

CodeLab in Blackboard

CodeLab integrates seamlessly with Blackboard. For students, Codelab exercises appear as an assignment in your course (students are not taken to another website). Within Blackboard, students have access to CodeLab's navigation tools, exercises, feedback, and status information.

For instructors, CodeLab results appear automatically in the gradebook and instructors use Blackboard tools to assign work.

This manual illustrates one sequence of steps that a Blackboard administrator would follow in order to make CodeLab available for faculty and students.

To make CodeLab available, the administrator will need:

- (1) A consumer key and shared secret: obtain by emailing info@turingscraft.com
- (2) The launch url: <https://codelab.turingscraft.com/codelab/lti/launch>
- (3) If you want grade passback, it must be turned on in 'global properties'
- (4) CodeLab requires that we receive the user name and email address

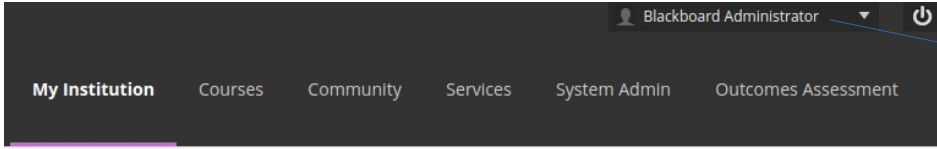
For many administrators, nothing further may need to be said. But the next few pages illustrate ONE possible path for using this information. If there are any questions, please write directly to: info@turingscraft.com.

We are very eager to support CodeLab-In-Blackboard!

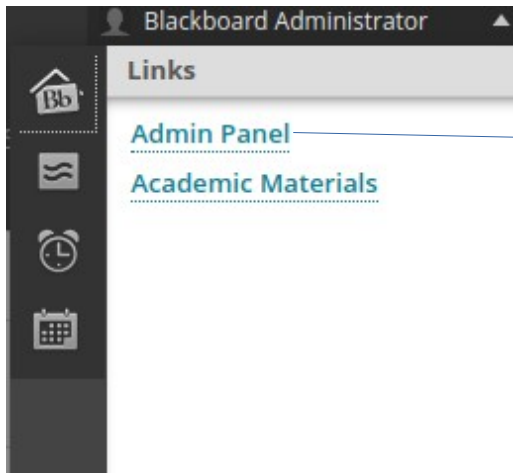
Official Blackboard documentation for LTI can be found here:

https://help.blackboard.com/Learn/Administrator/Hosting/System_Integration/LTI

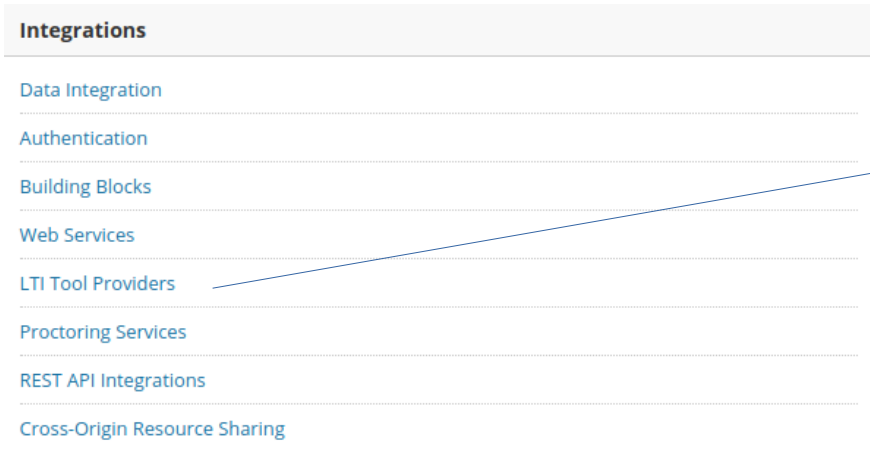
First: we have to Navigate to the “Admin Panel”



Click Here



Then click “Admin Panel”



The click
“LTI Tool Providers”

If you want CodeLab to be able to pass back grade information, we need to make sure that option is allowed in “Manage Global Properties”

LTI Tool Providers

This report is available to show all provider domains in use in the system, including the status. Domains can be approved, excluded, and deleted. Use the Register Provider Domain option to create additional LTI Tool Providers. [More Help](#)

Manage Global Properties Register Provider Domain Register LTI 1.3 Tool

TOOL/PROVIDER	TOOL TYPE	STATUS	CREDENTIALS	SENDS USER DATA	USER ACKNOWLEDGMENT PAGE
developer.blackboard.com	Provider Domain	Approved	Per Link	No	No

Click “Manage Global Properties”

FEATURE AVAILABILITY

Tool links can be enabled in one of three modes. **Allow any links** enables users building courses to add links to any LTI, not let users add links unless the provider has already been approved. Enabling the grade option will allow tool providers to post grades.

- Enabled in Courses Yes No
- Enabled in Organizations Yes No
- Creation of Tool Provider Links
- Allow links to any tool provider that isn't explicitly excluded.
 - Allow links to any tool provider, but require approval for each new provider.
 - Allow only links to approved tool providers.
- Allow configured tool providers to post grades Yes No

Select “Yes” if you want CodeLab to send grades To the gradebook.

Click Submit

Cancel Submit

Now we will approve the “codelab.turingscraft.com” domain

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Manage Global Properties Register Provider Domain Register LTI 1.3 Tool

TOOL/PROVIDER	TOOL TYPE	STATUS	CREDENTIALS	SENDS USER DATA	USER ACKNOWLEDGMENT PAGE
developer.blackboard.com	Provider Domain	Approved	Per Link	No	No

Click
“Register Provider Domain”

* Indicates a required field.

PROVIDER DOMAIN STATUS

Set the status of the provider domain. You can also provide a list of additional hostnames to share this configuration if needed.

* Provider Domain

Provider Domain Status
 Approved
 Excluded

Secondary Hostnames

Enter one hostname per line.

Enter:
“codelab.turingscraft.com”

Make sure “Approved” is selected

DEFAULT CONFIGURATION

LTI Tool Providers can request configuration per link, or can provide key and shared secret information for site-wide configuration.

Default Configuration
 Set separately for each link
 Set globally

* Tool Provider Key

* Tool Provider Secret

Tool Provider Custom Parameters

Enter any custom parameters required by the tool provider. Parameters must each be on their own line and be

Select “Set globally”

Enter the key and secret provided
To you by CodeLab.
If you do not have a key and secret
Please contact:
info@turingscraft.com

INSTITUTION POLICIES

Choose whether you want to override the institution policies for this specific tool provider domain.

Send User Data

- Never
- Send user data only over SSL
- Send user data over any connection

User Fields to Send

- Role in Course
- Name
- Email Address

Allow Membership Service Access

- Yes No

Show User Acknowledgment Message

You can edit the user acknowledgment message when Membership Service is disabled.

- Yes No

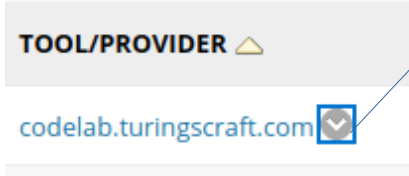
Select:
“Send user data only over SSL”

Click the User Fields:
Role, Name, and Email Address

Click “Submit”

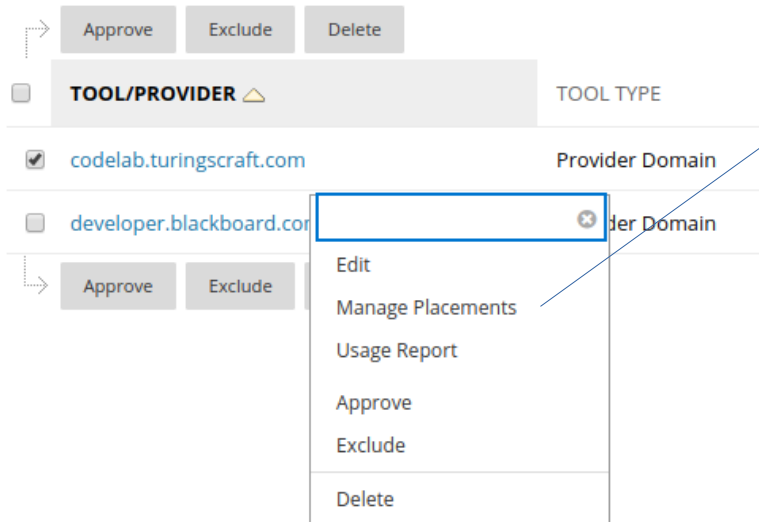
Cancel

Submit



Back in the LTI Tool Provider configuration screen
You should see “codelab.turingscraft.com”

Hover over it and click the arrow



Then click
“Manage Placements”

Manage Placements: codelab.turingscraft.com
Create, Edit, or Delete a Tool Provider Placement. Deleting a Tool Provider Place

Create Placement

Click:
“Create Placement”

* Indicates a required field.

PLACEMENT INFORMATION

* Label

CodeLab

The label that shows up in the course

Description



* Handle

CodeLab

Uniquely identifies the placement

* Availability

Yes No

Make placement available to course builders and instructors

Type

Placement Type determines where this tool appears in Blackboard Learn. The tool

Course tool

Student

Non-student

Course content tool

Supports deep linking

Allows grading

System tool

Administrator tool

Enter:
"CodeLab"

Select:
"Course content tool"

Click:
"Allows grading"

TOOL PROVIDER INFORMATION

Enter the Tool Provider Information. The Tool Provider URL must be located on one of the configured host names.

* Tool Provider URL

<https://codelab.turingscraft.com/codelab/lti/launch>

This field may change when B2 upgrades occur.

Enter:
<https://codelab.turingscraft.com/codelab/lti/launch>

Cancel

Submit

Click "Submit"

CodeLab can now be easily added to a course by instructors!