

Installation & Integration of KENET BigBlueButton with Moodle LMS

USER GUIDE

Kenya Education Network

P.O Box 30244 00100,

Nairobi-Kenya

Copyright©KENET2022



Table of Contents

Introduction	I
BigBlueButton Plugin Download	1
Installation of BigBlueButton Plugin on Moodle LMS Platform	2
Integration of BigBlueButton plugin with KENET Web Conference Platform	6
Verification of BigBlueButton Plugin installation in Moodle	7





Introduction

Kenya Education Network KENET has a web conferencing platform running on BigBlueButton BBB and is free to all its member institutions. The platform can be integrated with Learning Management System such as Moodle to support real-time sessions with instructors, faculty and learners.

This guide is designed to help System/LMS administrators to install BigBlueButton plugin to Moodle LMS and link it to the KENET Web conference platform via a shared secret key and URL.

Getting Started

You first need to download BigBlueButton plugin.

BigBlueButton Plugin Download

1. Navigate to <u>https://moodle.org/plugins/</u> Click on **downloads** then search for **BigBlueButton** Plugin.



2. Clicking on the **BigBlueButtonBN** presents you with a new download window. Select on "**Download**"



moodle	DOCUMENTATION DOWNLOADS DEMO TRACKE	
Home ▶ Plugins ▶ Activites ▶ BigBlueButtonBN ▶ Description		
BigBlueButtonBN Activities == mod_bigbluebuttonbn	Current versions available: 8 Download	lick to Iownload
Maintained by ∰ Fred Dixon, ∰ Jesus Federico Integrate BigBlueButton within Moodle - including record and playback of sessions. ✔ Latest release: 3 weeks ♀15942 sites ▲4k downloads ♥346 fans		
Description Seversions Description Translations		
BigBlueButton is an open source web conferencing system for online learning. The goal of the project is to enable instructors to effect project supports live online classes, virtual office hours, and group collaboration with remote students.	ctively engage remote students anywhere in the world. The	
BigBlueButton supports real-time sharing of slides (including whiteboard), audio, video, chat, emojis, breakout rooms, and screen. It a	lso record all content for later playback.	
Like Moodle. BigBlueButton is open source. The BigBlueButton project was started in 2008 by Blindside Networks. In addition our wor Moodle plugin so you can fully leverage BigBlueButton's capabilities from within your Moodle site.	rk on BigBlueButton core, we created this BigBlueButtonBN	
The BigBlueButtonBN plugin enables you to:		

3. On the displayed list, **Select** the plugin that **matches your Moodle version** then click on **Download**

The plugin is downloaded as a zip file.

moodle		DOWNLOADS E	Demo tracker dev	
ome ▶ Plugins ▶ Activities ▶ BigBlueButtonBN ▶ Versions				
BigBlueButtonBN Activities = mod_bigBlueburtonEn				
intained by 📳 Fred Dixon, 🛄 Jesus Federico				
egrate BigBlueButton within Moodle - including record and playback of sessions.				
🖻 Description 🔍 Versions 🚇 Reviews 🕍 Stats 🛛 Orranslations				
urrent versions				
3.0.2 (2021101010) Moodle 3.11 Reference Saturday, September 24, 2022, 1:19 AM code precheds: 1 24	Install now Download Release notes			Click to downloa
2.4.7 (2019101014) Moodle 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 3.11 Released: Thurday, June 9, 2022, 4.03 AM code precheds. 61 83	Install now Download Release notes			
2.3.6 (2019042011) Moodle 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10 Released Thurdy, January 28, 2021, 558 AM code precheds. 6 27	Install now Download Release notes			
2.2.13 (2017101021)				

Installation of BigBlueButton Plugin on Moodle LMS Platform

1. Login to Moodle LMS and proceed to Site Administration



	E Kenet
	🔿 Dashboard
	G Site home
	🖽 Calendar
	D Private files
	Content bank
Click on Site Administration	贷 Site administration

2. Select plugins then install plugins

Site adminis	tratio	on				
					Se	 ie
Site administration	Users	Courses	Grades	Plugins	Appearance	
	Plugi	ins		<mark>Insta</mark> Plugi	<mark>ll plugins</mark> ns overview	Click to Install Plugins

3. Click to install plugin from zip file

	KENET Online Le	arning Platform				
	Dashboard Site administration	Plugins Install plugins				
	Plugin installer					
		Install plugins from the Moodle plugins directory				
	✓ Install plugin from ZIP file [®]					
Click to choose zip file	ZIP package 🕕 🔇	Choose a file				
		٩				
		You can drag and drop files				
		Accepted file types: Archive (ZIP) .zip				
	Show more					
		Install plugin from the ZIP file				
	There are required fields in this form mo	arked 🕕 .				

4. Choose the zip file from your saved files location.



	File picker		 	×
Click to choose the plugin file from your saved files location	 In Content bank In Server files In Recent files ▲ Upload o file In Private files ④ Wikimedia 	Attachment Choose File No file chosen Save as Author Admin User Choose licence ③ Licence not specified Uplood this file		•

5. Select Upload this file

File picker		×	
fn Content bank fn Server files			
f Recent files	Attachment		Confirm
🚵 Upload a file	Choose File mod_bigblue2021101010.zip		the zip file
m Private files	Save as		1
🏐 Wikimedia			
	Author		
	Admin User		
	Choose licence ⑦		
	Licence not specified	~	
	Upload this file		Click to

6. On the new window, click to Install plugin from the zip file

KENET Onli	ne Lea	rning Platform
Dashboard Site ad	dministration	Plugins Vinstall plugins
Plugin installe	ər	
		Install plugins from the Moodle plugins directory \odot
- Install plugin f	rom ZIP file	9 O
ZIP package	0	Choose a file
		mod_bigbluebuttonbn_moodle311_2021101010.zip
		Accepted file types:
		Archive (ZIP) .zip
Show more		Click to Install
		Install plugin from the ZIP file

7. Plugin Validation



This is an automated process that cross-checks if the installed plugin is compatible with the Moodle version.

If there are no errors found, you will receive the message "Validating mod_bigbluebuttonbn...OK" then you may click on Continue

	KENET Online Learning Platform
	Install plugin from ZIP file
	Validating mod_bigbluebuttonbn OK
Click to continue	Continue Cancel

8. Select Continue once again

		115.	wi nd	
	Your server environment meets all minimum requirements.			×
Click to continue	Continue	nu nul voi nul		

9. On the plugin check page, choose **upgrade moodle database now** to further continue the installation process.

	Plugins checl	<							
	This page displays plugins that may require your attention during the upgrade, such as new plugins to be installed, plugins to be upg missing plugins etc. Additional plugins are displayed if there is an available update for them. It is recommended that you check whet are more recent versions of plugins available and update their source code before continuing with this Moodle upgrade. Check for available updates Last check done on 16 October 2022, 12:36 PM								
	Cancel new installations (1)	Cancel new installations (1) Plugins requiring attention 1 All plugins 419							
	Plugin name / Directory	Current version	New version	Requires	Source / Status				
	Activity modules	Activity modules							
	BigBlueButton /mod/bigbluebuttonbn		2021101010	• Moodle 2020061500	Additional To be installed Cancel this installation				
Click to upgrade			C Rela	pad					
Moodle database			Upgrade Moodle	database now					



10. Once you upgrade, you will be guided to hit "Continue" again.

	Upgrading to new version
	mod_bigbluebuttonbn
Click to Continue	Success
	Continue

11. You will be taken to a settings page. This page will require you to share the **BigBlueButton**

Server URL and BigBlueButton Shared Secret Key.

12. Worry not, The BigBlueButton plugin in Moodle LMS may be configured for it to use the KENET BigBlueButton Servers via **BigBlueButton Server URL** and **BigBlueButton Shared Secret Key**.

Integration of BigBlueButton plugin with KENET Web Conference Platform.

1. Member institutions should formally request KENET for the BigBlueButton Server URL and BigBlueButton Shared Secret Key for their BigBlueButton plugin to work seamlessly with their Moodle LMS.

2. Once you receive the server URL and shared secret key from KENET, just fill the two required fields.

	KENET Online Learning Platform	
	The settings shown below were added during your last Moodle upgrade. Make any changes necessary to the defaults and then click the 'Save changes' button at the bottom of this page.	
Enter the	New settings - General settings	
KENET web conference	BigBlueButton Server URL bigbluebuttonbn_server_url https://sc.conference.ke/bigblueb/ Default: http://test-install.blindsidenetworks.com/bigbluebutton/	
URL	The URL of your BigBlueButton server must end with /bigbluebutton/. (This default URL is for a BigBlueButton server provided by Blindside Networks that you can use for testing.)	Insert the
	BigBlueButton Shared Secret bigbluebuttonbn_shared_secret Press enter to save changes	shared secret key
	The security salt of your BigBlueButton server. (This default salt is for a BigBlueButton server provided by Blindside Networks that you can use for testing.)	
	New settings - Default messages	
	Default welcome message bigbluebuttonbn_welcome_default	
	Default: Empty	



13. Hit "Save changes". Great! the installation is done!

	New settings - Experimental features			
	Register live sessions bigbluebuttonbn_meetingevents_enabled	🗆 Default: No		
Click to save		If enabled, live sessions will be processed after the session ends. This feature is required for Activity completion and will only work if the BigBlueButton server is capable of processing post_events scripts.		
changes	Save changes			

Verification of BigBlueButton Plugin installation in Moodle.

To verify that the plugin has been successfully installed and enabled in Moodle:

- 1. Go back to "Site Administration." And from there
- 2. Select "Plugins." Click on "Plugins preview" link.

Click on Site Administration	Site administration	Search
	Site administration Users Courses Grades Plugins	Plugins Appearance Serve Click to view Install plugins installed installed

Confirm if the plugin is available. If available, you can now allow faculty to create their virtual classes in Moodle LMS.

	ᅇ Site administration	Check for available updates					
		Last check done on 16 October 2022, 12:36 PM					
		All plugins 419 Additional plugins 2					
		Plugin name	Version	Availability	Actions		Notes
		Activity modules					
		S Assignment mod_assign	2021051700	Enabled	Settings	Uninstall	
BigBlueButton Plugin is		Assignment 2.2 (Disabled) mod_assignment	2021051700	Disabled		Uninstall	
installed and enabled	◆	BigBlueButton mod_bigbluebuttonbn	3.0.2 2021101010	Enabled	Settings	Uninstall	Additional

THE END