. (Low traffic.) Fields marked with * are mandatory.	
Register [Resend confirmation email to a pending account]	Ţ

You may leave the non-mandatory fields empty since their content will not be used by the system. After completing the form, click on the **Register** button.

A confirmation email will be sent to your email account. This email will contain a link to a page that will ask for your user name and password, thereby completing your registration on CropForge.

🕲 CropForge	: Verify - N	1ozilla Firefo	x				_ _ _ ×
<u>File E</u> dit <u>V</u>	iew <u>G</u> o	<u>B</u> ookmarks	<u>Y</u> ahoo!	<u>T</u> ools	Help		
িক্ষু 🕻		For	·ge		Software/Group 💌	Search	Login New Account
	Но	ome			My Page	Projec	t Tree
In order	to comp	lete your	registra	tion, l	ogin now. Your account will the	en be activated for nor	mal logins.
Login na							
					Managed by IRENI International Rice Research Institute Powered by GForge		

You are now logged into the system. You can follow the link **Account Maintenance** to change the information that you have supplied during the account creation, for example, password, email address.

🙂 c	ropFor	ge: We	come	to CropFor	ge - Mozi	lla Fire	fox			
Eile	<u>E</u> dit	<u>V</u> iew	<u>G</u> o	<u>B</u> ookmarks	<u>Y</u> ahoo!	<u>T</u> ools	Help			$\langle \rangle$
	É			Foi	•ge		Software/Group		Search	Logout My Account
			Но	ome			My Page	Y	Proj	iect Tree
	My Pe	rsona	al Pa	ge Diar	y & Not	:es /	Account Maintenance	Register P	roject	
•	rou ar	e nov	/are	egistered	user on	CropF	orge, the online developr	ment enviror	ment for Oper	n Source projects.
	the pr	oject	mess				e fully in the activities or for software in CropForge			
E	Enjoy	the si	te, a	nd please	provide	us wi	th feedback on ways tha	at we can im	prove CropFor	ge.
	-the	CropF	orge	staff.						
	Managed by									
	ID D T									
							International Rice Research Insti	itute		
							Powered by GForge			

Select the tab **Project Tree** in order to get to a register of the projects hosted on CropForge. Projects are grouped into categories, with the major categories being the Generation Challenge Programme (GCP) and the International Crop Information System (ICIS).

The project **CropForge** contains training materials on using the CropForge system, including this manual.

😻 CropForge: Software Map - Mozilla Firefox		l ×
<u>File Edit View Go B</u> ookmarks <u>Y</u> ahoo! <u>T</u> ools <u>H</u> elp	lp	$\langle \rangle$
S CropForge 🛛 🖻	Software/Group 🔽 Search Logout My Account	
Home	My Page Project Tree	
 Category Bioinformatics (4 projects) CropForge (1 projects) Data Management (8 projects) GCP - Generation Challenge Program (22 pr Germinate (3 projects) ICIS - International Crop Information System Statistics (6 projects) 	Operating System	
0 projects in result set.		
	Managed by	
Inte	ternational Rice Research Institute	•

Use the **Logout** and **Login** links in the upper-right corner when you want to leave or enter the system as a registered user.

3. Becoming a team member of a project on CropForge

If you want to become a team member in an existing project on CropForge, you need to contact the project administrator and request to join.



Above is a screen shot of the home page of the **GCP Middleware** project. In the right-hand column, you can see a list with the project administrator(s) and the project team member(s). There is also a link **Request to join**, which will take you to a page with a request form to be filled out and submitted. The project administrator(s) will receive an email with your request. It is up to the project administrator to accept or deny your request.



Depending on your activities in the project, the project administrator will give you a set of permissions (or roles). The default roles are Administrator, Senior Developer, Junior Developer, Documentation Writer, Support Technician, and Project User. To submit source code to a project's source code repository, you must be a developer or an administrator in that project.

4. Creating a new project on CropForge

New project registration is not an automatic process. Approval from the CropForge site administrators is needed. CropForge is not a general hosting facility, but has been established to host projects that are part of the Generation Challenge Programme (GCP-<u>http://generationcp.org</u>), the International Crop Information System (ICIS-<u>http://www.icis.cgiar.org</u>), the CGIAR (<u>http://www.cgiar.org</u>), or otherwise related to crop research.

If you would like to establish a new project, you are recommended to get in touch with one of the site administrators (Guy Davenport, CIMMYT; Richard Bruskiewich, IRRI; Reinhard Simon, CIP; Thomas Metz, IRRI) to discuss your needs.

Instead of creating a new project, you may want to join an existing project and upload your source code as a new module in that project. The formal project request is made through a form that can be reached after login from your personal home page, using the **MyPage** tab. Follow the link **Register Project**, and supply the required information.

CropForge: Personal Page For: tmetzuser - Nozilla Firefox							
ile <u>E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>Y</u> ahoo! <u>T</u> ools	Help						
委 Crop Forge	Software/Gro	up 🔽	Search	Logout My Account			
Home	My I	Page	Project Tree				
My Personal Page Diary & Notes A	ccount Maintena	nce Register Proj	ect				
Your personal page contains lists of bug member of.	s and tasks that y	ou are assigned, plus	a list of groups that you a	ire a			
My Assigned Items			My Tasks				
You have no open tracker items ass	igned to you.	You have no open	tasks assigned to you.				
My Submitted Items			Quick Survey				
You have no open tracker items sub	mitted by you.	Survey not found.					
Monitored Forums		My Bookmarks					
You are not monitoring any forums.		You currently do n	ot have any bookmarks	saved.			
If you monitor forums, you will be sent form of an email, with a link to the new		You're not a mem	My Projects ber of any active project	s			
You can monitor forums by clicking "Mo any given discussion forum.	nitor Forum" in						
Monitored FileModule	25						
You are not monitoring any files.							
If you monitor files, you will be sent ne via email, with a link to the new file on server.							
You can monitor files by visiting a proje Page" and clicking on the check box in							
Priority Colors: 1 2 3 4 5							

• Project full name

This is a descriptive name of your project with a 40-character limit. It can be changed at a later stage. Please note the project naming conventions for the GCP and the ICIS project.

• Project Purpose and Summarization

Use the same text as for the Project Public Description below.

• License

This is a descriptive name of your project with a 40-character limit. It can be changed at a later stage. Please note the project naming conventions for the GCP and ICIS projects.

• Project Public Description

This is a descriptive name of your project with a 40-character limit. It can be changed at a later stage. Please note the project naming conventions for the GCP and ICIS projects.

• Project Unix Name

The project needs a name that serves as a user name on the CropForge server. Such a Unix name has several restrictions:

- It cannot be the same as the Unix name of another project
- o Length must be between 3 and 15 characters
- It must be in lowercase
- It must consist only of characters, numbers, and dashes
- It must be a valid Unix username

Note: The Unix Project name cannot be changed at a later stage.

• SCM

This option allows you to use either the CVS or SVN source control system.

Note: Once the project has been created, the source control system cannot be changed.

After submitting the project request, a site administrator needs to approve the project, and a mail notification is sent to the user.

5. Installing CVS/SVN client software on your computer

This section deals only with client software under the MS Windows operating system. A number of different clients are available, but we focus on those that are currently used by CropForge users. A number of projects, mainly those for stand-alone clients, use CVS as their source management system. Java programmers generally prefer to use the SVN system, since it allows easier refactoring of the source code.

5.1. TortoiseCVS

TortoiseCVS is a free CVS client for Windows that can be downloaded from <u>http://www.tortoisecvs.org/</u> Stable (for deployment) - TortoiseCVS-1.8.26.exe - 5.84 MB - 15th May 2006.

If you have an older version of TortoiseCVS installed, you should remove it first, before installing the later version. Just double-click the installer and follow the default settings. You will have to reboot your PC to complete the setup. It doesn't function as a separate program but as an extension to the Windows Explorer that can be accessed by right-clicking.



5.2. Subclipse

If you are using Eclipse as your development environment, you can install Subclipse (<u>http://subclipse.tigris.org/</u>). It is an Eclipse plug-in that adds Subversion (SVN) integration to the Eclipse IDE. Subclipse is downloaded, installed, and updated from within Eclipse.

The following installation description is taken from the Subclipse web site (<u>http://subclipse.tigris.org/install.html</u>). The screenshots are taken using Eclipse SDK version 3.1.2.

Step 1:

Begin the installation from the Eclipse **Help** menu item.



<u>Step 2:</u>

This screenshot shows the Install/Update screen as it initially comes up. In this case, you will need to change the radio button to indicate that this is a new install.



<u>Step 3:</u>

This screen will vary depending on the features you have installed already. You may want to click on the **New Remote Site** button. If you are behind a proxy and the Eclipse install mechanism does not work, then you can download a zipped version of the update site and then click the **New Local Site** button instead.

🖨 Install	X
Update sites to visit Select update sites to visit while looking for new features.	
Sites to include in search:	
Eclipse.org update site	New Remote Site
	New <u>L</u> ocal Site
	New Archived Site
	Edit
	Remove
	Kennove
	Import sites
	Export sites
☑ Ignore features not applicable to this environment	
Seck Mext >	Einish Cancel

<u>Step 4:</u>

This screen is showing the New Remote Site dialog, filled in with the correct information to install Subclipse.

```
Name: Subclipse
URL: http://subclipse.tigris.org/update_1.0.x
```

🖶 New Update Site 🛛 🗙							
Name:	Subclipse						
URL:	http://subclipse.tigris.org/update_1.0.x						
	OK Cancel						

<u>Step 5:</u>

When you first come back to this screen, the site you added will NOT be selected. Be sure to select it before clicking **Finish**.

🖨 Install			X
Update sites to visit Select update sites to visit while looking for new featu	ures.		
Sites to include in search:			
Eclipse.org update site			[New Remote Site] New Local Site New Archived Site
			Edit <u>R</u> emove <u>Import sites</u> Export sites
,	ıt		
	< <u>B</u> ack	Next >	<u>Einish</u> Cancel

<u>Step 6:</u>

This next screen shows all of the features that are available to install.

€ Updates	
Search Results Select features to install from the search result list.	
Select the features to install:	
	Deselect All
È-☑ 000 Subclipse	More Info
	Properties
	Select Required
	Error Details
Eclipse Install/Update site for Subclipse 1 of 1 selected. Show the latest version of a feature only Filger features included in other features on the list	
< <u>B</u> ack Next > Einish	Cancel

<u>Step 7:</u> Click the radio button to accept the license agreement.



<u>Step 8:</u>

Confirm the install location, then click Finish.



<u>Step 9:</u>

There is an Eclipse preference to turn off this next dialog. Neither Eclipse.org nor IBM sign their features. Simply click **Install All** to proceed.

Verification			
	c ation are about to install an unsigned feature. e to install the feature or cancel its installation.		
	ot been digitally signed. s feature cannot be verified.		
Feature name:	Subclipse		
Feature Identifier:	org.tigris.subversion.subclipse_1.0.3		
Provider:	tigris.org		
File Identifier:	org.tigris.subversion.subclipse_1.0.3		
		Install Insta	II <u>A</u> II

<u>Step 10:</u>

Just a screenshot of the in-process installation.

Update Manager
Downloading:
plugins/org.tigris.subversion.subclipse.core_1.0.3.jar (47K of 1213K bytes)
Run in Background Cancel Details >>

Step 11:

Eclipse needs to be restarted after installing Subclipse.



Step 12:

Finally, after restarting Eclipse, the first thing you will typically want to do is open the Subclipse Repository perspective via the **Windows->Open Perspective->Other...** menu, where you can define your repositories. Be sure to also check the online help as well as the Subclipse preferences located under **Team -> SVN**.



6. Installing the PuTTY SSH client on your computer

An SSH client is needed to provide secure communication between the client and the server.

PuTTY (<u>http://www.chiark.greenend.org.uk/~sgtatham/putty/</u>) is a free Telnet/SSH client with the following components:

- PuTTY (Telnet and SSH client)
- Plink (command-line interface to the PuTTY back-ends)
- Pageant (SSH authentication agent for PuTTY, PSCP, and Plink)
- PuTTYgen (RSA and DSA key generator)

Download the .ZIP package for Intel x86 and extract it to the sub-directory **c:\putty**.



🖻 putty 📃 🗌 🗙					
<u>File E</u> dit <u>V</u> iew F	<u>a</u> vorites <u>T</u> oo	ls <u>H</u> elp	🥂		
🕞 Back 🔹 🕥 🗸	🤌 🔎 s	earch 😥 Folders	🕼 🏂 🗙 🧐 👘 »		
Address 🗁 C:\putty			💌 🄁 Go		
Name 🔺	Size	Туре	Date Modified		
private.ppk	1 KB	PPK File	2005-06-29 3:43 PM		
public.ppk	1 KB	PPK File	2005-06-29 3:42 PM		
PAGEANT.EXE	124 KB	Application	2005-04-05 8:42 PM		
PLINK.EXE	256 KB	Application	2005-04-05 8:42 PM		
PSCP.EXE	268 KB	Application	2005-04-05 8:43 PM		
PSFTP.EXE	276 KB	Application	2005-04-05 8:43 PM		
DUTTY.CNT	29 KB	CNT File	2005-04-05 8:45 PM		
PUTTY.EXE	412 KB	Application	2005-04-05 8:43 PM		
OPUTTY.HLP	574 KB	Help File	2005-04-05 8:45 PM		
PUTTYGEN.EXE	160 KB	Application	2005-04-05 8:43 PM		
PUTTY.GID	108 KB	GID File	2006-03-16 10:53 AM		

A help manual (PUTTY.HLP) is available as part of the extracted PuTTY software.

Help Topics: PuTTY User Manual	? X
Contents Index Find	
	1
Click a topic, and then click Display. Or click another tab, such as Index.	
? Title page	
Chapter 1: Introduction to PuTTY	-
Schapter 2: Getting started with PuTTY	
Chapter 3: Using PuTTY	
🔖 Chapter 4: Configuring PuTTY	
Chapter 5: Using PSCP to transfer files securely	
Chapter 6: Using PSFTP to transfer files securely	
Chapter 7: Using the command-line connection tool Plink	
Chapter 8: Using public keys for SSH authentication	
Chapter 9: Using Pageant for authentication	
🐦 Chapter 10: Common error messages	
🔷 🔷 📚 Appendix A: PuTTY FAQ	
Appendix B: Feedback and bug reporting	
🔷 🔷 Appendix C: PuTTY Licence	
🔷 Appendix D: PuTTY hacking guide	-
	_
Display Print Ca	ancel

7. Generating authentication keys with PuTTY

You will need to generate a pair of authentication/encryption keys, which will be used to communicate with the CropForge server. The private key will remain on your computer and the public key needs to be uploaded to the CropForge server.

🚞 putty						
<u>File E</u> dit <u>V</u> iew F	Eile Edit View Favorites Tools Help					
🕞 Back 🔹 💮 👻	🧆 🔎 s	iearch 😥 Folders	🗟 🏂 🗙 🦷			
Address 🗁 C:\putty			💌 🄁 Go			
Name 🔺	Size	Туре	Date Modified			
PAGEANT.EXE	124 KB	Application	2004-10-26 6:32 PM			
PLINK.EXE	240 KB	Application	2004-10-26 6:32 PM			
🖬 private.ppk	1 KB	PPK File	2005-06-29 3:43 PM			
PSCP.EXE	256 KB	Application	2004-10-26 6:32 PM			
PSFTP.EXE	256 KB	Application	2004-10-26 6:32 PM			
🖬 public.ppk	1 KB	PPK File	2005-06-29 3:42 PM			
DUTTY.CNT	26 KB	CNT File	2004-10-26 6:38 PM			
Putty.exe	372 KB	Application	2005-01-04 11:39 AM			
DUTTY.GID	76 KB	GID File	2005-01-04 2:46 PM			
OPUTTY.HLP	484 KB	Help File	2004-10-26 6:38 PM			
PUTTYGEN.EXE	156 KB	Application	2004-10-26 6:33 PM			

The program PUTTYGEN.EXE is a key generator. Select **SSH2 DSA** as type of key and click on the **Generate** button.

PuTTY Key Generator		?
Elle Key Con <u>v</u> ersions <u>H</u> elp Key No key.		
Actions Generate a public/private key pair		Generate
Load an existing private key file		Load
Save the generated key	Save p <u>u</u> blic key	<u>S</u> ave private key
Parameters		
Type of key to generate: O SSH <u>1</u> (RSA) O SSH2 <u>R</u> SA	• <u>ss</u>	H2 DSA
Number of <u>b</u> its in a generated key:		1024

As part of the key generating process, the mouse needs to be moved over the blank area in order to generate some randomness.

PuTTY	Key Generat	or		?
File Key	Conversions	Help		
Key —				
Please	generate some	randomness by moving	the mouse over the	blank area.
Actions				
Genera	ate a public/priv	ate key pair		<u>G</u> enerate
Load a	n existing privat	e kev file		Load
Save th	he generated ke	ey	Save pyblic key	<u>S</u> ave private key
Parame	ters			
Type of	f key to generat	e:		
Ö SS	H <u>1</u> (RSA)	C SSH2 <u>B</u> SA	. O	SSH2DSA
Numbe	r of <u>b</u> its in a ger	nerated key:		1024

Once the keys have been generated, save the private key into the **c:\putty** directory using the **Save private key** button. You can specify a passphrase for the private key. The passphrase secures your private key on computers that are shared. If you use a passphrase, you have to supply it every time you load your private key.

PuTTY Key General			?
e <u>K</u> ey Con <u>v</u> ersions	<u>H</u> elp		
Key			
Public key for pasting i	nto OpenSSH authorize	d_keys file:	
HvcTIEQ390NC1Qhb m9MmBfcMK+gVggpr	AAACBAI0L4hl/ur02d/y tagoMzynE7zoYsSHzyA QA9MQJO2pOW6jMIvx EvsjyabwUsIkGQAAAIB	B81we/X/15ubohKzY0 tCUlyAQdIv7TpZnfTdg	G7D0AkClGwwRq
Key fingerprint:	ssh-dss 1024 99:48:ce	:b1:62:f7:4d:3e:c0:10:	d5:30:2f:be:c8:e4
Key <u>c</u> omment:	dsa-key-20060316		
Key p <u>a</u> ssphrase:			
Confirm passphrase:			
Actions			
Generate a public/priv	ate key pair		<u>G</u> enerate
Load an existing privat	e key file		<u>L</u> oad
Save the generated ke	эу	Save p <u>u</u> blic key	<u>S</u> ave private key
Parameters			
Type of key to general C SSH1 (RSA)	e: O SSH2 <u>R</u> SA	⊙ ss	H2 <u>D</u> SA
Number of bits in a ger	-		1024

From the public key box, copy and paste the public key into the NotePad editor.

PuTTY Key Genera	ator		?
le <u>K</u> ey Con <u>v</u> ersion:	s <u>H</u> elp		
Key			
Public key for pasting	; into OpenSSH authorize	ed_keys file:	
ssh-dss			
MDebyHeGA75Pbp	1AAACBAlywRTtqv1Q4p JDjoDsWjwvUkNPp34aB	EiNrRCDTNH61c3wrAJ0	Dwtu0Wfk4ZP/Y
Ku0Clw2vjZ9YTaAc	P 1G295UCARk/COyFk(XUdHSKTD2RK4Ggl8w/	GV/bPZI1bPb2K30zDD	0I+7X9kU6ehvAA
,			
Key fingerprint:	ssh-dss 1024 21:a0:2	c:dc:66:e7:e9:53:a0:1b:	3c:bc:ba:a1:2c:d8
Key <u>c</u> omment:	dsa-key-20060829		
Key p <u>a</u> ssphrase:			
Confirm passphrase:			
• •	,		
Actions			
Generate a public/pr	ivate key pair		<u>G</u> enerate
Load an existing priva	ate key file		Load
Save the generated		Save public key	Save private key
Save the generated	(cy		
Parameters			
Type of key to gener			
SSH- <u>1</u> (RSA)	C SSH-2 <u>R</u> S	A 🌻 SSI	H-2 <u>D</u> SA
Number of <u>b</u> its in a g	enerated key:		1024

Edit the public key so that the entire key appears on a single line. Save the public key in **c:\putty**.



8. Uploading your public key to CropForge

The public key as generated and formatted in the previous section needs to be uploaded to the CropForge Server.

Login to CropForge, select the **My Page** tab, and follow the **Account Maintenance** link.

🕱 Crop	Forge	Software/Group	Search	Logout My Account
Home	My Page	Project Tree	Code Snippets	Project Openings
My Personal Page	Diary & Notes Account Main	itenance Register Proje	ct	
		Account Maintenance		
Welcome Thomas	Metz.			
	veloper Profile			
 Edit My Skil 				
Member since:	2005-01-10 16:28			
User Id:	103			
Login Name:	tmetz			
First Name:	[Change Password]			
	Thomas			
Last Name:	Metz			
Language:	English 🗨			
Timezone:	Asia/Manila 💌			
Theme:	Default Theme			
Country:	PHILIPPINES	•		
Email Addr:	tmetz@cgiar.org	_		
A d d	[Change Email Addr]			
Address:	IRRI			
Address:				
Phone:				

In the upper part of the form, you can change the user information that you have supplied during the account creation process. Most important are your password and your email address.

The lower part of the form contains a box with **Shell Account Information**. Follow the **Edit Keys** link.

Language.	English					
Timezone:	Asia/Manila					
Theme:	Default Theme					
Country:	PHILIPPINES 🗸					
Email Addr:	t.metz@cgiar.org [Change Email Addr]					
Address:	IRRI					
Address:						
Phone:						
FAX:						
Title:						
	Preferences					
Receive Er	mail about Site Updates (Very low traffic and includes security notices. Highly Recommended.)					
🗖 Receive ad	dditional community mailings. (Low traffic.)					
	e in peer ratings. (Allows you to rate other users using several criteria as well as to be rated by information is available on your user page if you have chosen to partecipate in ratings).					
	Shell Account Information					
Shell box: SSH Shared A	Shell box: SSH Shared Authorized Keys: 1 [Edit Keys]					
	Update Reset Changes					

Copy and paste the formatted public key into the text box and click on the **Update** button.

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My Personal Page Diar To avoid having to type y they will be placed on the immediately. Please allow To generate a public key, '~/.ssh/identity.pub' (proi further information on sh Authorized keys: Important: Make sure thei you expected. ssh-dss	y & Notes Account Main our password every time for CVS server in your ~/.ssh for a one hour delay. run the program 'ssh-keyo cocole 1) and '~/.ssh/id_ds aring keys.	tenance Register Project or your CVS/SSH developer /authorized_keys file. This i gen' (you can use both prot a.pub' or '~/.ssh/id_rsa.pub between keys. After submitti	account, you may upload y s done by a cron job, so it ocol 1 or 2). The public key ' (protocole 2). Read the s	our public key(s) here and may not happen will be placed at sh documentation for
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9. Manual loading of the private authentication key

It is assumed that the PuTTY software is being used for authentication with the CropForge server. The default PuTTY installation should have resulted in a directory **c:\putty**. The public and private keys in the example below were saved under the names **private.ppk** and **public.ppk**.



After starting the PAGENT.EXE program (PuTTY authentication agent), a corresponding icon appears in the taskbar. Right-click on the icon, select the option **Add Key**, and select the file containing your private key. In this example, the private key is stored in the file **c:\putty\private.ppk**.



It is assumed that your public key has already been uploaded to the CropForge server. Whenever authentication between you and the CropForge server is needed, it will now be done automatically by the PAGENT software using you locally loaded private key and your public key available on the CropForge server.

10. Automatic loading of the private authentication key

To avoid the manual loading of your private key every time you login to your PC, follow these steps:

Create shortcut by right-clicking anywhere on the Desktop and enter the command **c:\putty\pageant.exe private.ppk**. Here it is assumed that PuTTY was installed in **c:\putty**, and that the private key was saved in the file **private.ppk**.





Move this shortcut to your Startup folder, which is usually located in C:\Documents and Settings\All Users\Start Menu\Programs\Startup in WindowsXP.



The shortcut will now be executed every time the computer is booted, loading the private key into memory.