USING GATE DEVELOPER FROM WINDOWS

The "GATE Developer" application has been installed on hoyo.zeetix.com, and can be run on a Windows desktop using "xming.exe" and "PuTTY". "GATE Developer" is an XII application, and therefore requires XLL support on the desktop. This XII support is provided by "xming".

With "xming" installed and running, a properly-configured "PuTTY" SSH session allows "GATE Developer" to run within an X11 window (provided by "xming") on a Windows desktop.

This document describes how to install "xming" and how to configure "PuTTY".

The example described here uses "ses@hoyo.zeetix.com". It assumes that "PuTTY" is already configured with SSH connectivity on the desktop.

• Installing "xming.exe"

"xming.exe" is a free and open-source Windows application. Use download xming to download "xming.exe" from ses.hoyo.zeetix.com.

Save the downloaded installer, and then run Xming-6-9-0-31-setup.exe from whereever it has been saved.

Unless otherwise specified, it will be installed in C:\Program Files (x86)\Xming.

• Running "xming.exe"

Once installed, "xming" is run in the usual way from either a shortcut or from the start screen.

• Configuring "PuTTY" to use "GATE Developer"

The following steps describe how to configure a saved PuTTY session so "GATE Developer" can be run on a Windows desktop. These steps are done in the "PuTTY configuration" window that opens when PuTTY is launched.

1. Top-level session configuration

A PuTTY saved session is the most convenient way to run "GATE Developer" using PuTTY and xming. This step describes how to load or save a saved session using the top level of PuTTY configuration screen.

- The top-level settings page is titled "Basic options for your PuTTY session"
- The desired session should be selected from "Saved Sessions" and loaded using the "Load" button. If a new session is created, enter its name in the entry box just above the "Saved Sessions" list and click the "Save" button.
- The "Host Name" field must contain "hoyo.zeetix.com" (without an quotes).
- The "Connection type" should be set to "SSH"

These settings are emphasized in the "Figure 1" below.

NOTE: If any changes are needed, be sure to click the "Save" button alongside the "Saved Sessions" list after making the changes.



Figure 1: Configure PuTTY session

2. Configure the "Data" setting

The next step is to configure the "Data" subsection of the "Connection" section of the left-hand navigation pane.

- Select "Connection" and then "Data" in the left-hand navigation pane.
- This settings page is titled "Data to send to the server"
- Enter "ses" (without quotes) into the "Auto-login username" field.
- Confirm that the other settings are as shown in Figure 2, below.

These changes are highlighted in Figure 2, below.

NOTE: If any changes are needed, be sure to click the "Save" button alongside the "Saved Sessions" list of the top-level session configuration page after completing the needed changes.

🛞 PuTTY Configuration		×
 PuTTY Configuration Category: Session Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Colours Semallar Proxy Solid Serial Telnet Rlogin SUPDUP 	Data to send to the server Login details Auto-login usemame When usemame is not specified: Image: Prompt O Use system usemame (Thomas) Terminal details Terminal-type string xterm Terminal speeds 38400,38400 Environment variables Variable Add Value Remove	
About	Open Cancel	

Figure 2: Configure Data section

3. Configure the "XII" setting

The third and final step is to configure the "Connection->SSH->X11" subsection of left-hand navigation pane.

- Select "Connection", then "SSH", and then "X11" in the left-hand navigation pane.
- This settings page is titled "Options controlling SSH X11 forwarding"
- If needed, click on the "Enable X11 forwarding" checkbox. It contains a check mark while enabled.
- If needed, select the "MIT-Magic-Cookie-1" radio button. It contains a black dot while selected

These changes are highlighted in Figure 3, below.

NOTE: If any changes are needed, be sure to click the "Save" button alongside the "Saved Sessions" list of the top-level session configuration page after completing the needed changes.

🕵 PuTTY Configuration	>	×
Category:		
Keyboard	Options controlling SSH X11 forwarding	
Bell	XTI forwarding	
- Window	Enable X11 forwarding	
Appearance	X display location	
Behaviour	Printe X11 authentication protocol	
Translation	MT-Magic-Cookie-1 OXDM-Authorization-1	
- Colours	X authority file for local display	
Connection	Browse	
Data		
E-SSH		
Kex		
Host keys		
Cipher		
×11		
Tunnels		
More bugs V		
About	Open Cancel	

Figure 3: Configure X11 section

• Running "GATE Developer"

"GATE Developer" is opened and run from a command line inside a running PuTTY session. An alias in the 'ses' user account allows "GATE Developer" to be run using a single command ("gateDeveloper") from the command line.

This requires that xming be installed and running (see above). It must be run from a PuTTY session configured to use X11 forwarding (see above).

The following steps show the sequence of running and then closing "GATE Developer"

1. Start a PuTTY session

Load and run the saved PuTTY session configured earlier

Figure 4 shows the resulting open PuTTY session



Figure 4: Initial PuTTY session

2. Run the gateDeveloper command

Enter "gateDeveloper" (without quotes) at the command line.

Figure 5 shows the command (highlighted) and the resulting status information that appears as "GATE Developer" is started.



Figure 5: Run the gateDeveloper command

3. The "GATE Developer" splash screen appears

Assuming that xming is running, the "GATE Developer" splash screen opens on the Windows desktop.



Figure 6: Splash screen

4. "GATE Developer" opens

After "GATE Developer" has finished initializing, the splash screen is replaced by the initial "GATE Developer" window.

The user guide for "GATE Developer" is Chapter 3 of GATE Developer user documentation.

			/
GATE Developer 9.0.1 build 5271e0			×
<u>File Options Tools H</u> elp			
🍑 🚳 🏘 🔅 🀲			
GATE	Hessages		
Applications	GATE 9.0.1 build 5271e02 started at Sun Jul 09 23:08:30 UTC 2023		
	and using Java 1.8.0_372 Red Hat, Inc. on Linux amd64 4.18.0-477.15.1.el8_8.x86_64.		
Language Resources			
- 🎇 Processing Resources			
Datastores			
•			
•			
1			
c			
	Wax Log Size (chars) 80,000 A Append To		
		_	_

Figure 7: Initial GATE Developer

5. Close "GATE Developer"

The "GATE Developer" application is closed by clicking the "Close" button at the top right of the application (a red "X").

After the "GATE Developer" application is closed, the still-open PuTTY session has returned to the normal command prompt.

The "GATE Developer" application can be restarted by repeating step 2 above.



Figure 7: PuTTY session after closing