**Tools:** A computer with windows system Xvast browser Moodle DRM-X 4.0 account

Steps:

## 1. Install Moodle and configure your website.

Download the latest Moodle installation package from its official website, unzip it and upload it into your server. Follow the prompts to modify configuration and complete the installation including the establishment of Moodle database. So you must have your own server and database. The demonstration below uses Apache and MySQL constructed in local PC. There are many tutorials about Moodle installation online, so we won't do more introduction here.



<ul> <li>Dashboard</li> <li>Site home</li> <li>Calendar</li> </ul>	test web Dashboard / Site administration / Courses / Manage courses and categories / Add a new course
Private files	
🖻 My courses	Add a new course
🞓 music	▼ General
r code	Cou () () rse course example
✤ Site administration	Cou ()
Add a block	rse example short name
	Course ? categor 其他 +
	Course 😧 Show 🗢

After create a course example, add user account for your student.

Dashboard	Search
ite home	Site administration Users Courses Grades Plugin
dar	Appearance Server Reports Development
es	Users
es	
	Accounts Browse list of users Bulk user actions
	Add a new user
	User default preferences
	User profile fields
	Cohorts
histration	Upload users
	Upload user pictures

🚯 Dashboard		Expand all
🖀 Site home	<ul> <li>General</li> </ul>	
🛗 Calendar	Usernam 💡 e	student
Private files	Choose 🕝	
My courses	authenticatio n method	Manual accounts 🗘
🞓 music		Suspended account ?
re code		Generate password and notify user
Site administration		The password must have at least 8 characters, at least 1 digit(s), at least 1 lower case letter(s), at least 1 upper case letter(s), at least 1 non- alphanumeric character(s) such as as *, -, or #
Add a block	New 🕜 password	Click to enter text 🖋 👁
		Force password change ?
	First <b>0</b> name	student
	Surname 🌗	stu
	Email <b>1</b> address	student@st.com
		Create user Cancel

After add user account for your student, give your students the right to learn the 'course example'. In the 'Participants', click 'Enroll users' to allow your student learn the course.



Select users	No selection	
	Search V	
Assign role	Student	:
Show more		

Enrol users

Here we completed a simple course creation and add a student user. Then we will add encrypted content to the blank course. We can encrypt some video, audio or pdf files by DRM-X 4.0 encryption platform, integrate DRM-X 4.0 with Moodle and embed the encrypted files into Moodle. It will make your students learn the course easily and securely.

×

# 2. Sign up for a DRM-X 4.0 account and encrypt your course.

Download the windows version of Xvast browser from Xvast official website: <u>https://www.xvast.com</u>. Open Xvast after installation.

To register a DRM-X 4.0 account through Xvast Browser, <u>https://4.drm-x.com/register.aspx</u>

🗶 Haihaisoft DRM-X prov 🗙		×
← → C ① 4.drm-x.com/Register.aspx	ም ታ	. :
	Phone: +86-512-50127486	Î.
DRM-X	Customer Login Free Trial Language V	
Home Products Services S	Solutions Downloads Customers About Us Support	
<b>66</b> Your sophistication looks far more than your competitors at a lower price too! I wasted so much time with windows media	DRM-X 90 Days Free Trial. Securely distribute your files to Windows, Mac, iOS and Android devices.	
drm, hexalock, multimedia protector and other methods.	Current version 4.0	
Your DRM is the answer I was looking for. <b>)</b>	Promotions: Enterprise customers first month free, allow commercial use	
DRM V Customer DUNCAN SCOTT	Please fill in all fields.	
	Password:	
The easiest, most secure way to protect your digital content.	Re-enter password:	
Register now and for 90 days you'll have full trial access to all the features and capabilities of the world's most powerful DRM platform.	Full Name:	
	Country:Not Specified	
	Phone:	
	Verification Code [t4d0] Refresh the image	
The second secon	DRM-X Prohibited Content:	
	Pornography or Sex related content.     Content that infringes the intellectual property rights of a third party.	
	I have read and agreed to the User Agreement. Register	+

Login to the newly registered DRM-X 4.0 account, In the DRM-X 4.0 Control Panel, first we click "Rights" to add a new rights. Set Rights Description, Rights Price, Open count, Expiration After First Use, Protect document, Not Allow Print, enable watermark. You can set the watermark content to prevent piracy. Dynamic watermarking supports two modes of display. The first way is to set the watermark's position and frequency of change. The second type of watermark display is a marquee effect with a higher level of security.

Ħ	Account Home	Edit Rights	٥
2	User Group	Edit Rights (*=Require	ed Fields)
	License Profile	Rights ID: *	19529
1	Rights	Rights Description: *	resources
<b>.</b>	Users	Rights Price: *	1 RMB Set Currency
สม์	Reports	Open Count: * 😯	10 For unlimited open count, please input -1
¢	Account Settings	Begin Date: * 🚱	10 • 27 • Year: 2018
ô	Protect File	Expiration Date: * 🕄	10 Vear: 2033
		Expiration After First Use: * 😯	-1 Hour(s) → To disable this limitation, please input -1. If user is monthly or yearly payment, please set 1 month or 1 year here. Expiration Date in Valid Date Range, please set 10 years later. System will use the earlier expiration time.
		Check Server Time 3	Check expiration date by connecting to Standard Time of server, it may take 1-2 seconds
		Disable Virtual Machine:	
		Protect PDF and Web	Page Settings
		Protect Document:	You need to enable Protect Document to set Allow Print & Allow ClipBoard
		Allow Print:	Allow Print. (You need to enable Allow Print to set Disable Virtual Printer & Print Count)
		-Disable Virtual Printer	After you disable virtual printer, only real (physical) printer can print document. This feature is only for Business Pro and Enterprise Account. Upgrade Account here
		-Print Count:	-1 For unlimited print count, please input -1. This feature is only for Business Pro and Enterprise Account. Upgrade Account here
		Allow ClipBoard:	User can copy text and print screen
		Show Watermark Set	tings (Only Applied to Business Account or Enterprise Account) Select another

Watermark S	Settings (Water	termark applied to MP4, WebM, PDF, Web Pages and Images)
Enable Water	rmark: *	
Watermark T	ext:*	您的商标 + €Username.
First Waterm	ark Area * 😯	Please select where you would like to show watermark in your video. <b>Note:</b> if you don't want display first watermark, please don't choose any Watermark Area.
Random Cha Watermark A	nge First area: 😯	Enable Random Change Watermark Area
Random Fred	quency: 🕄	12 Seconds
Font Size: 🥹		14 10~30 Pixels
Watermark A	lpha	127 Please enter watermark alpha value from:0~255. 0 is transparent, 255 is opacity. Default is 127 half transparent.
Second Enha Security Wate	nced ermark	4:Yellow Default is Close. We recommend you open it, choose different color 1~4. It enhances watermark security. It supports Windows & MacOS, and requires Xvast version 1.0.0.8 or later.
Second Wate	ermark Speed	1x Please choose watermark speed for Second Watermark

DRM-X 4.0 inherits 3.0's blacklist prevent screen recording feature. By setting the blacklist program, it can effectively prevent the blacklist from recording or screenshots. When the user opens the protected file, if the Xvast detects that a blacklist program is running, the Xvast will immediately block the blacklist process. Currently, the blacklist program contains hundreds of screen recording and screenshot programs.

Please Select Software in Blacklist (Programs with screen capture function. Business Windows, Business Pro and Enterprise account Only) Select another package here					
Select the software you want to block		Program Name	Exe Name		
when you play the video		Windows Media Encoder	wmenc.exe		
		Cam Recorder	camrecorder.exe		
		Windows Media Encoder Chinese	WMEnc.exe		
		Esun Screen Capture	SC.exe		
		Hyperionics HyperCam	HyCam2.exe		

Haihaisoft provides the unique Smart Prevent Screen Recording Technology. It can automatically and effectively detect Screen Recording software in the market, even future Recording Screen software. It helps content providers better control the Rights of their DRM-X 4.0 protected content.



With these steps, we have got a custom license right.

Ħ	Account Home	Manage R	ights			
9	User Group	Rights ID	Rights Description	Rights Details	Edit Rights	Delete
	License Profile	19529	resource	Details	Edit Rights	×
1	Rights	19475	example	Details	Edit Rights	×
÷	Users	19071	Courses Rights (Please don't delete)	Details	Edit Rights	×
ĩ	Reports	19030	Rent: Open 10 times, 72hours, \$1	Details	Edit Rights	×
ø	Account Settings	19029	Rent: Open 3 times, 24hours, \$1	Details	Edit Rights	×

And then let's add a new license profile which use the right we added above. We can encrypt files with this profile.

	License Profile	Profile ID	44779				
1	Rights	Profile Name*	profile	example	Thankyou	!	
÷	Users	Default Rights *	Select	Rights Name		Price	Rights Details
11	Reports			resource		1	Details
¢	Account Settings			example		0	Details
Â	Protect File			Courses Rights (Please dor	n't delete)	0	Details
v				Rent: Open 10 times, 72ho	urs, \$1	1	Details
				Rent: Open 3 times, 24hou	ırs, \$1	1	Details
			Add Nev	v Rights			
		Security Version*	2				
		ProductID in your system(Option):	60		]		
		Created Date	10/30/20	018 10:56:18 AM			
		Updated Date	10/30/20	018 10:56:18 AM			
		License Profile Settings					
		License is Revocable	If you to revoke	i check this option, Haihaisof e license when user open pro	ft client soft otected file v	ware will with inte	check if you want rnet connection.
		Revoke License	Note: when use the prote	: If you choose this option, X ers open the protected conte ected file encrypted with this	wast browse ent online. U license pro	r will rev Iser can file.	voke the license no longer open
		Force Internet	If you the prote makes lie to use wi	u choose this option, user m ected content. It ensures cus cense invocation more conve hen the network is bad.	ust have inte tomers use l enient. But a	ernet co latest Xv few use	nnection to open ast browser. It also rs may not be able

Which need to emphasize is that the value of 'ProductID in your system' must be same as your course ID in your own database. Generally students' course selection record is stored in the table "mdl\_role\_assignments". Here the course id of 'course example' is 56, so we must change the 'ProductID in your system' into 60. Furthermore, we can find that the user account whose UserID is 6 have the right to learn the course.

id	roleid	contextid	userid	timemodified	modifierid	component	itemid	sortorder
4	5	34	2	1539248586	2		0	0
8	5	34	3	1540267053	2		0	0
9	5	34	4	1540267199	2		0	0
10	5	21	3	1540267251	2		0	0
11	5	21	2	1540275505	2		0	0
15	5	60	6	1541055472	2		0	0

If you feel that looking for parameters in a lengthy database is too cumbersome, you can also find this parameter directly in the Moodle account. Click Settings in the 'Participants column of the course. Move your mouse over the permissions. You can find the URL in the lower left corner of the screen. The last number is the product ID of the course we are looking for.

re code	Select all Deselect all 😧 with selected users	•
re music	Selected an Develope at O With selected years	
My courses	□ Q 生学 studentemail@mail.com Student No Never ① groups	tive O
Private files	Select Surname Email address Roles Groups course Sta	atus
🛗 Calendar	Last access First name ▲ / to	
🖀 Site home		
2 Dashboard	AII A B C D E F G H I J K L M	
🗅 Topic 4	Surname	
🗅 Topic 3	N O P Q R S T U V W X Y Z	
🗅 Topic 2	First name	ns
🗅 Topic 1	Number of participants: 1	
🗅 General	Search keyword or select filter V Manual enrolmer	nts
I Grades	No filters applied Arrolled users	
	Participants	

Then we can encrypt files with the profile.

Click into the 'protect file', choose the right and license profile we added above.

Ħ	Account Home	Protect Files (mp4, mp css)	3, webm, wa	v, pdf, html, htm	ı, bmp, gif, png, jpg,	, jpeg, svg, webp, js,
0	User Group	Note: Please check the latest DRM-X 4.0 Security Settings. It will help you make your encryption				
	License Profile	safer. For beginners, please le	safer. For beginners, please learn: DRM-X 4.0 Encryption Tutorial			
1	Rights	Step 1. Select A License	e Profile:		Edit	this Profile New Profile
÷	Users	profile example		✓ Delete Selected	Profile: 🗙	
aii	Reports	Ctap 2 Dights of the col	acted License [	Profiles		Now Dights
٥	Account Settings	Step 2. Rights of the ser	ected License i	rome:		New Rights
Ô	Protect File	Rights Name	Price	Rights Details	Edit Righ	hts Delete
		resource	1	Details	Edit Rigi	hts 🗙
		Step 3. Which User Gro	oup can access	this License Profi	ile	New User Group
		Group Name	Edit	Group	View Users	Delete
		🖌 🗹 test	Edit	Group	Manage its Users	×
		After you selected Grou	ps, click here t	Apply		
		Step 4. Protect Files Onl	ine			
		DRM-X Online Encrypt How to: First, Download and in Important: Download member, please install ) extract zip, then copy 2 installed in: C:\Program Encrypt Dialog button. T Popup encrypt dialog P	stall Xvast bro and install Xv (vast Packager files Packager. Files (x86)/Xva Then you can s lease access th	wser ! Full Version. It en! exe and psum.db t st\). Then please a tart encryption. Ple is page in Xvast br	Version, You are alreat hances security level o to Xvast browser instal ccess this page in Xva ease check Encryption rowser	ady DRM-X 4.0 paid f protection. Please led directory(Default st browser, click Popup Tutorial.

Choose the file you want to encrypt and click 'Start'.

Kvast Pack	ager Full ۱،	/ersion		
Profile Name Output File	profile exar The same a	nple as input folder		▼ ✓ Add _P to encrypted files(audio/video/pdf only).
Source File				Browse files Browse directory
File Name	Size	Source File	Protected File	State
01James	498987	C: \Users\xetr\	C: \Users\xetr\Desk	Waiting
Progress:		[	Delete Selected Item	Output Folder Start Cancel

Ok, now we have encrypted a video file. Other audio or pdf files all can be encrypted like this. The detailed process of encryption can refer to the following tutorial Video encryption: <u>https://www.drm-x.com/DRM-X4.0\_encryption\_tutorial.aspx</u> Web page Encryption: <u>https://www.drm-x.com/DRM\_web\_page\_html\_encryption\_tutorial.aspx</u> PDF encryption: <u>https://www.drm-x.com/How\_To\_Encrypt\_PDF.aspx</u>

## 3. Integration between Moodle and DRM-X 4.0

Now we need to integrate DRM-X 4.0 with the Moodle website. After integration, students who have selected your course will be able to view the encrypted content in the course by simply logging into your Moodle website. Let's demonstrate the specific operation of the integration. **Sample code:** 

https://www.drm-x.com/download/DRM-X\_4.0\_Integration/DRM-X4.0\_Integration\_With\_Moodle.zip

According to the sample code, you need to copy four pages named 'index.php', 'reindex.php', 'login.php' and 'licstore.php'. When the user opens the encrypted file, it will automatically jump to 'index.php' to check if he has logged into his Moodle account. If not, jump to 'reindex.php' to login account. Otherwise, jump directly to 'login.php' to verify that the user's password is correct or not, whether user have the right to learn the corresponding course, etc. You can freely add and modify your verification code on this page. After that, if the user passes the verification, it will jump to 'licstore.php' to obtain the license and open the encrypted file.

In 'index.php', get the corresponding information of the encrypted file including profileid, clientinfo, rightsid, yourproductid, platform, contenttype, version, return\_url. Store these parameters in the global variable \$USER for later calls. Then determine if the user has logged into his Moodle account.

require\_once("../config.php");

\$USER->ProfileID = \$\_REQUEST["profileid"];

\$USER->ClientInfo = \$\_REQUEST["clientinfo"];

\$USER->Platform = \$\_REQUEST["platform"];

\$USER->ContentType = \$\_REQUEST["contenttype"];

\$USER->ProductID = \$\_REQUEST["yourproductid"];

\$USER->RightsID = \$\_REQUEST["rightsid"];

\$USER->Version = \$\_REQUEST["version"];

\$USER->Return\_URL = \$\_REQUEST["return\_url"];

if (isloggedin() or isguestuser()){

echo "<SCRIPT language=JavaScript>location='login.php';</SCRIPT>";

}else{

echo "<SCRIPT language=JavaScript>location='reindex.php';</SCRIPT>";

}

If the student hasn't logged into Moodle, jump to 'reindex.php' (It is not the initial login page of Moodle, which allows users to obtain licenses to view encrypted files without logging into Moodle.). Otherwise jump to login.php for specific verification.

If the user hasn't logged into Moodle, you will need to verify the password. If the user has already logged into Moodle, there is no need to verify the password.

```
if($_GET['un'] == 'login'){
     $username = $_REQUEST["username"];
     $pwd = $ REQUEST["password"];
     /***** verify the password ******/
     $result = mysqli_query($dbcon,"SELECT ID,password,email FROM mdl_user WHERE username
="".$username. """);
     $row = mysqli_fetch_array($result, MYSQLI_ASSOC);
     $email = $row['email'];
     $t hasher = new \PasswordHash(8, FALSE);
     $newpwd= $t_hasher->CheckPassword($pwd, $row['password']);
     if ($newpwd != true ) {
          $info = "Your Account or Password is incorrect! <br>Please revisit the course!<br>";
     } else{
          $ username = $username;
          $_SESSION['pwd']
                                    = $pwd;
          $ userid
                                    = $row['ID'];
          $ userEmail
                                         = $email;
     }
/***/
// If the user has already logged into moodle, there is no need to verify the password.
}else{
```

```
$username = $USER->username;
```

\$userEmail = \$USER->email;

\$userid = \$USER->id;

}

Then verify whether the user has permission to learn the course. If the verification is passed, save the user information to the DRM-X 4.0 account, then obtain the license and jump to next page to open the encrypted file. Note that the red code below needs to be changed to your DRM-X 4.0 account, the Web Service Authentication String you set (This will be demonstrated below) and the GroupID.

```
// Query the order based on the user ID
$id query = mysqli query($dbcon,"SELECT id FROM mdl user WHERE username="".$username. """);
$id_row = mysqli_fetch_array($id_query, MYSQLI_ASSOC);
$id_result = $id_row['id'];
$courseid_query = mysqli_query($dbcon,"SELECT contextid FROM mdl_role_assignments
                                                                                                   WHFRF
userid='" .$id result. "'");
while($courseid_row = mysqli_fetch_array($courseid_query, MYSQLI_ASSOC)){
     $courseid result = $courseid row['contextid'];
     if ($courseid_result == $USER->ProductID){
          /****** Check whether the user exists on the DRM-X platform*******/
          $wsdl="http://4.drm-x.cn/haihaisoftlicenseservice.asmx?wsdl";
          $CheckUser_param = array(
                'UserName'
                                     => $username,
                'AdminEmail'
                                     => 'yourEmail@163.com', //your DRM-X4.0 account
                'WebServiceAuthStr' => 'aaaaaa', // the Web Service Authentication String you set in DRM-X4.0
background
          );
          $client = new nusoap client($wsdl, 'wsdl');
          $client->soap defenceding = 'UTF-8';
          $client->decode_utf8 = false;
          $CheckUser = $client->call('CheckUserExists', array('parameters' => $CheckUser_param), ", ", true,
true);
          $CheckUser_result = $CheckUser['CheckUserExistsResult'];
          /*** End detecting whether the user exists **/
          // If the username is not exists, call 'AddNewUser' to add user.
          if($CheckUser_result == "False"){
                $add_user_param = array(
                     'AdminEmail'
                                           => 'yourEmail@163.com', // your DRM-X4.0 account
                     'WebServiceAuthStr' => 'aaaaaa', // the Web Service Authentication String you set in
DRM-X4.0 background
```

'GroupID' => '11726', //GroupID

'UserLoginName'	=> \$username, // Username or ID
'UserPassword'	=> 'N/A',
'UserEmail'	=> \$userEmail,
'UserFullName'	=> 'N/A',
'Title'	=> 'N/A',
'Company'	=> 'N/A',
'Address'	=> 'N/A',
'City'	=> 'N/A',
'Province'	=> 'N/A',
'ZipCode'	=> 'N/A',
'Phone'	=> 'N/A',
'CompanyURL'	=> 'N/A',
'SecurityQuestion'	=> 'N/A',
'SecurityAnswer'	=> 'N/A',
'IP'	=> getIP(),
'Money'	=> '0',
'BindNumber'	=> '2',
'IsApproved'	=> 'yes',
'IsLockedOut'	=> 'no',

);

\$add\_user = \$client->call('AddNewUser', array('parameters' => \$add\_user\_param), ", ", true,

true);

\$result = \$add\_user['AddNewUserResult'];

### }

/\*\*\* Successfully added new users \*\*\*/

/\*\*\*\*\* obtain a license after the license authority is updated \*\*\*\*/

\$param = array(

'AdminEmail' => 'yourEmail@163.com', // your DRM-X4.0 account

'WebServiceAuthStr'=> 'aaaaaa', // the Web Service Authentication String you set in DRM-X4.0

#### background

'ProfileID'	=> \$USER->ProfileID,
'ClientInfo'	=> \$USER->ClientInfo,
'RightsID'	=> \$USER->RightsID,
'UserLoginName'	=> \$username,
'UserFullName'	=> 'N/A',
'GroupID'	=> 11726, //GroupID
'Message'	=> 'N/A',
'IP'	=> getIP(),
'Platform'	=> \$USER->Platform,
'ContentType'	=> \$USER->ContentType,
'Version'	=> \$USER->Version,

);

```
$client = new nusoap_client($wsdl, 'wsdl');
           $client->soap defenceding = 'UTF-8';
           $client->decode_utf8 = false;
           /***** Obtain a license by calling the getLicenseRemoteToTableWithVersion method *****/
          $result = $client->call('getLicenseRemoteToTableWithVersion', array('parameters' => $param), '', '', true,
true);
           $license = $result['getLicenseRemoteToTableWithVersionResult'];
           $message = $result['Message'];
           if(stripos($license, '<div id="License_table_DRM-x4" style="display:none;">') === false )
             echo
                       "<SCRIPT
                                    language=JavaScript>location='LicError.php?error=".$license."&message=".
$message."';</SCRIPT>";
           /***** After obtaining the license, store the license and message into $USER, then jump to the licestore
page. ******/
           $USER->license = $license;
           $USER->message = $message;
           echo "<SCRIPT language=JavaScript>location='licstore.php';</SCRIPT>";
           flag = 1;
           $info = "Getting license...";
           exit;
     }
}
```

Here is just the simplest example verification. If you have more feature plugins installed in Moodle, such as courses purchasing, fees paying, etc., you also need to include the verification about whether student has submitted orders, whether the payment is completed or not in the code. Enter the account setting options of the DRM-X platform again, and click in 'Website Integration Preferences' then 'Custom login page integration'. Fill in the 'Web Service Authentication String' and 'License URL'. After the user opens the encrypted file, it will jump to your Moodle integration page for verification.

ŧ	Account Home	Account Settings		
-				
ŏ	User Group	Account Information	Preferences	Tools
	License Profile	Contact Information	Payment Preferences	Batch Create Users
1	Rights	Change Password	Currency Preferences	Batch Create License Profiles
÷	Users	Notification	Website Integration Preferences	Export Users CSV File
ĩÎ	Reports	Renew Service	End User Settings	Import Users CSV File
\$	Account Settings	Select another package here	Manage Blacklist	Xvast Inspect Settings
î	Protect File		Force Use Latest Xvast Browser	

Account Settings
Profile - Website Integration Preferences
Integration Method: Integration Help
Synchronize user integration     Synchronize user integration
Note: Synchronize user integration is synchronize your website users to DRM-X.com your user. We protect the password with strong encryption. It's secure and easy. (Recommend for most users) Custom login page integration is when user acquiring license, it will pop up your website DRM login window to acquire license. It requires you create a new DRM login page. It requires more code work. (Not Recommend, only for advanced users) Please set a Web Service Authentication String for DRM-X web service (DRM-X need you provide this string to access DRM-X web service.)
aaaaaa
Please enter License URL(Must begin with http:// or https://) (License URL is the url used by pop window when acquiring license)
http://192.168.0.103/moodle/mdl_integration/index.php
Submit Cancel

Now we basically completes the integration of DRM-X with our Moodle website. Then you can simply send the encrypted file to your students and they should open it in the Xvast browser. But those who do not have access to your course will not be able to view the encrypted file even though they get the file.

Also you can embed encrypted files directly into your Moodle page so that your students can browse and learn your course directly on your website.

Add an activity or resource to topic 1 of 'course example' you just created and select the page.

🖻 example	course example	<b>o</b> -	
嶜 Participants	Dashboard / Courses / example		
Badges			
Competencies			
I Grades	🕂 📮 Announcements 🖋	Edit 👻 🛓	
🗅 General		+ Add an activity or resource	
🗅 Topic 1	• Taria 1		
🗅 Topic 2		Edit -	
C Topic 3			

We use the first method to embed the encrypted video through the file mode. (Recommended)



<ul> <li>General</li> </ul>					
Name	0	test video			
Description		l A B I		2 🖬 🖄 на	• 
			ourse page 🍘		
Select files				Maximum size f	or new files: Unlimited
		🕒 🗅 📥			III 🗉 🖿

Then you need to modify the videojs plugin code of Moodle, please find the file to be modified through the following path.

Moodle\media\player\videojs\classes\plugin.php

Forever Reia

Add the following code on line 203:

<pre>\$text = \$text.'<script>document.onreadystatechange = function</pre></th></tr><tr><td><pre>() {if (document.readyState == "complete") {let xvastPlayer =</pre></td></tr><tr><td><pre>document.getElementById("'.\$attributes['id'].'");let isSupp =</pre></td></tr><tr><td><pre>xvastPlayer.canPlayType("xvast");if(isSupp.indexOf("http")>0){</pre></td></tr><tr><td><pre>let licURL = isSupp.substring(isSupp.indexOf("http"));window.l</pre></td></tr><tr><td><pre>ocation.href = licURL;}}</script>';</pre>
---

As shown below:



Once completed, you can access the course files through Xvast and Xvast will automatically be directed to the Get License page.

Next, we look at the second mode. Select Page.

۲	P	Page			
0		URL	-		
				Add	Cancel

As shown below, add the embed code in the html column. The embed code has been saved in the sample code folder, and you just need to modify red URL below to the URL of your encrypted file.

🗅 Topic 1	✓ Content
C Topic 2	Page content 0 1 i + B I Ⅲ Ⅲ 号 S 🖼 🗟 🕸 🖄
C Topic 3	
🗅 Topic 4	<div id="playerButton" style="display: none;"></div>
Dashboard	January Jan
# Site home	<script type="text/javascript"> ifinavigator.userAgent.indexOf("Xivast") == -1)(</th></tr><tr><th>🛗 Calendar</th><th>document.write("Please open the protected files in Xvast browser. Download Xvast"); ]else[</th></tr><tr><th>Private files</th><th>document.write("video id="ixvast_player" controls="controls" src="http://192.168.0.103,01戰勝佳的故事_Pmp4" class="video-js" data-setup=\{ "autoplay"/alse, "playbackRates"; [05, 0.7, 1, 1, 5, 2, 3, 4], "width": 856, "height": 480 ]\\>);</th></tr><tr><th>🞓 My courses</th><th>) </script>
= music	<script charset="utt-8" src="nttp://i.yz_tos.u.tu/ymooale/mai_integration/xvastriager/js/Xvastriag/sr" type="text/javascript"></script>

<div id="LoadingText" style="display: none;" align="center">

```
Please wait, connecting to obtain license page... </div>
```

```
<div align="center" style="margin-top: 10px">
```

```
<div id="playerButton" style="display: none;">
```

<button onclick="supportType (event,'video/ogg','theora, vorbis')" class="playerButton" type="button

```
">Get License...
```

</button></div>

<script type="text/javascript">

```
if(navigator.userAgent.indexOf("Xvast") == -1){
```

document.write('Please open the protected files in Xvast browser. Download Xvast');

}else{

```
document.write('<video id="xvast_player" controls="controls"
```

```
src="http://192.168.0.103/01James Hudson Taylor_P.mp4" class="video-js"
```

```
data-setup=\'{ "autoplay":false, "playbackRates": [0.5, 0.7, 1, 1.5, 2, 3, 4], "width": 856, "height": 480 }\'>');
```

```
}
</script>
```

## 4. Play your course

You can play your course after the integration is completed. Open your website in Xvast browser and login with student account. Then open the "Course example" and Xvast will automatically get the license and play the encrypted content.



After embedding the code, it will show the video like this. There will be two watermarks moving when the video is playing. You can customize the content of the watermark to prevent from being recorded. In addition, DRM-X 4.0 also has blacklist and smart prevent screen recording technology to prevent malicious recording or screen captures. Students who participate in the course can play its encrypted video directly.

Similarly, you can add your encrypted pdf file link directly to your course page. Your students can get license to read the content. The watermark can prevent your encrypted PDF from malicious screen capture, because the content in the watermark will reveal the personal information of the user who transmitted the source.



So far, we have introduced how to build a teaching website based on Moodle, how to encrypt files with DRM-X 4.0 and how to integrate DRM-X 4.0 with Moodle. With this features, your students can easily view your encrypted files while you can also get rid of the piracy problems about transferring or selling your course.