Mahara-Moodle Integration

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About the notation

• We are going to show how make the integration with both Moodle 1.9 and Moodle 2.0

• Slides showing how to do it with Moodle 1.9 are marked with 1.9

• Slides showing how to do it with Moodle 2.0 are marked with 2.0
What can we do with Mahoodle?

- We can do Single Sign On (SSO) between Moodle and Mahara.
- With a third-party contributed development*, a new Moodle assignment type allows us to use existent Mahara views as submissions.

* You can find the code and installation and configuration instructions at http://wiki.mahara.org/System_Administrator's_Guide/Moodle//Mahara_Integration/View_Submission
What can we do with Mahoodle?

• We can do Single Sign On (SSO) between Moodle and Mahara.

• We can export* various kinds of elements from Moodle to Mahara (portfolio API).

• In future 2.x versions, we will be able to import elements from Mahara to Moodle (repository API).

* Subject to permissions granted on each kind of object.
Let's do the integration twist :-) 

Some assumptions:

- Moodle 1.9 (at http://192.168.56.100/moodle-19 in the examples shown here) or Moodle 2.0 (at http://192.168.56.100/moodle-20).
- Mahara 1.3 (at http://192.168.56.101/mahara-13)
- Both installed with basic configurations.
- Each on a separate server.
- Installed on a Linux/Unix server.
- With OpenSSL installed and configured.
- Both servers can send email.
The steps...
Enable Moodle Network...
...a new public key is created.
Remember to turn Networking on

Valid until: Monday, 3 January 2011, 12:34 AM

Networking: On

---END CERTIFICATE---
Enable Moodle Network...

1. Navigate to the "Advanced features" section in Settings.
2. Enable the Networking feature with "mnet_dispatcher_mode" set to "On".
3. Enable the "Enable completion tracking" feature with "enablecompletion".
4. Enable the "Enable plagiarism plugins" feature with "enableplagiarism".
5. Save changes.
...and a new public key is created.

About your server

Public key: -----BEGIN CERTIFICATE-----
MIIEzCCA/ygAwIBAgIIBM4NByYQDIeKwIBAgYEAgEwAgIBAgIyMQswCQYDVQQGEwJF
UzEyMBYGA1UEChMWMl0b3JpYS1HYXNOZWl6MRQwFgYDVQQHEwJ9WxARcmhlLhdc3
RlaXoxFDASBgnNVBAoTC21v2RsZS1oZwFkMQ0wDQYDVQQLEwZNb29kBGJhTAJAbGn
VBAMTHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA
6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhv
cy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxl
LhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhB
GNBVAMTHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodH
A6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbG
hvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZG
xlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjT
A'hBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETH
QhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9s
b2NhbGhvcy3Qvbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Q
vbw9vZGxlLhlyWxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhvcy3Qvbw9vZGxlLhly
WxQjTAJhBgnVHRETHQhodHA6Ly9sb2NhbGhv
-----END CERTIFICATE-----

Valid until: Wednesday, 18 November 2009, 09:31 PM
Enable (Moodle) Networking in Mahara

Welcome to Mahara

Mahara is a fully featured electronic portfolio, weblog, resume builder and social networking system, connecting people. Mahara provides you with the tools to set up a personal learning and development environment.

For more information you can read About Mahara or alternatively please feel free to Contact Us.

Create and Collect

Develop your portfolio

Organise

Showcase your portfolio with views
Enable (Moodle) Networking in Mahara (cont.)

Administration

Register your Mahara Site

You can choose to register your Mahara Site with mahara.org, and help us to build up a picture of the Mahara installation base around the world. Registering will remove this notice.

You can register your site, and preview the information that will be sent on the Site Registration page.

Configure Site

- Site options - Configure basic site options such as the name, language and theme
- Edit site pages - Edit the content of various pages around the site
- Menus - Manage the links and files within the Links and Resources and Footer Menus
- Networking - Configure networking for Mahara
- Site Views - Create and administer Views and View Templates for the entire site
- Site Files - Upload and administer files that can be put in the Links and Resources Menu and in Site Views
...a new public key is created.

Remember to turn Networking on

Networking

Mahara's networking features allow it to communicate with Mahara or Moodle sites running on the same or another mash who log in at either Moodle or Mahara

WWW Root
http://192.168.56.101/mahara-13/

This is the URL at which your users access this installation, and the URL the SSL keys

Public key
-----BEGIN CERTIFICATE-----
MIIDzTAzAgAwIBAgIBADANBgkqhkiG9w0BAgEFADBpJELMAkGA1UEBhMCIT0x
EzARBgNVBAgTClGlgbXpmNDB2kzOzANBgNVBAcTB1RnLZIzIFYzDQ8zMw0y
MA0GCS0GCSqGSIb3DQEBCwYIKoYBBQUHAwIBAAYDMkwEwYHKoYBBQUHAw
JKoZIhvcNAEBBDAdTAmGjAoGBANC4qISPzdB3j1CC9sEnZI2vhnZe6V7v
vv2zd1d6mMR7nQHnn2l5ywvYJfZ1Xv13/SC/nOum/rNg
vlyj/pLaZvl7dU7h0roZgioneA2223g bkDers7G/4rYkC1ZmNc0T02a13c3HKEnxY/N9
Pg3enILStewZ1/KB3Cfj51PRajdEIt2Pnpl88d3e1AAOMDAACgq7xEM1424W5AD63qNY
Q4EFGQeKlBnAcBoCvoKd21xuqgusvAa Ny+QbvdMA1UdVvBzC7dEIA1uAbpApAcAc
BvoKoLi5i7ru6AtYlnHqagaaykgakwacYZCAzBglNVAYATAgSgFhMVwEOYDVQIEdwP
X2lX25Xws383w1M7oLw5GjZOQvDQE9x0gQepOx3yVWv0Kl1eqGyYwZnEPMAdG
A1JECvMGTWFOYy3hM6czgJyDVQODEx90dHRYOx8WntKyLjeOC4IN4k4mDfBwFco
XyJXJL6z7xMskTwYjK3ZIzhvCNAQKbPhz3u3lC955E5W4I+xJNgutyRuMTAxxgEA
A1y6G4uUQvFqXMMVAFbQdqY_KoZ1IhvcNAE0F84DqYF4AyMnpypvXJFXJL9M2L3W
Rv9yFbKjX04mOlS5u/gywWy31kV6o97qRk1Y+PFP473/8EB/S750S5J3w3mRQ
+7yDu3iHm730169S49H4mY0NJ4L6zi1rYfl0ryA1fUOYFlu7ImY0
B50sNm0v2z/index.php=
-----END CERTIFICATE-----

This public key is automatically generated, and rotated every 365 days

SHA1 Fingerprint

MD5 Fingerprint

Public key expires
09 November 2011, 11:20 PM

Enable networking

Allow your Mahara server to communicate with servers running Moodle and other applications
Add a new institution (optional)

Adding a separate institution for SSO (Single Sign On) users is recommended, to ease configuration management.
Give it a name and display name.
Disable registration (optional)

Administer Institutions

Add Institution

Institution name: Mahoodle
Institution display name: Mahoodle
Institution expiry date: 2010 November 9
Registration allowed: No
Default membership period: No end date
Theme: Site Default (Default)
Maximum User Accounts Allowed

Locked fields

Submit Cancel
Add new authentication plugin (XMLRPC) to institution

Administer Institutions

**Institution display name**

**Institution expiry date**

The date at which this institution’s membership of Mahara will be suspended.

**Authentication plugin**

**Registration allowed?**

Whether users can register for your site for this institution using the registration form. If registration is allowed, members cannot leave the institution or delete their user accounts voluntarily.

**Default membership period**

How long new members remain associated with the institution.
Give Moodle site details and choose desired configuration.

Enter Moodle's wwwroot value **exactly** as it appears in config.php

- **Authority name**: moodle-19
- **WWW root**: /192.168.56.100/moodle-19
- **Site name**: moodle-19
- **Application**: Moodle
- **Port number**: 80
- **Parent authority**: None

Enter a message to display when a user tries to log in via Mahara's login form
Remove Internal authentication (optional)

If we want users to log in Mahara through Moodle only, remove the internal authentication plugin by clicking on [X].
Add Mahara as a Peer in Moodle

![Site Administration menu with Peers section highlighted]
Enter Mahara site wwwroot value and select Mahara host type

VERY IMPORTANT: Enter the wwwroot value **exactly** as it appears in Mahara's config.php file.
Confirm that the public key and other data are correct

Site: Home - Mahara


Public key:

Valid until: Friday, 16 December 2011, 11:20 PM

IP address: 127.0.0.1

Save changes
When Mahara Peer is added, configure its services.
Publish “SSO (Identity Provider)”
Subscribe “SSO (Service Provider)”

SSO (Identity Provider)
Publish this service to allow your users to roam to the Home - Mahara Moodle site without having to re-login there.

- *Dependency:* You must also **subscribe** to the SSO (Service Provider) service on Home - Mahara.

Subscribe to this service to allow authenticated users from Home - Mahara to access your site without having to re-login.

- *Dependency:* You must also **publish** the SSO (Service Provider) service to Home - Mahara.

- Publish
- ✔️ Subscribe

SSO (Service Provider)
Publish this service to allow authenticated users from Home - Mahara to access your site without having to re-login.

- *Dependency:* You must also **subscribe** to the SSO (Identity Provider) service on Home - Mahara.

Subscribe to this service to allow your users to roam to the Home - Mahara Moodle site without having to re-login there.

- *Dependency:* You must also **publish** the SSO (Identity Provider) service to Home - Mahara.

- ✔️ Subscribe
Add Mahara as a Peer in Moodle

- Security
- Appearance
- Front page
- Server
- Networking
  - Settings
  - Manage peers
    - Peers
    - SSO access control
    - Remote enrolments client
    - XML-RPC hosts
    - Profile fields
- Reports
Enter Mahara site wwwroot value and select Mahara application type

VERY IMPORTANT: Enter the wwwroot value **exactly** as it appears in Mahara's config.php file.
Confirm that the public key and other data are correct
When Mahara Peer is added, configure its services
Publish “SSO (Identity Provider)”
Subscribe “SSO (Service Provider)”

SSO (Identity Provider)

Publish this service to allow your users to roam to the Home - Mahara site without having to re-login there.

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Subscribe to this service to allow authenticated users from Home - Mahara to access your site without having to re-login.

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Publish ✅
Subscribe ☑

SSO (Service Provider)

Publish this service to allow authenticated users from Home - Mahara to access your site without having to re-login.

- *Dependency:* You must also subscribe to the SSO (Identity Provider) service on Home - Mahara.

Subscribe to this service to allow your users to roam to the Home - Mahara site without having to re-login there.

- *Dependency:* You must also publish the SSO (Identity Provider) service to Home - Mahara.

Publish ☑
Subscribe ✅

[Save changes] [Cancel]
Enable Moodle Network authentication...
...and verify its configuration

### Manage authentication

#### Active authentication plugins

<table>
<thead>
<tr>
<th>Name</th>
<th>Enable</th>
<th>Up/Down</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual accounts</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>No login</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td><strong>Moodle Network authentication</strong></td>
<td></td>
<td></td>
<td><strong>Settings</strong></td>
</tr>
<tr>
<td>CAS server (SSO)</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>External database</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>Email-based self-registration</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>FirstClass server</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
</tbody>
</table>
Verify that Mahara peer is displayed with the right details

Moodle Network authentication

Users are authenticated according to the web of trust defined in your Moodle Network settings.

<table>
<thead>
<tr>
<th>RPC negotiation timeout:</th>
<th>The timeout in seconds for authentication over the XMLRPC transport.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto add remote users:</td>
<td>When set to Yes, a local user record is auto-created when a remote user logs in for the first time.</td>
</tr>
</tbody>
</table>

These host's users can roam in to your site:

Your users can roam out to these hosts:

Enable Moodle Network authentication...
...and verify its configuration

<table>
<thead>
<tr>
<th>Name</th>
<th>Enable</th>
<th>Up/Down</th>
<th>Settings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual accounts</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>No login</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>vMNet authentication</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>CAS server (SSO)</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>External database</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>Email-based self-registration</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>FirstClass server</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
<tr>
<td>IMAP server</td>
<td></td>
<td></td>
<td>Settings</td>
</tr>
</tbody>
</table>
Verify that Mahara peer is displayed with the right details

**MNet authentication**

Users are authenticated according to the web of trust defined in your Moodle Network settings.

**RPC negotiation timeout:** 30  The timeout in seconds for authentication over the XMLRPC transport.

These host's users can roam in to your site:

Your users can roam out to these hosts:


[Save changes]
Modify role(s) to allow users to roam to a remote Moodle/Mahara

Site Administration

- Notifications

User
- Authentication
- Accounts
- Permissions
  - Define roles
    - Assign system roles
    - User policies

- Courses
- Grades
- Location
- Language
- Modules
- Security
Edit “Authenticated User” role

But we can use any other role (or even define new roles just for this purpose).

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Short name</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administrator</td>
<td>Administrators can usually do anything on the site, in all courses.</td>
<td>admin</td>
<td>✗ ☑</td>
</tr>
<tr>
<td>Course creator</td>
<td>Course creators can create new courses.</td>
<td>coursecreator</td>
<td>✗ ☑ ☑</td>
</tr>
<tr>
<td>Teacher</td>
<td>Teachers can do anything within a course, including changing the activities and grading students.</td>
<td>editingteacher</td>
<td>✗ ☑ ☑</td>
</tr>
<tr>
<td>Non-editing teacher</td>
<td>Non-editing teachers can teach in courses and grade students, but may not alter activities.</td>
<td>teacher</td>
<td>✗ ☑ ☑</td>
</tr>
<tr>
<td>Student</td>
<td>Students generally have fewer privileges within a course.</td>
<td>student</td>
<td>☑</td>
</tr>
<tr>
<td>Guest</td>
<td>Guests have minimal privileges and usually cannot enter text anywhere.</td>
<td>guest</td>
<td>☑</td>
</tr>
<tr>
<td>Authenticated user</td>
<td>All logged in users.</td>
<td>user</td>
<td>☑</td>
</tr>
</tbody>
</table>

Add a new role
Enable “Roam to a remote Moodle” capability

<table>
<thead>
<tr>
<th>System</th>
<th>1.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create new blog entries</td>
<td></td>
</tr>
<tr>
<td>moodle/blog:create</td>
<td></td>
</tr>
<tr>
<td>Request new courses</td>
<td></td>
</tr>
<tr>
<td>moodle/course:request</td>
<td></td>
</tr>
<tr>
<td>Manage myMoodle page blocks</td>
<td></td>
</tr>
<tr>
<td>moodle/my:manageblocks</td>
<td></td>
</tr>
<tr>
<td>Configure question types</td>
<td></td>
</tr>
<tr>
<td>moodle/question:config</td>
<td></td>
</tr>
<tr>
<td>Create users on restore</td>
<td></td>
</tr>
<tr>
<td>moodle/restore:createuser</td>
<td></td>
</tr>
<tr>
<td>Create and manage roles</td>
<td></td>
</tr>
<tr>
<td>moodle/role:manage</td>
<td></td>
</tr>
<tr>
<td>Approve course creation</td>
<td></td>
</tr>
<tr>
<td>moodle/site:approvecourse</td>
<td></td>
</tr>
<tr>
<td>Change site configuration</td>
<td></td>
</tr>
<tr>
<td>moodle/site:config</td>
<td></td>
</tr>
<tr>
<td>Allowed to do everything</td>
<td></td>
</tr>
<tr>
<td>moodle/site:doanything</td>
<td></td>
</tr>
<tr>
<td>Show links to offsite docs</td>
<td></td>
</tr>
<tr>
<td>moodle/site:doclinks</td>
<td></td>
</tr>
<tr>
<td>Customize local translation</td>
<td></td>
</tr>
<tr>
<td>moodle/site:langeditlocal</td>
<td></td>
</tr>
<tr>
<td>Edit master language packages</td>
<td></td>
</tr>
<tr>
<td>moodle/site:langeditmaster</td>
<td></td>
</tr>
<tr>
<td>Roam to a remote Moodle</td>
<td>✔</td>
</tr>
<tr>
<td>moodle/site:roamtoremote</td>
<td></td>
</tr>
<tr>
<td>Read all messages on site</td>
<td></td>
</tr>
<tr>
<td>moodle/site:readallmessages</td>
<td></td>
</tr>
</tbody>
</table>
Modify role(s) to allow users to roam to a remote Moodle/Mahara

- Site administration
  - Notifications
  - Registration
  - Advanced features
- Users
  - Accounts
  - Permissions
    - User policies
    - Site administrators
      - Define roles
    - Assign system roles
    - Check system permissions
Edit “Authenticated User” role

But we can use any other role (or even define new roles just for this purpose).

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
<th>Short name</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager</td>
<td>Managers can access course and modify them, they usually do not participate in courses.</td>
<td>manager</td>
<td></td>
</tr>
<tr>
<td>Course creator</td>
<td>Course creators can create new courses and teach in them.</td>
<td>coursecreator</td>
<td></td>
</tr>
<tr>
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<td>Teachers can do anything within a course, including changing the activities and grading students.</td>
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<td></td>
</tr>
<tr>
<td>Student</td>
<td>Students generally have fewer privileges within a course.</td>
<td>student</td>
<td></td>
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<tr>
<td>Guest</td>
<td>Guests have minimal privileges and usually can not enter text anywhere.</td>
<td>guest</td>
<td></td>
</tr>
<tr>
<td>Authenticated user</td>
<td>All logged in users.</td>
<td>user</td>
<td></td>
</tr>
</tbody>
</table>

Add a new role
Enable “Roam to a remote Moodle” capability

<table>
<thead>
<tr>
<th>Configure question types</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/question:config</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Create users on restore</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/restore:createuser</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Create and manage roles</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/role:manage</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approve course creation</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/site:approvecourse</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Change site configuration</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/site:config</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Show links to offsite docs</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/site:doclinks</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Roam to a remote application via MNet</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/site:mnetloginremote</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Read all messages on site</th>
<th>Allow</th>
</tr>
</thead>
<tbody>
<tr>
<td>moodle/site:readallmessages</td>
<td></td>
</tr>
</tbody>
</table>
Add a block to let users roam to another Moodle/Mahara site

You can put it in the front page or any other course (or even all courses, using a “sticky” block)
Add “Network Servers” block
The block will show all the Peers subscribed as “Service Provider”
Log in with a user that has a roaming-enabled role and click on the Mahara Peer link
We “land” in Mahara

Welcome to Mahara

Mahara is a fully featured electronic portfolio, weblog, resume builder and social networking system, connecting users and creating online communities. Mahara provides you with the tools to set up a personal learning and development environment.

For more information you can read About Mahara or alternatively please feel free to Contact Us.

- Logged in as our “Moodle user”.
- With our user details filled-in.
- Showing where we have logged in from.
What if it doesn't work?

• Enable Moodle/Mahara debuggin options and check PHP error logs.

• Make sure there are no antivirus, firewalls or other network problems that prevent Peer communications.

• Make sure Mahara server can send emails.

• If the Peer public key is not retrieved/recognized, make sure wwwroot value is correctly entered (in both Peers).
What if it doesn't work?

• Check that the required PHP extensions are installed and enabled:
  • OpenSSL, XMLRPC and cURL
  • Beware of defective versions of those extensions! (check PHP documentation)
• If using MS Windows, make sure Moodle and Mahara can find openssl.conf file*.

* Check PHP OpenSSL extension documentation or use Moodle $CFG->opensslcnf setting or Mahara $cfg->opensslcnf setting.
What if it doesn't work?

- Make sure date and time is right in both Peers (using NTP is highly recommended).
- If time difference is over 30 seconds, connections don't work.
- If Moodle and Mahara are installed in the same server, make sure DNS (or hosts file) and virtual servers are correctly configured to send HTTP request to the right virtual host.
What if it doesn't work?

- In older versions of Moodle, public keys didn't always rotate correctly:
  - Recreate the keys manually, delete the peers and add them again (re-configuring them again).
  - Or use Moodle configuration setting `$CFG->mnetkeylifetime` to use longer rotation periods (by default, they last for 28 days).
- Make sure we didn't mistake Publish for Subscribe (or the other way around) when configuring the Peer.
Other known problems

• We can end up with duplicated users in Mahara if we allow institution users to log in both locally and via Moodle Network SSO.

• We can prevent this by using this Mahara setting: 
  `$cfg->usersuniquebyusername = true;`

• VERY IMPORTANT: Make really sure no Mahara institution allows self-registration if using the above setting!!!

• Check Mahara documentation to be aware of the side effects of that setting.
Exporting content from Moodle to Mahara
Enable portfolio feature
# Enable portfolio feature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enable comments</td>
<td>Default: Yes</td>
</tr>
<tr>
<td>Enable tags functionality</td>
<td>Default: Yes</td>
</tr>
<tr>
<td>Enable notes</td>
<td>Default: Yes</td>
</tr>
<tr>
<td>Enable portfolios</td>
<td>Default: No</td>
</tr>
<tr>
<td>Enable web services</td>
<td>Default: No</td>
</tr>
</tbody>
</table>

- **Enable comments**: Default: Yes
  - Enable comments

- **Enable tags functionality**: Default: Yes
  - Should tags functionality across the site be enabled?

- **Enable notes**: Default: Yes
  - Enable storing of notes about individual users.

- **Enable portfolios**: Default: No
  - This will allow administrators to configure remote systems for users to export content to

- **Enable web services**: Default: No
  - Web services enable other systems to log in to this Moodle and perform
Edit Mahara Peer settings

- Appearance
- Front page
- Server
- Networking
  - Settings
  - Manage peers
  - Peers
    - All Hosts
    - Home - Mahara
  - SSO access control
  - Remote enrolments client
  - XML-RPC hosts
  - Profile fields
- Reports
- Development
Edit Mahara Peer settings

Review host details

Services

Profile fields

Site: Home - Mahara
Hostname: //192.168.56.101/mahara-13
Force theme: Do not force
Public key: BEGIN CERTIFICATE-----

-----END CERTIFICATE-----
Publish and Subscribe
Portfolio services

**Portfolio services**

Allow users to push Moodle content to this host
Subscribe to **and** publish this service to allow authenticated users in your site to push content to Home - Mahara

- **Dependency:** You must also **publish** the SSO (Identify Provider) service to Home - Mahara.
- **Dependency:** You must also **subscribe** to the SSO (Service Provider) service on Home - Mahara
- **Dependency:** You must also enable the MNet authentication plugin.

---

**SSO (Identity Provider)**

Publish this service to allow your users to roam to the Home - Mahara site without having to re-login there.

- **Dependency:** You must also **subscribe** to the SSO (Service Provider) service on Home - Mahara.
Enable Mahara portfolio plugin
Enable Mahara portfolio plugin
Configure Mahara portfolio plugin

Configure portfolio plugin

- Name: Mahara ePortfolio
- MNet host: Home - Mahara
- Enable Leap2A portfolio support: Yes

Save Cancel

There are required fields in highlighted red.
We can check configuration settings or change them if needed.
Assign permissions to export content to Mahara

- Site administration
  - Notifications
  - Registration
  - Advanced features
- Users
  - Accounts
  - Permissions
    - User policies
    - Site administrators
      - Define roles
    - Assign system roles
    - Check system permissions
    - Capability report
    - Unsupported role assignments
Assign permissions to export content to Mahara

We can use an *ad-hoc* created role, instead of using student, teacher or any of the pre-defined roles.

<table>
<thead>
<tr>
<th>Role</th>
<th>Description</th>
<th>Short name</th>
<th>Edit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager</td>
<td>Managers can access course and modify them, they usually do not participate in courses.</td>
<td>manager</td>
<td>↓ ✏️ ×2 ✗</td>
</tr>
<tr>
<td>Course creator</td>
<td>Course creators can create new courses and teach in them.</td>
<td>coursecreator</td>
<td>↑ ↓ ✏️ ×2 ✗</td>
</tr>
<tr>
<td>Teacher</td>
<td>Teachers can do anything within a course, including changing the activities and grading students.</td>
<td>editingteacher</td>
<td>↑ ↓ ✏️ ×2 ✗</td>
</tr>
<tr>
<td>Non-editing teacher</td>
<td>Non-editing teachers can teach in courses and grade students, but may not alter activities.</td>
<td>teacher</td>
<td>↑ ↓ ✏️ ×2 ✗</td>
</tr>
<tr>
<td>Student</td>
<td>Students generally have fewer privileges within a course.</td>
<td>student</td>
<td>↑ ✏️ ×2 ✗</td>
</tr>
<tr>
<td>Guest</td>
<td>Guests have minimal privileges and usually can not enter text anywhere.</td>
<td>guest</td>
<td>↑ ↓ ✏️ ×2</td>
</tr>
<tr>
<td>Authenticated user</td>
<td>All logged in users.</td>
<td>user</td>
<td>↑ ✏️ ×2</td>
</tr>
</tbody>
</table>
Assign permissions to export content to Mahara

Course creator, teacher, non-editing teacher, student and authenticated user roles have this permission enabled by default.
Now we just have to export content

- Each type of activity can be exportable or not.
- Each type of activity has its own permissions to determine what can be exported.
- Students can only export content created by themselves by default (i.e. “their own content”).
- Let's see an example with a forum type activity.
Forum type activity export permissions example

- Go into a forum and use its administration block:
**Forum type activity export permissions example**

We can check what roles are allowed to export what, and optionally, modify current permissions.

<table>
<thead>
<tr>
<th>Permission</th>
<th>Role Permissions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Edit any post</td>
<td>Non-editing teacher, Teacher, Manager</td>
</tr>
<tr>
<td>Export whole discussion</td>
<td>Non-editing teacher, Teacher, Manager</td>
</tr>
<tr>
<td>Export own post</td>
<td>Student, Non-editing teacher, Teacher, Manager</td>
</tr>
<tr>
<td>Export post</td>
<td>Non-editing teacher, Teacher, Manager</td>
</tr>
<tr>
<td>Initial subscription</td>
<td>Student, Non-editing teacher, Teacher</td>
</tr>
</tbody>
</table>
Forum type activity export example

Go into an existing forum and click on any discussion:

If we are allowed to export a whole discussion

If we are allowed to export this post (either own posts, or others' posts)
Export forum post using Leap2A format (could use HTML format as well)
Forum type activity export example

Have a look at the export details and continue if everything is ok.
Forum type activity export example

If everything goes ok, you can return to the forum discussion or continue to your Mahara portfolio, to have a look at your newly imported content.
Export result in Mahara (using Leap2A)

Data imported from Leap2A export from Moodle for

Entries imported from a LEAP export, that were not able to be imported elsewhere

This post should be exportable

This post should be exportable
by Admin User - Monday, 28 February 2011, 05:43 PM

In fact, we should be able to export the whole discussion.

Posted on Thursday, 04 November 2010, 10:30 PM

1 post
Questions?