



Resources / LTI & LMS Integration

Canvas Admin Deployment Guide

Set up Play With ASL as an LTI 1.3 tool in Canvas Cloud. Written for root-account administrators, with a short hand-off for the first teacher.

Overview

Welcome. This guide walks a Canvas root-account administrator through registering Play With ASL: School Edition as an LTI 1.3 tool, then hands off to a teacher for the first assignment. Plan on one sitting for the admin half; the teacher half takes a few minutes.

Play With ASL is certified for 1EdTech LTI Advantage Complete (LTI 1.3 Core, Deep Linking 2.0, Assignment and Grade Services 2.0, Names and Role Provisioning Services 2.0). You can confirm the listing at <https://site.imsglobal.org/certifications/playwithasl>.

Registration is a short manual process: you create an LTI Developer Key, paste our JSON, turn the key on, and install it **By Client ID**. Play With ASL is not an Instructure partner, so there is no global key to inherit and Dynamic Registration is not part of this path.

This guide covers **Canvas Cloud production**. Canvas Cloud uses one shared issuer for every school, so the values that identify your school are the Client ID and Deployment ID; you will send those to us at the end. The details are under [OIDC, JWKS, and redirect URLs](#).

Related: [Trust & Accessibility](#) · [School Edition](#) · [Brightspace admin guide](#)

Prerequisites

- A **Canvas root-account Admin** account. Developer Keys live on the root account, so this part needs an admin rather than a teacher.
- A sandbox or practice course for the first placement. Keep real rosters and live gradebooks out of it until you have seen the Curriculum Wizard open.
- A few minutes at the end to send us three values: Client ID, Deployment ID, and iss, plus your Canvas hostname. [Institution-specific values](#) shows where each one comes from.
- The registration method is **Enter JSON**, then **By Client ID**. Skip Manual Entry; everything Canvas needs is in the JSON. (If you also run Brightspace, this is a different flow from its “Register Tool.”)

Register the Tool

1. Sign in as a root-account Admin.
2. Go to **Admin → Developer Keys → + Developer Key → + LTI Key**.
3. Choose **Enter JSON** and paste the [JSON from the next section](#). Leave Selection Width and Selection Height exactly as they arrive: **1280** and **900**.
4. Save the key, then switch its state to **ON**.
5. Confirm `assignment_selection` and `link_selection` both show **1280 × 900**.
6. Hard-refresh with the cache disabled. Canvas caches `launch_definitions` for ten minutes (`max-age=600`), and a stale copy keeps the old window size.
7. In the account or your practice course, go to **Settings → Apps → + App**, choose **By Client ID**, paste the numeric Developer Key id, and install.
8. Copy the **Client ID** (the same Developer Key id) and the **Deployment ID** from the installed app.

9. Send us the Client ID, Deployment ID, and iss, plus your Canvas hostname, through [Contact](#) or support@playwithasl.com. We register your school on our side and confirm by email; launches start working once that registration is in place.

Paste JSON

Paste this file unchanged when you create the LTI Developer Key. It already points at our production endpoints on api.playwithasl.com. [Download the JSON file](#).

```
{
  "title": "Play With ASL",
  "description": "Teach With ASL / Play With ASL School Edition LTI 1.3 Advantage",
  "oidc_initiation_url": "https://api.playwithasl.com/lti/login",
  "target_link_uri": "https://api.playwithasl.com/lti/launch",
  "public_jwk_url": "https://api.playwithasl.com/api/lti/jwks",
  "scopes": [
    "https://purl.imsglobal.org/spec/lti-ags/scope/lineitem",
    "https://purl.imsglobal.org/spec/lti-ags/scope/lineitem.readonly",
    "https://purl.imsglobal.org/spec/lti-ags/scope/score",
    "https://purl.imsglobal.org/spec/lti-ags/scope/result.readonly",
    "https://purl.imsglobal.org/spec/lti-nrps/scope/contextmembership.readonly"
  ],
  "extensions": [
    {
      "domain": "api.playwithasl.com",
      "tool_id": "play-with-asl",
      "platform": "canvas.instructure.com",
      "privacy_level": "public",
      "settings": {
        "text": "Play With ASL",
        "selection_height": 900,
        "selection_width": 1280,
        "placements": [
          {
            "placement": "assignment_selection",
            "message_type": "LtiDeepLinkingRequest",
            "text": "Play With ASL",
            "target_link_uri": "https://api.playwithasl.com/lti/launch",
            "selection_height": 900,
            "selection_width": 1280
          },
          {
            "placement": "link_selection",
```

```

    "message_type": "LtiDeepLinkingRequest",
    "text": "Play With ASL",
    "target_link_uri": "https://api.playwithasl.com/lti/launch",
    "selection_height": 900,
    "selection_width": 1280
  },
  {
    "placement": "course_navigation",
    "message_type": "LtiResourceLinkRequest",
    "text": "Play With ASL",
    "target_link_uri": "https://api.playwithasl.com/lti/launch",
    "selection_height": 800,
    "selection_width": 1000
  }
]
}
],
"custom_fields": {
  "canvas_api_domain": "$Canvas.api.domain"
}
}

```

Keep 1280 × 900. The JSON sets `selection_width` **1280** and `selection_height` **900** on `assignment_selection`, `link_selection`, and the tool settings. If those fields end up empty, Canvas falls back to **800 × 400** and the Find window opens too small to show any packs. `course_navigation` in the same JSON is a separate 1000 × 800 link for the course menu; the Curriculum Wizard comes from the assignment placements, so teachers should use Find rather than Course Navigation when placing content.

Install By Client ID

Once the key is ON, install it from **+ App** and choose **By Client ID**. The Client ID is all Canvas needs here.

Add App

Configuration Type

- ✓ Manual Entry
- By URL
- Paste XML
- By Client ID
- By LTI 2 Registration URL

In + App, open Configuration Type and choose **By Client ID**.

External Apps

Configuration Type

By Client ID

Client ID

To obtain a client ID, an account admin will need to generate an LTI developer key.

Cancel Submit

Paste the numeric Developer Key id into Client ID. Canvas reminds you that an account admin generates the key; that is the key you just turned on.

The screenshot shows the Canvas LMS interface for a course named 'PWA-LAB-1'. The left sidebar contains navigation links: Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, and Settings. The main content area is titled 'External Apps' and includes a '+ App' button. Below the title, there is a description of external apps and a link to 'See some LTI tools that work great with Canvas'. A table lists the installed external app 'Play With ASL'. The right sidebar shows 'Course Statistics' and a list of course management actions: Course Calendar, Conclude this Course, Import Course Content, Export Course Content, and Validate Links in Content. Below these are 'Current Users' statistics: Students (5), Teachers (1), TAs (None), Designers (None), and Observers (None).

Done: Play With ASL appears under Course Settings → Apps.

Basic Tool Information

For reference, this is what the JSON registers. Nothing here needs to be typed by hand.

Tool name	Play With ASL
Description	Teach With ASL / Play With ASL School Edition LTI 1.3 Advantage tool
Domain	<code>api.playwithasl.com</code>
Privacy	Public (set in the JSON)
Placements	assignment_selection and link_selection open the Curriculum Wizard (Deep Linking, 1280 × 900). course_navigation is a separate 1000 × 800 course-menu link.

Services

Assignment and Grade Services (line item, score, result) and Names and Role Provisioning (context membership), matching the JSON scopes

OIDC, JWKS, and redirect URLs

These are the production endpoints the JSON already contains. Deep Linking uses the same target link URI with message type `LtiDeepLinkingRequest`, so there is one redirect to register.

OIDC login initiation	<code>https: // api.playwithasl.com / lti / login</code>
Target link URI / redirect	<code>https: // api.playwithasl.com / lti / launch</code>
Keyset URL (JWKS)	<code>https: // api.playwithasl.com / api / lti / jwks</code>
Domain	<code>api.playwithasl.com</code>

Canvas Cloud production uses the platform values below. You do not paste these anywhere; we keep them on our side. Two things worth knowing: `iss` is the shared `https://canvas.instructure.com` for every Cloud school, and the OIDC authorize, token, and JWKS endpoints live on `sso.canvaslms.com` rather than on your school's hostname.

<code>iss</code>	<code>https: // canvas.instructure.com</code>
OIDC authorize	<code>https: // sso.canvaslms.com / api / lti / authorize_redirect</code>
Token	<code>https: // sso.canvaslms.com / login / oauth2 / token</code>

Platform JWKS

```
https://sso.canvaslms.com/api/lti/security/jwks
```

Canvas beta and test environments use different `iss` and `sso` hosts and are outside this guide.

Institution-specific values

Canvas generates the Client ID and Deployment ID when you create and install the key; copy them straight from Canvas. We match your launches on Client ID, Deployment ID, and `iss` together. Your hostname helps us label your account, but it is not the `iss`; that stays `https://canvas.instructure.com`.

Client ID	The numeric Developer Key id, copied from Canvas
Deployment ID	Shown on the installed app after the By Client ID step
iss	<code>https://canvas.instructure.com</code>
Hostname	Your school's Canvas address, for example something.instructure.com. Send it along for our records; the iss above is what Canvas uses for sign-in.

Leave out passwords, launch JWTs, and student emails. We never need them.

Teachers: Add the First Assignment

Once we confirm your registration, a **teacher** takes it from here. This is the part that proves the setup end to end, so have a teacher do it rather than the admin.

1. Open the course, go to **Assignments**, and add an assignment.

2. Set Submission Type to **External Tool**.

3. Click **Find**.

4. Choose **Play With ASL**.

5. The Curriculum Wizard opens inside **Link Resource from External Tool**. (Behind the scenes, that is Canvas sending an `LtiDeepLinkingRequest` on `assignment_selection`.)

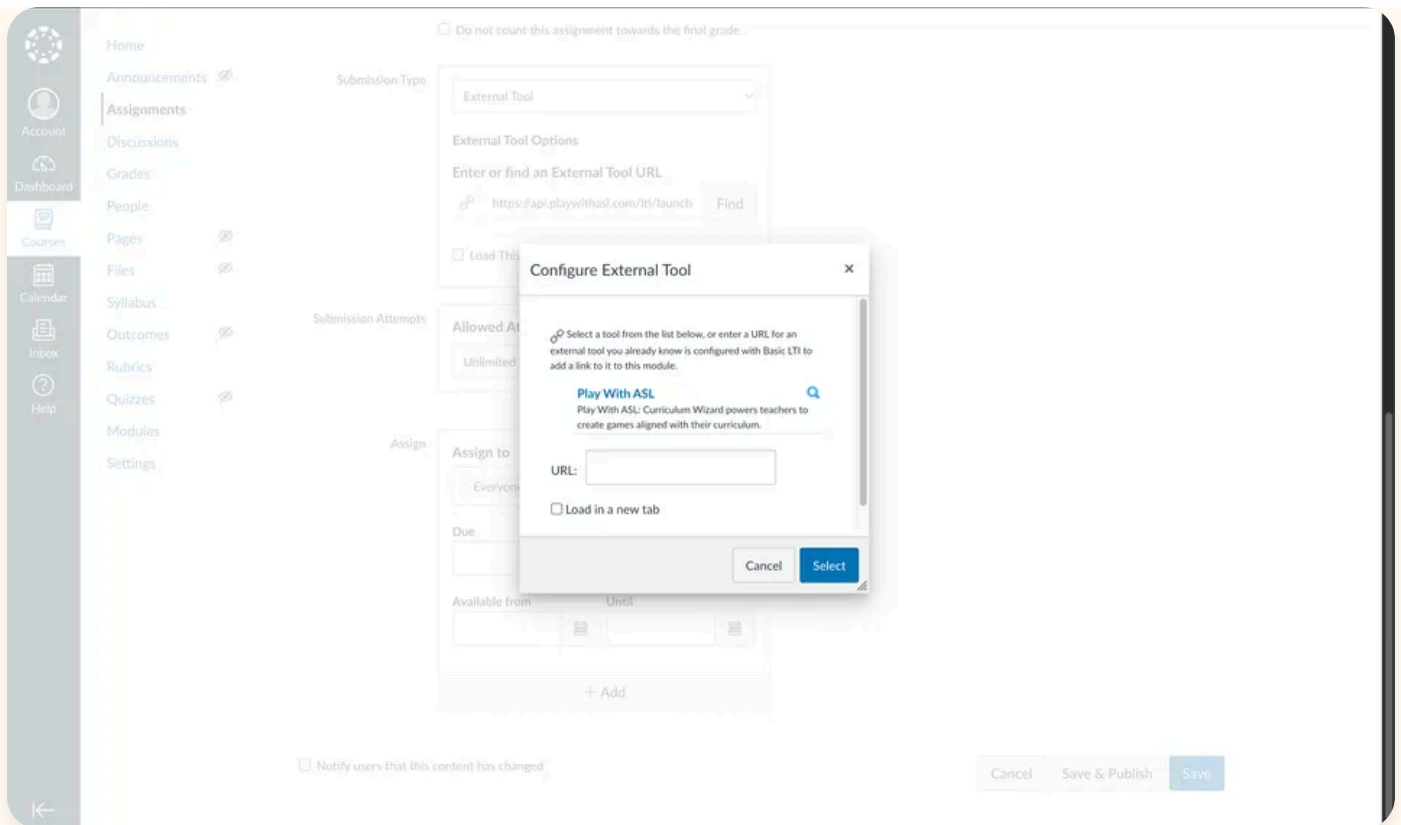
6. Pick a pack and click **Add to Course**.

7. Save the assignment.

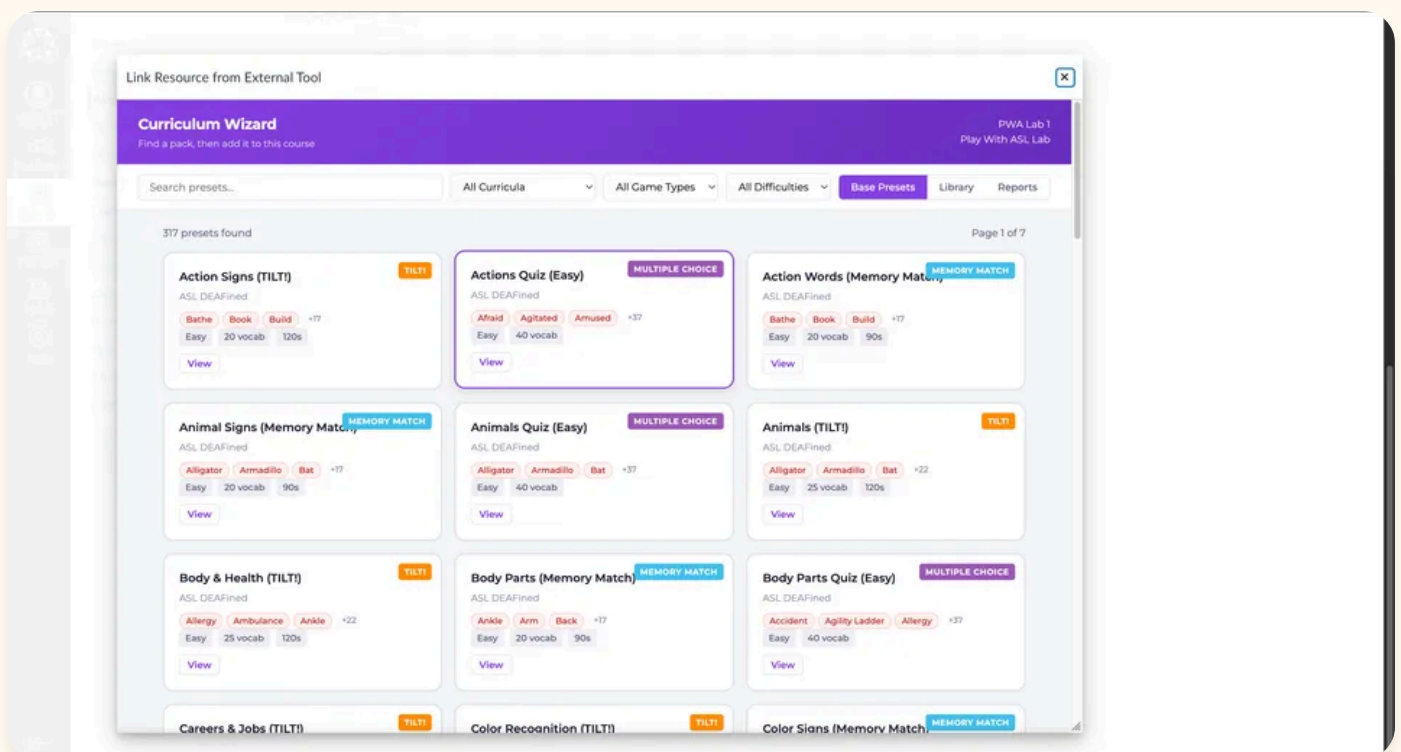
Use Find rather than the Course Navigation link; the wizard lives behind the assignment placements. An admin opening the tool from the account is a handy sanity check, but the teacher placement is the one that counts.

The screenshot shows the 'Assign' form in the Canvas LMS interface. On the left is a dark sidebar with navigation links: Home, Account, Dashboard, Courses, Calendar, Inbox, and Help. The main content area has a top navigation bar with Home, Announcements, Assignments (selected), Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, and Settings. The 'Assign' form is titled 'Do not count this assignment towards the final grade' (unchecked). It has three main sections: 'Submission Type' with a dropdown set to 'External Tool'; 'External Tool Options' with a field 'Enter or find an External Tool URL' containing 'https://api.playwithasl.com/lti/launch' and a 'Find' button, and an unchecked checkbox 'Load This Tool In A New Tab'; and 'Submission Attempts' with a dropdown set to 'Unlimited'. Below these is the 'Assign' section with 'Assign to' set to 'Everyone', a 'Due' date field, and 'Available from' and 'Until' date fields. At the bottom of the form is a '+ Add' button. At the very bottom of the page are three buttons: 'Cancel', 'Save & Publish', and 'Save'.

Submission Type set to External Tool. The URL field shows our production launch address; Find is where you pick a pack.



In the Find dialog, choose Play With ASL.



The Curriculum Wizard inside Find, with 317 presets and their cards showing. This is the Deep Link placement.

The screenshot shows the Canvas LMS interface for a course named 'PWA-LAB-1'. The 'Assignments' page is active, displaying the details for an assignment titled 'CT1 Find smoke 2026-09-24'. The assignment is currently unpublished, as indicated by the 'Not Published' status in the top right. The content area contains the text 'Play With ASL - Action Signs (TILT!)'. The points are set to 100, and the assignment group is 'Assignments'. The interface includes a sidebar with navigation links for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, and Settings. The top navigation bar shows the course name and the assignment title.

A pack placed as an assignment (Action Signs: TILT!), still unpublished, which is where you want it for a first run.

The screenshot shows the Canvas LMS interface for the 'Assignments' index of the course 'PWA-LAB-1'. The index lists several assignment groups: 'Assignments', 'Unit 1', 'Unit 2', 'Individual Practice', and 'Group Practice'. The 'Unit 1' group contains a published assignment titled 'Grade Passback Test' with a green checkmark indicating it is published. The other groups show 'No assignments in this group'. The interface includes a sidebar with navigation links for Home, Announcements, Assignments, Discussions, Grades, People, Pages, Files, Syllabus, Outcomes, Rubrics, Quizzes, Modules, and Settings. The top navigation bar shows the course name and the assignment title.

The Assignments index after publishing. Students will find the assignment here; their launch is a separate step, covered below.

Check It Worked

Three things tell you the setup is good:

- Find opens the Curriculum Wizard and you can see pack cards. If the window is small and empty, see the first row under Troubleshooting.
- The teacher can place one pack, and the assignment's URL is the production launch address on `api.playwithasl.com`.
- A student opening the assignment is a later, separate check. The wizard check above needs neither grade passback nor students in the course yet.

Your school's first teacher placement is the real confirmation for your Canvas Cloud tenant; our own test environment does not stand in for it. Please let us know how it goes, either way.

Troubleshooting

Find modal is tiny and shows no cards

Selection width and height ended up empty, so Canvas used its **800 × 400** default. Re-paste the JSON (or set **1280 × 900** on `assignment_selection` and `link_selection`), save, then hard-refresh with the cache disabled. Canvas holds the old size for up to ten minutes (`max-age=600`).

Launch 400 `UNKNOWN_PLATFORM`

The hostname reached us as `iss`. Cloud production `iss` is `https://canvas.instructure.com`; send us the corrected value and we will update your registration.

Launch 400 `AMBIGUOUS_PLATFORM`

Every Cloud school shares one `iss`, so we match launches on Client ID. Check that the Client ID you sent matches the installed key; we will never guess between schools.

Blank iframe	A framing restriction. Production allows <code>https://*.instructure.com</code> and <code>https://*.canvaslms.com</code> . If your school uses a vanity host such as <code>canvas.school.edu</code> , contact us and we will add it before Find will render there.
Authorize URL points at the school host	Cloud OIDC, token, and JWKS endpoints are on <code>sso.canvaslms.com</code> , not on <code>https://<school>.instructure.com/...</code> . If a checklist suggests the school host, use the <code>sso</code> values above.
Grades do not appear	Grade passback happens on a later student launch, not at the Find step. Nothing is wrong if the wizard check shows no grades yet.
Third-party cookie warnings	OIDC state travels on the redirect, so a third-party cookie warning on its own does not mean the registration failed. If the wizard opened, you are fine.

Support

We are glad to help. Reach us through <https://www.playwithasl.com/contact> or support@playwithasl.com. Including these up front saves a round trip:

- Canvas hostname
- Client ID
- Deployment ID
- `iss`
- Course name
- What you expected and what happened (an error code or screenshot helps)

Please leave out passwords and launch JWTs.

Thanks for bringing Play With ASL to your campus. Once your registration is confirmed, your teachers can go straight to [Teachers: Add the First Assignment](#).

[Download this guide \(PDF\)](#).

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