

Drupal

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Drupal telepítés

A Drupal aktuális verzióját az alábbi link segítségével lehet letölteni:

<https://ftp.drupal.org/files/projects/drupal-8.7.7.tar.gz>

A letöltött tar.gz állományt tömörítsük ki a saját gépünkön. Miután a kitömörítettük, a mappa tartalmát feltölthetjük a tárhelyünkre.

A PWS-en található tárhelyünkhöz a SFTP segítségével tudunk kapcsolódni.

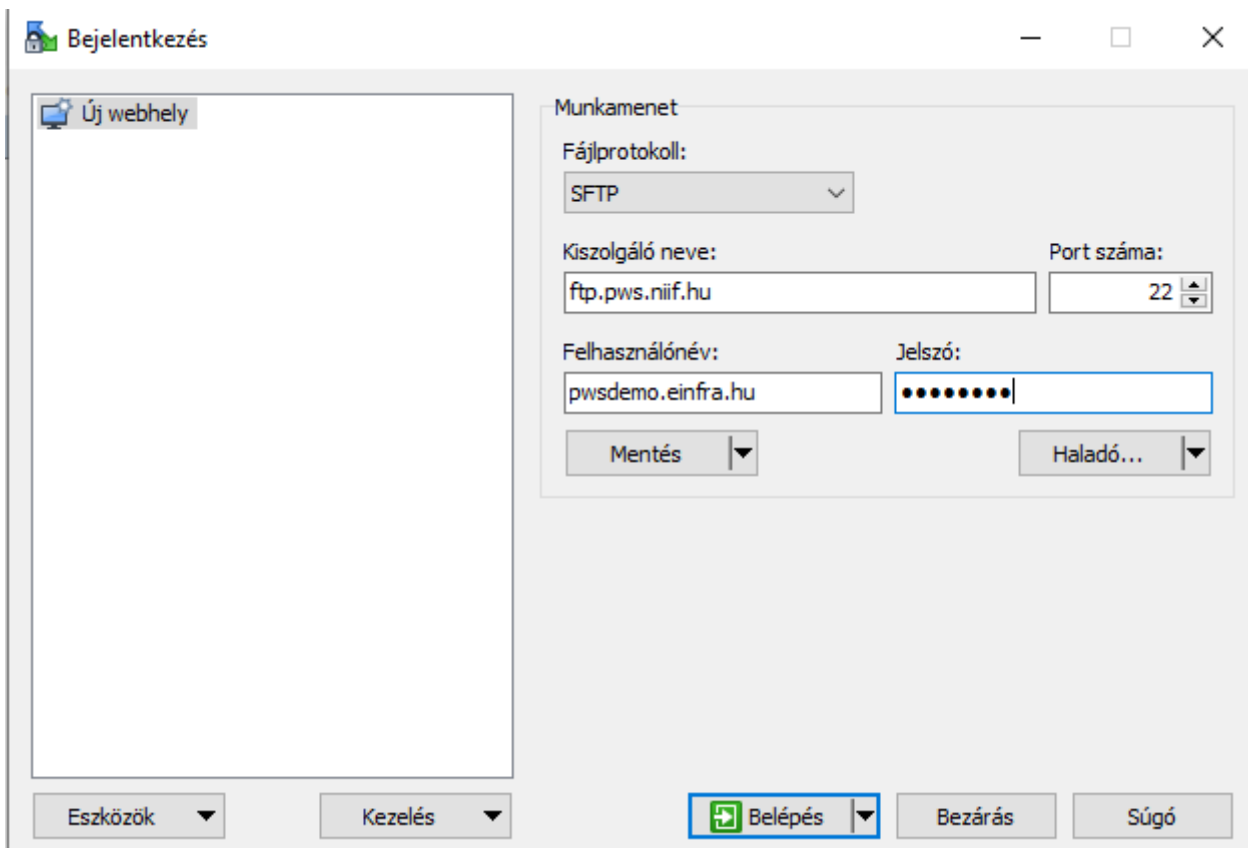
Windows operációs rendszer esetén pl. :WinSCP - <https://winscp.net/eng/download.php>

Szükséges adatok:

SFTP host: ftp.pws.niif.hu

SFTP user: < felhasználói név >

SFTP password: < jelszó >



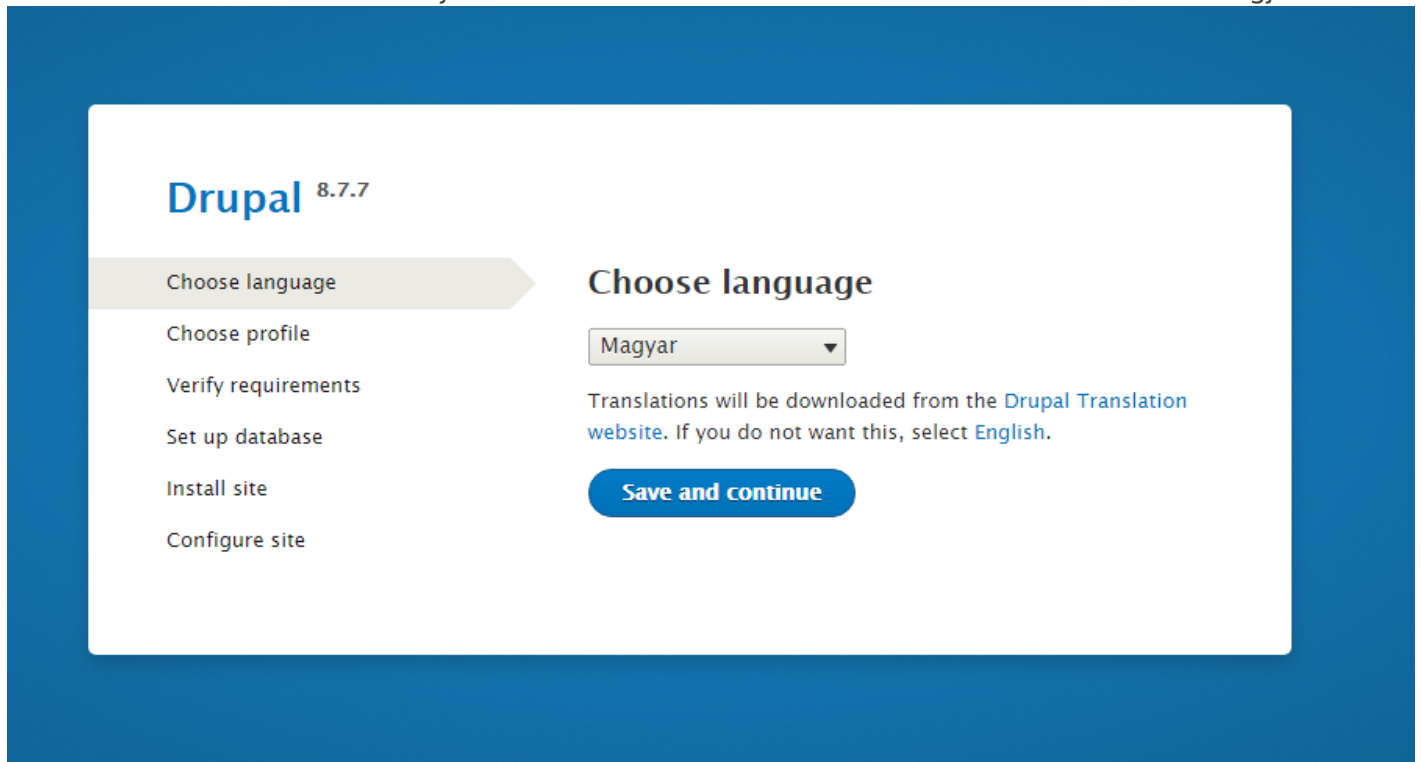
A csatlakozás során fogadjuk el, a kiszolgáló kulcsának hozzáadását a gyorsítótárhoz.

Amennyiben sikeresen csatlakoztunk az alábbi mappa szerkezetet láthatjuk:

Név	Méret	Módosult	Jogok	Tulaj
..		2019. 09. 18. 10:03:50	rxr-r-x	root
cgi-bin		2019. 09. 18. 10:03:50	rxr-r-x	root
etc		2019. 09. 18. 10:03:50	rxr-r-x	5487
fcgi		2019. 09. 18. 10:03:50	r-r-r-x	5488
include		2019. 09. 18. 10:03:50	rxr-r-x	root
log		2019. 09. 18. 10:03:50	rxr-r-x	root
protected		2019. 09. 18. 10:03:49	r-r-r---	33
tmp		2019. 09. 18. 10:03:50	rxr-r-x	root
www		2019. 09. 18. 10:03:50	rxr-r-x	root

A korábban letöltött és kicsomagolt Drupal fájlokat másoljuk fel a **www** könyvtárba.

Miután feltöltésre kerültek a fájlok a domain név beírása után az alábbi oldalnak kell megjelennie:



Válasszuk ki az **English** opciót majd kattintsunk a **Save and continue** opcióra.

Drupal 8.7.7

Choose language

Choose profile

Verify requirements

Set up database

Install site

Configure site

Select an installation profile

- Standard
Install with commonly used features pre-configured.
- Minimal
Build a custom site without pre-configured functionality.
Suitable for advanced users.
- Demo: Umami Food Magazine (Experimental)
Install an example site that shows off some of Drupal's capabilities.

Save and continue

Válasszuk ki a **Standard** opciót.

Megjegyzés: Ha a követelmények ellenőrzése során azt a hibát kapjuk vissza, hogy a **settings.php** nem létezik.

Drupal 8.7.7

Choose language

Choose profile

Verify requirements

Set up database

Install site

Configure site

Requirements problem

Errors found

✘ SETTINGS FILE

The *Settings file* does not exist.

The Drupal installer requires that you create a `./sites/default/settings.php` as part of the installation process. Copy the `./sites/default/default.settings.php` file to `./sites/default/settings.php`. More details about installing Drupal are available in [INSTALL.txt](#).

OK

Az alábbi fájlt nevezzük át: **protected/www/sites/default/default.settings.php** -> **settings.php**-ra. (Az átnevezés előtt ajánlott egy másolat készítése a **default.setting.php** fájlról)

Név	Méret	Módosult	Jogok	Tula
..		2019. 09. 18. 15:35:14	rw-rw-r-x	5487
files		2019. 09. 18. 15:42:04	rw-rw-r-x	5488
default.settings.php	31 KB	2019. 09. 04. 12:26:35	rw-rw-r--	5487
default.services.yml	7 KB	2019. 09. 04. 12:26:35	rw-rw-r--	5487

A folytatáshoz görgessünk le az oldal aljára és kattintsunk a **try again** szövegre. A hibajelzés eltűnt, maradt egy Warning-ra felhívó szöveg. Ezt figyelmen kívül hagyhatjuk, görgessünk le ismét az oldal aljára és kattintsunk a **continue anyway** szövegre.

A következő lépésnél az adatbázis beállítása következik

Database type *

- MySQL, MariaDB, Percona Server, or equivalent
- PostgreSQL

Database name *

Database username *

Database password

▼ ADVANCED OPTIONS

Host *

Port number

Table name prefix

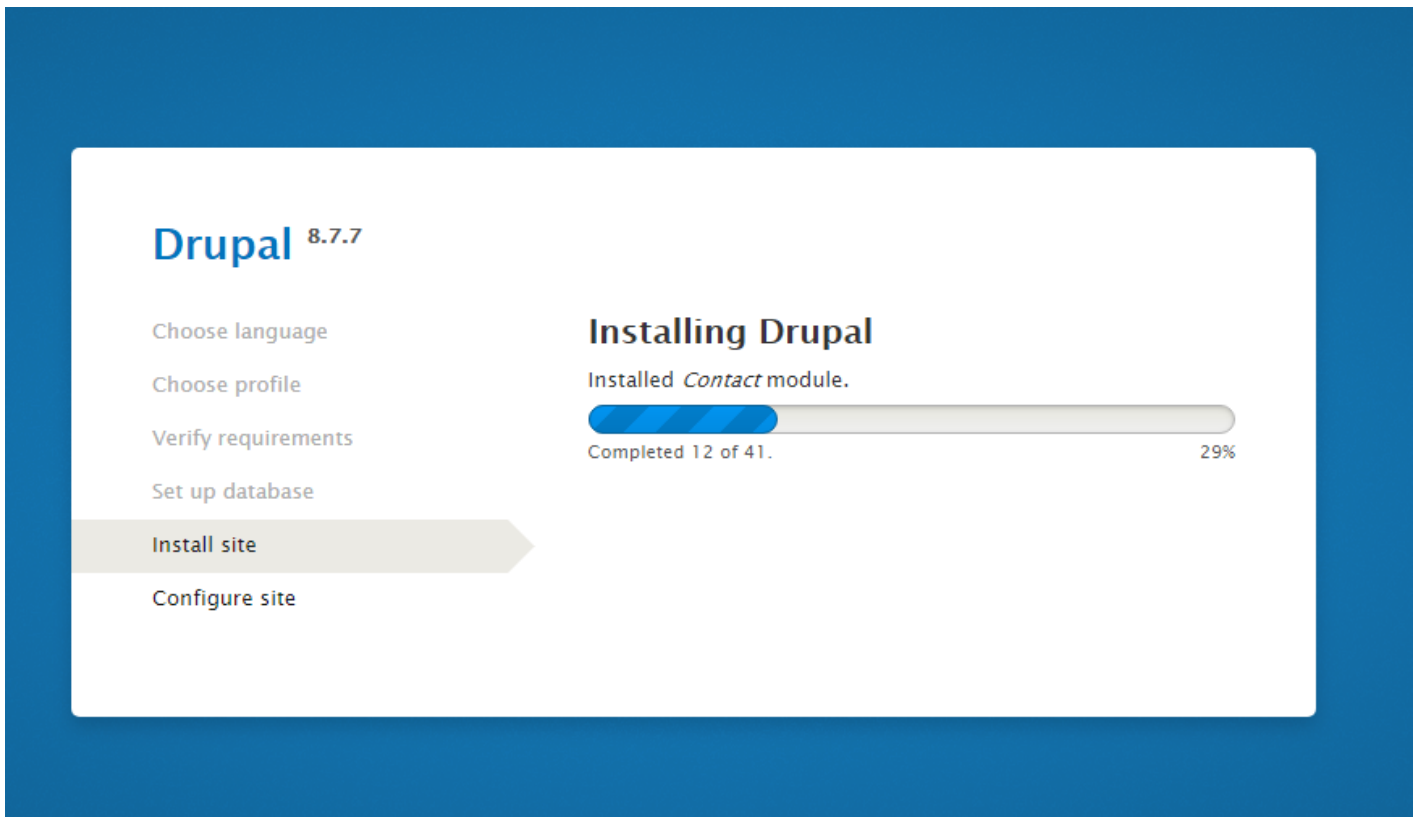
If more than one application will be sharing this database, a unique table name prefix - such as *drupal_* - will prevent collisions.

Save and continue

A Database type-nál válasszuk ki a MySQL, MariaDB, Percona Server, or equivalent lehetőséget. Töltsük ki az adatok. Az adatbázis szerver az elérését az Advanced options-ra kattintva tudjuk megtenni. További beállítások elvégzésére is lehetőségünk van.

A table name prefixet nem muszáj kitölteni.

Ha ezekkel meg vagyunk kattintsunk a **Save and continue** gombra. Elkezdődik a Drupal telepítése.



Utolsó lépésként jön az oldal beállítása. Itt tudjuk megadni az oldalunk nevét, email címet, adminisztrátor név jelszó, régió beállítás.

Drupal 8.7.7

Choose language

Choose profile


Verify requirements

Set up database

Install site

Configure site

Configure site

 All necessary changes to *sites/default* and *sites/default/settings.php* have been made, so you should remove write permissions to them now in order to avoid security risks. If you are unsure how to do so, consult the [online handbook](#).

SITE INFORMATION

Site name *



Site email address *

Automated emails, such as registration information, will be sent from this address. Use an address ending in your site's domain to help prevent these emails from being flagged as spam.

SITE MAINTENANCE ACCOUNT

Username *

Confirm password *

Passwords match: **yes**

Recommendations to make your password stronger:

- Add punctuation

Email address *

REGIONAL SETTINGS

Default country

Default time zone

UPDATE NOTIFICATIONS

- Check for updates automatically
- Receive email notifications

When checking for updates, anonymous information about your site is sent to [Drupal.org](http://drupal.org).

Save and continue

Ha megvagyunk akkor **Save and continue** gombra kattintunk. Egy kis várakozás után az oldalunk telepítése elkészül.

Telepítés után:

Állapot jelentésnél az alábbi hibákkal találkozhatunk: <http://sajtdomain/admin/reports/status>

Errors found

✘ CONFIGURATION FILES	Not protected <ul style="list-style-type: none">• The directory <code>sites/default</code> is not protected from modifications and poses a security risk. You must change the directory's permissions to be non-writable.• The file <code>sites/default/settings.php</code> is not protected from modifications and poses a security risk. You must change the file's permissions to be non-writable.
✘ TRUSTED HOST SETTINGS	Not enabled <p>The <code>trusted_host_patterns</code> setting is not configured in <code>settings.php</code>. This can lead to security vulnerabilities. It is highly recommended that you configure this. See Protecting against HTTP HOST Header attacks for more information.</p>

a) A settings.php olvasható/írható

Megoldás:

A `/protected/www/sites/default/settings.php` jogosultságát módosítsuk 0444-re,

A default mappa jogosultságát módosítsuk 0555-re.

b) A trusted_host_patterns beállítás nincs még megadva a settings.php fájlban (Ez a hiba az oldal működését nem befolyásolja, csak állandó hibaként jelenik meg a státusznál)

Megoldás:

A /protected/www/sites/default/settings.php fájlban megkeressük a trusted_host pattern részt (kb. 721. sor) majd az ide vonatkozó részt kijelöljük és átmásoljuk a fájl végére.

```
721 | * $settings['trusted_host_patterns'] = [  
722 | *   '^example\.com$',  
723 | *   '^.+\.example\.com$',  
724 | *   '^example\.org$',  
725 | *   '^.+\.example\.org$',  
726 | * ];
```

Ha ezzel végeztünk akkor kikommentezzük és a példában szereplő adatokat kicseréljük a mi domain címünkre, majd az egészet másoljuk a fájl végére.

```
788 | $settings['trusted_host_patterns'] = [  
789 |   '^einfra\.hu$',  
790 |   '^.+\.einfra\.hu$',  
791 |   '^einfra\.hu$',  
792 |   '^.+\.einfra\.hu$',  
793 | ];
```

DrupalShibboleth

Elgondolás

A Drupal saját maga szereti kezelni a felhasználóit - adatbázisban -, de az azonosítás moduláris. A felhasználó beállításai a Drupal saját adatbázisában vannak, a Shibboleth modul csak a felhasználó azonosítóját adja meg.

Felhasználó létrehozása

Az [IdP-nek](#) azonosítania kell tudnia a felhasználót, tehát valamilyen [központi adatbázisban](#) léteznie kell.

Ha egy olyan felhasználó jelentkezik be a Drupalba, aki még korábban nem jelentkezett be (pontosabban ha a Shibboleth-en keresztül megkapott azonosító még nem létezik), akkor a modul létrehoz egy új Drupal felhasználót. A felhasználó jelszava egy olyan véletlenszerűen generált megfelelően hosszú karakter sorozat, amely egyaránt tartalmazhat kis- és nagybetűket, valamint számokat. Alap esetben a felhasználó számára a jelszó változtatása tiltott, így a hagyományos úton (felhasználó név/ jelszó párossal) nem tud. A későbbiekben a jelszó változtatásának joga azonban egyénileg, vagy csortosan kiosztható ezzel engedélyezve a két autentikáció párhuzamos használatát. Néhány felhasználói beállítás kezdeti értéke származhat a Shibboleth-től kapott attribútumokból:

- teljes név
- email cím

(Ez utóbbi funkciót az implementáció nem tartalmazza, ugyanis a különböző Shibboleth beállításoknak megfelelően rendszerenként más információk állnak rendelkezésre. Ennek kezelése a modul jövőbeli fejlesztései közé tartozik.)

A felhasználói attribútumok változtatása az IdP-ben nem terjed át a Drupalra (leszámítva természetesen a felhasználói azonosítót), az Drupalban található attribútumok megváltoztathatók, ha ezt az oldal konfigurációja megengedi.

Az újonnan létrejött felhasználó alap jogosultságokkal rendelkezik, ezután az adminisztrátor további jogokat biztosíthat számára.

Felhasználó törlése

A felhasználót a [központi adatbázisból](#) kell törölni, ezáltal megszűnik a hozzáférése a Drupalhoz. A Drupal azonosítója és beállításai azonban megmaradnak, ami az alábbi következményekkel jár (Vigyázat! Ha korábban engedélyeztük számára a jelszavas belépést, akkor azt külön le kell tiltani!):

- ha újra kiosztják a felhasználó azonosítóját, akkor a régi beállítások lesznek érvényesek
- lehetséges privát üzenetet küldeni a felhasználó email címére
- a törölt felhasználó mindaddig be tud lépni, amíg a Drupal által használt cookie érvényes, ezért célszerű memóriában tárolt cookie-kat használni (ld.: [Drupal modul konfiguráció](#))

A fenti problémákat csak úgy lehet megoldani, ha egy alkalmazás a törölt felhasználók státuszát inaktíválja a Drupalban (és a hasonló elven felépülő többi rendszerben is).

Shibboleth konfiguráció

Be kell állítani a [RequestMap-et](#) az adott virtuális szerver adott könyvtárára, majd az Apache-nak a megfelelő `Directory` vagy `Location` blokkjában [be kell kapcsolni a Shibboleth azonosítást](#).

Info

[Lazy sessiont](#) kell beállítani akkor, ha azt szeretnénk, hogy

- anonymous módon hozzáférhető legyen a Drupal (pl. csak olvasásra)
- az adminisztrátor be tudjon jelentkezni jelszóval.

Bővebben lásd: [Required Session](#)

Drupal Shibboleth modul

Amennyiben lehetővé szeretnéd tenni, hogy a rendszered felhasználói Shibboleth-en keresztül is azonosíthassák magukat, nem kell mást tenned, mint hogy a meglévő Drupal rendszeredhez hozzáadjad a Drupal Shibboleth modul-t (shib_auth).

A Drupal Shibboleth modul angol nyelvű dokumentációja [itt található](#)

Figyelem

A szócikk további része lehetséges, hogy elavult, az [angol nyelvű dokumentáció](#) az érvényes!

Telepítés

1. Telepítsd a **userprotect** modult
 1. Töltsd le a rendszerünknek megfelelő verzióhoz tartozó **userprotect** modult a [project honlapjáról!](#)
 2. Kövesd a modullal együtt érkező README.txt utasításait a telepítéshez!
2. Telepítsd a **shib_auth** modult
 1. Töltsd le a rendszerünknek megfelelő verzióhoz tartozó **shib_auth** modult a [project honlapjáról!](#)
 2. Másold be a tömörítve érkező fájlokat a rendszered **modules/shib_auth** könyvtárába. (Ez elsősorban a <drupal telepítési könyvtára>/modules/shib_auth útvonalon érhető el, azonban néha - főként multisite alkalmazások esetén - ettől eltérő is lehet.)
 3. A portál adminisztrációs felületén keresztül (Administer/Site Building/Modules) engedélyezd a **shib_auth** modult! Amennyiben ezt a rendszer nem engedélyezné, bizonyosodj meg róla, hogy a Drupal verziójához tartozó modult töltötted-e le, valamint hogy a függőségként szereplő modulok be vannak-e már kapcsolva!

Konfiguráció

A modul telepítője elvégzi a szükséges beállítások és módosítások többségét, így neked már nincs sok tennivalód. Az egyetlen elengedhetetlen beállítás a modul (Administer/User management/Shibboleth authentication module settings útvonalon elérhető) adminisztrációs oldalán található, ahol megadható a a WAYF *localhost*-ra mutató útvonala. (például: */Shibboleth.sso/WAYF/NIIF-WAYF*)

Ajánlott a settings.php-ben (pl.: <drupal telepítési könyvtára>/sites/default/settings.php) a cookie-k élettartamát 0-ra csökkenteni. `ini_set('session.cookie_lifetime', 0);`

Használat

A modul működése automatikus. A felhasználók a modul által létrehozott block-ban található url-re kattintva (*lazy-session*) vagy automatikusabn, az oldal betöltése közben (*required session*) autentikálják magukat a hozzájuk tartozó, a szerver által megbízhatónak tartott IdP-nél. A rendszer a apache modul által kapott információk alapján, az első bejelentkezés során létrehoz egy, a felhasználóhoz tartozó Drupal accountot, amihez egy véletlenszerű jelszót társít. Mivel a felhasználó ezt nem ismeri, így ezzel nem, kizárólag Shibboleth-es azonosítás segítségével tud belépni.

Amennyiben engedélyezni szeretnéd egy felhasználónak vagy csoportnak a Shibboleth-es belépésen túl a jelszavas azonosítást **IS**, nincs más dolgod, mint:

- a felhasználónak, vagy csoportnak a jogosultságokat kezelő oldalon engedélyezni a jelszavának átállítását
- majd ezt követően:
 - beállítani neki egy jelszót és ezt közölni vele, vagy
 - rávenni, hogy egy Shibboleth-es belépést követően adjon meg magának egy jelszót.

Admin felhasználó bejelentkezése

Érdeemes egy, a Shibboleth-től elkülönítve kezelt adminisztrátort is létrehoznod (például a telepítés során), hogy a rendszer az IdP-től függetlenül is használható maradjon, vagy hogy például szükség esetén magát a shib_auth modult is el lehessen távolítani.

Mivel a modul kikapcsolja a főoldalon megjelenő **user login** blokkot, így azon keresztül nem lehetséges a username/password alapú belépés. (Ez a blokk opcionálisan visszakapcsolható.) Ahhoz hogy mégis be tudj lépni töltsd be a <Drupal CMS elérhetősége>/?q=user oldalt anélkül, hogy Shibboleth-en keresztül autentikáltad volna magad.

Required session

Lehetőség van arra is, hogy a felhasználók Shibboleth-en keresztüli autentikációját kötelezően megköveteld az oldal valamennyi megtekintése előtt. Ebben az esetben azonban nem lehetséges a nem shib_auth-on keresztüli belépés, így amíg ez a kényszer fenn áll, nem megoldható, hogy adminisztrátorként lépj be.

DrupalShibbolethReadmeDev

Drupal **shib_auth** module enables [Shibboleth](#) authentication for [Drupal CMS](#).

Installation and bootstrapping

Warning

The following documentation assumes that

- You [understand how Shibboleth works](#)
- You have [successfully installed and configured Shibboleth SP](#) on your host running Drupal.

Installing the module

1. Download module source for your Drupal version from the [project page](#).
2. Uncompress archive to the `modules/` directory
3. Enable module at `Administer -> Site building -> Modules`

Compatibility

The module assumes that you use Shibboleth SP 2.x. It's possible to use the module with Shibboleth SP 1.3, but that version is not supported anymore.

Upgrading the module

Figyelem

If you upgrade from 3.x (or previous versions) to 4.x, **you must update the database**.

After overwriting the files in the `modules/` directory, open up

`YOUR_DRUPAL_INSTALLATION/update.php` in your browser and run update for the `shib_auth` module. **This is required to let your user info persist.**

The upgrade script makes slight changes to the database. You only need to run this script once, however running it several times does no harm to your installation apart from showing some SQL errors.

Note

although the upgrade script was designed to be robust, please **back up your database** before upgrading.

Moving from Drupal 6 to Drupal 7

To migrate your working installation to D7, first you must update your module to the latest 4.x version. After that, you can perform the Drupal update.

Get it running

Configuring Shibboleth

You should be familiar with protecting resources with Shibboleth before using this module. (See [Shibboleth Wiki](#) for comprehensive information) Please check that Shibboleth authentication is working for the location of your Drupal installation and all the necessary attributes are exported to the headers. You can enable [DEBUG mode](#) to dump the whole `$_SERVER` array. If you can see Shibboleth attributes there, you're fine.

In Shibboleth there are two modes for protecting resources:

- **Lazy Sessions:** session is only initiated if an application redirects user to the SessionInitiator URL. In this module, it is done by clicking the "*Login with Shibboleth*" link. Anonymous access is possible as well as using other authentication methods. This is what you want to use for a CMS that contains *public information*.
 - Detailed description of [lazy sessions](#) in Hungarian.
- **"Strict" Sessions** (normal sessions): users can only access Drupal content if they have a valid Shibboleth session. In this case, no anonymous access can be granted (not even read-only) and you can not use any auxiliary authentication methods. Most of the advanced features don't work with strict sessions. You should not use this unless you want to protect all the information in the CMS from viewing.

Note

after enabling "strict" sessions, you won't be able to login with admin user. [Read on further](#) how to give your own user administrator rights.

Example Shibboleth configuration

Note

this example uses lazy sessions.

/etc/shibboleth/shibboleth2.xml snippet:

```
<RequestMapper type="Native">
  <RequestMap applicationId="default">
    <Host name="your.host.name">
      <Path name="location_of">
        <Path name="your_Drupal">
          <Path name="installation" authType="shibboleth" requireSession="false" />
        </Path>
      </Path>
    </Host>
  </RequestMap>
</RequestMapper>
```

Apache config file snippet (ie. `/etc/apache2/sites-enabled/your.host.name`), or you can even use `.htaccess` without the `<Location>` tags):

```
<Location /location_of/your_Drupal/installation>
  AuthType Shibboleth
  ShibRequireSession Off
  ShibUseHeaders On
  require shibboleth
</Location>
```

DEBUG mode

If you enable DEBUG mode on the module configuration interface, you can dump the **\$_SERVER**, **\$_SESSION** arrays and additionally the **\$user** object, if the user is logged in. This mode shows you all the available attributes and helps you diagnosing possible Shibboleth attribute problems.

- Keep in mind that some users might have a specific attribute while others don't.

Debug path prefix

Leave it empty, if you want to display debug information on every page. Enter the string `user/` (mind the trailing slash!) for displaying DEBUG messages only on paths below `user/`

Adding a prefix is useful, if you want to enable debugging on an online drupal installation without littering all of the pages with the debugging information. You can set it to a non-existent node as well, in this case, the information will be displayed over the built-in 404 page.

Setting Shibboleth parameters for the module

Handler settings

If you are using lazy sessions, you have to define the Shibboleth SessionInitiator to which the user should be directed when she clicks on "Login with Shibboleth". The SessionInitiator can be called on a special URL which depends on your Shibboleth configuration.

If your `/etc/shibboleth/shibboleth2.xml` is something like this:

```
<Sessions lifetime="28800" timeout="3600" checkAddress="false"
  handlerURL="/Shibboleth.sso" handlerSSL="false"
  exportLocation="http://localhost/Shibboleth.sso/GetAssertion"
  idpHistory="false" idpHistoryDays="7">
  <SessionInitiator type="Chaining" Location="/Login" isDefault="true" id="Intranet"
    relayState="cookie" entityID="https://idp.example.org/shibboleth">
    <SessionInitiator type="SAML2" defaultACSIndex="1" template="bindingTemplate.html"/>
    <SessionInitiator type="Shib1" defaultACSIndex="5"/>
  </SessionInitiator>
  <!-- other things -->
  <LogoutInitiator type="Chaining" Location="/Logout" relayState="cookie">
    <LogoutInitiator type="SAML2" template="bindingTemplate.html"/>
    <LogoutInitiator type="Local"/>
  </LogoutInitiator>
  <!-- other things -->
</Sessions>
```

Then your

- **Login URL** is: `http(s)://your_fully_qualified_domain_name/Shibboleth.sso/Login`
- **Logout URL** is: `http(s)://your_fully_qualified_domain_name/Shibboleth.sso/Logout`

Note

Most common errors are (please check Shibboleth documentation):

- using *http* when your Shibboleth SP is configured for *https* only (either by Apache settings or the *handlerSSL* parameter)
- you want to use another SessionInitiator (for example with Discovery Service), such as

`/DS`

Attribute settings

Specify here the `$_SERVER` headers to look up the user's username and e-mail address. Please check **DEBUG** mode to look for the available headers. If you can not find the desired attribute, then something is wrong with your IdP-SP attribute release flow.

Both fields can have the same value, if you wish.

Redirecting authenticated users to HTTPS

It's a common problem if Shibboleth SP is configured on HTTPS only (`handlerSSL="true"`), while the site also works on plain HTTP. By using *Force HTTPS on login* feature, you can redirect your users to HTTPS at login time. This way you can have your anonymous users view your site unencrypted (which saves some CPU cycles), but once they login, they get redirected to HTTPS (which is the only secure use of Shibboleth SP).

Note

If you don't see Shibboleth attributes in DEBUG although you have double checked that you have set `AuthType shibboleth`, `require shibboleth` in your `.htaccess` file, you most probably need to turn this feature on.

Understanding features

Automatic user creation

Drupal CMS requires all users to be in its internal SQL database. If the module detects that no user exists in the database with the received Shibboleth user identifier, it creates a new (Drupal) user.

Drupal needs 3 pieces of information to create a new user:

- username
- e-mail address
- password

The module by default uses the username and e-mail address taken from the `$_SERVER` headers, see [Attribute settings](#bkmrk-attribute settings) right above. On new user creation a random password is generated. This can be overwritten by the user unless you [disallow it](#) by the userprotect module.

Note

if the user overwrites the password, she can log in with her username and the new password.

Using custom values

You may want to let your users to define their own Drupal usernames and e-mail addresses other than what was received from the IdP. If either *User-defined usernames* or *User-defined e-mail addresses* option is set, new users are presented a form to enter data at the first logon.

Info

- The module ensures that neither values are in use by existing users.
- If you enable and later disable the options, the two behave differently. On subsequent logons:
 - the user-defined username is **preserved**
 - e-mail address gets **rewritten** (or the user gets a fatal error if the IdP does not provide the data)
- Even if you enable user-defined usernames, the **IdP must send a unique identifier** which must be in the server variable defined for username. This feature just enables you to use opaque identifiers such as `eduPersonTargetedId`
- User-defined e-mail addresses are not verified, only well-formedness is checked

Working with federated identifiers

If you enable the option *User-defined usernames* in the module configuration, every new user is presented a form to specify a Drupal username. This way you can work with opaque (federated) identifiers such as `eduPersonTargetedId`, as long as it appears in the `$_SERVER` variable holding the username. The only limitation is that the federated identifier cannot be longer than 255 characters, however it can contain characters otherwise not allowed in Drupal account names (such as exclamation mark, etc).

Disallowing password change

If you don't want to let your users to change passwords and log in with it, you may want to disallow password change.

1. Install Drupal [User Protect module](#)
2. At Administer -> User management -> User Protect -> Protected roles tab check **password** for the *authenticated user* role.
3. At Administer -> Permissions -> userprotect module: uncheck **change own password** for *authenticated user*
4. Log in with a normal account, go to "My account" -> Edit. You shouldn't see the possibility for changing password; except for the case when the user has user administrator rights.

Administering Drupal with strict sessions

If you use strict sessions, you can not log in with a password. You need to grant your own user administrator rights to administer the CMS.

1. Enable Shibboleth protection
2. Login with your own user credentials, so that your Drupal user profile is created
3. Disable Shibboleth protection
4. Login as 'admin', grant your own user 'Administrator' rights.
5. Enable Shibboleth protection
6. Login with your own credentials, you should have 'Administrator' rights now.

Pre-creating users

Versions before 4.0 allowed pre-creating users without any tweaks; if the username matched, the user was logged in.

Since 4.0 the module only logs in users who exist in `{shib_authmap}` and the update script only takes care of users tagged with 'shib_auth' in `{authmap}`. When there is no mapping in the `{shib_authmap}`, a new user is attempted to be created, which fails because of the mail being duplicated. So what was accidentally working with pre-created users, do not work anymore with 4.0.

To pre-create users, you should first create the Drupal users in your preferred way (either by using the administration interface or by direct SQL query), and then you **MUST** manually run the following **three queries**:

```
INSERT INTO shib_authmap (uid, targeted_id)
  SELECT uid, name
  FROM users
  WHERE uid > 1 AND (uid) NOT IN
    (SELECT uid
     FROM shib_authmap);

INSERT INTO authmap (uid, authname)
  SELECT uid, targeted_id
  FROM shib_authmap
  WHERE (uid) NOT IN
    (SELECT uid
     FROM authmap);

UPDATE authmap SET module = 'shib_auth'
  WHERE (uid) IN
    (SELECT uid
     FROM shib_authmap);
```

Note

These queries add all your existing users to `shib_authmap` with their usernames and make sure that your `authmap` table contains all of the user entries. You should optimize these queries if you have a large number of users.

Figyelem

You should repeat these queries each time after you add pre-created users.

Role assignment

It's possible to assign roles to users based on their Shibboleth attributes.

An assignment rule is made of three parameters:

- **\$_SERVER** header name: name of the Shibboleth-derived attribute
- **Value regexp**: regexp applied to (all) the value(s) of the Shibboleth-derived attribute
- **Role(s)**: checklist of roles to be assigned to the matching users

Dynamic rules (default)

Dynamic rules add roles to the user, but **do not save them to the user's profile**. This means that

- the roles assigned by dynamic rules are **NOT displayed on the user page**, even though the permissions assigned to the role are in effect
- the roles assigned by dynamic rules are **automatically revoked** if the Shibboleth attributes change (ie. `eduPersonAffiliation` changes from `student` to `alum`),
- thus if the user logs in by other means than Shibboleth, the rule will not be triggered, so the roles will not be assigned.

Additional roles can be assigned statically to the user (as an individual) by the administrator as normally. Every logged in user gets the role `Authenticated user` automatically.

Sticky rules

On the other hand, sticky rules do **save the roles to the user's profile**. Thus

- the roles assigned by sticky rules are displayed on the user page,
- the roles are not revoked automatically by the module,
- the roles will be in effect regardless of the login procedure.

User profile mapping

From the 7.x-4.2 version (D6 is not supported) it is possible to define a mapping between Shibboleth attributes and Drupal Fields. You must have the *Field UI* and the *Shibboleth profile fields* modules enabled to use this functionality. Unlike other features of the module, this mapping is configured together with the field definition.

Go to *Administration » Configuration » People » Account settings » Manage fields* (`admin/config/people/accounts/fields`) and create a new field or edit an existing one. The Shibboleth mapping is available on the Field Edit form and can be used in three ways:

- *Disabled*: no mapping (this is the default);
- *Initial value from Shibboleth, later editable by User*: the value of the mapping is only assigned to the field if the field has no values;
- *Always update value on User login, not editable by User*: the field is updated on every login.

You can use the values of the server variables by referring to them with square brackets like `[sn]`. You can reference multiple server variables in one mapping. Anything that is not matched to a server variable will be treated as string and copied to the value of the field. The server variable match is case insensitive.

As an example, consider the user's request containing the following server variables (regardless of being set by Shibboleth or by something else):

```
[givenName] -> John
[sn]         -> Doe
[email]      -> jdoe@example.com
```

The following mappings would produce the results as indicated:

```
[sn], [givenName] <[email]> Doe, John jdoe@example.com [firstName] [sn] [firstname] Doe
(note the mistaken header name)
```

Account linking

There might be cases when you have a number of existing users and you want them to (optionally) log in through the federation. If you enable **account linking**, a user can add her SSO login to her existing Drupal account. The process of adding an SSO login -> Drupal account association is the following (all steps are performed by the user):

1. Login to Drupal (with username/password)
2. Go to `My account -> Edit`
3. Click on `Link this account to Shibboleth!`
4. Authenticate with your IdP

From this point the user can choose to login either with Shibboleth or with username/password. This feature can also be useful for users switching home organizations.

Info

- One Drupal account can be linked to more than one federated unique identifier, however
- One federated identifier can only be linked to a single Drupal account
- Nobody can link to *admin* or *Anonymous user*
- If the administrator disables this feature, no new associations can be stored. Existing associations remain in effect.
- On a new user logon, the one cannot choose the Drupal username of another user (when *user-defined usernames* is active). For account linking, the user must be already logged in.
- Currently account linking link is not displayed if the user has been logged in using Shibboleth. If you want to support users with multiple federated identities, please file a feature request.

Figyelem

Dynamic roles are roles based on server variables, not users. These may well be different on username/password logon and Shibboleth logon.

Logging out

Session expiry

Enable the option "*Destroy Drupal session when the Shibboleth session expires*", if you want to force logout the users without a valid Shibboleth session. (This only applies to lazy sessions, otherwise it is the webserver what ensures that you have a valid session.)

Info

Keep in mind if you leave this option off:

- if the Shibboleth session is lost, assigned dynamic roles are lost, too
- Shibboleth session might get lost if you use a clustered SP without a central session cache
- **Never ever leave this option off if you want support Single Logout.** Otherwise the user will remain logged in to Drupal even after doing single (global) logout.

URL to redirect to after logout

Define an URL here, where you want the user to be navigated after logout. The URL can be absolute or relative to the server base url. The relative paths will be automatically extended with

the site base URL.

SAML2 Logout

At the moment, Shibboleth2 SP supports SAML2 logout while the Shibboleth2 IdP does not. It has a consequence that (if you have a standard Shibboleth2 installation), you will get a Shibboleth error message on logout, like this:

```
Global Logout
```

```
Status of Global Logout: Identity provider does not support SAML 2 Single Logout protocol.
```

You can avoid this message by commenting out SAML2 global logout initiator from `/Logout` handler in `/etc/shibboleth/shibboleth2.xml`:

```
<!-- LogoutInitiators enable SP-initiated local or global/single logout of sessions. -->
<LogoutInitiator type="Chaining" Location="/Logout" relayState="cookie">
  <!-- The following line should be commented out to make Drupal logout work,
        as long as your IdPs do not support SAML2 logout -->
  <!--LogoutInitiator type="SAML2" template="bindingTemplate.html"/-->
  <LogoutInitiator type="Local"/>
</LogoutInitiator>
```

User consent

In certain scenarios you are only allowed to store personal data if the user accepted some kind of legal agreement such as the Terms of Use or the Privacy Policy.

When a new user arrives, she gets a screen with a link to the legal document and a checkbox. This page also contains the user's name and the e-mail address. Personal data required for login are stored only if the user accepts the agreement. If it's allowed by the administrator, the user might set [custom values](#) for those attributes.

If the document changes, the administrator might increment the version. This case all users are forced to accept the new version of the agreement before logging in.

Note

Version matching is an exact match, so the user must accept exactly the same version what was specified by the administrator

Personal data handled by the module

- username
- user's e-mail address
- user's targeted identifier(s) (what is sent by the IdP, if different from username), along with a mapping to the Drupal username
- Identity Provider(s) that identified the user
- random password (this might not be considered personal data)
- time of the registration

Advanced SAML2 features

SAML2 defines several properties of the authentication request message which may affect the authentication performed by the IdP.

Warning

Be careful when using these options.

IdPs that do not support these features might signal an error instead of performing any kind of authentication of the user. Or might show errors *after* authenticating the user. Some kind of authentication handlers (ie. HTTP Basic Auth) will never work even if the IdP software is capable of handling these properties.

isPassive

If `isPassive` is set, then the user is redirected to the IdP or to the Discovery Service in advance, but neither of them are allowed to take over the control of the user interface (such as performing any visible authentication). If authentication (or IdP selection) can not be performed silently, an error is returned, which is then handled by the module.

By using this option, you can auto-login users who are already logged in to the IdP even if you are using lazy sessions. If auto-login can not be performed, the user returns to Drupal unauthenticated without seeing any error message.

Figyelem

You need to instruct Shibboleth to redirect errors back to Drupal to handle passive authentication failures. This is done by setting `redirectErrors` parameter in the RequestMap. See [Shibboleth wiki](#) for details.

IMPORTANT: current implementation does not handle any errors except for NoPassive error. This means, that on every possible Shibboleth SP error you will get an unauthenticated Drupal page instead of a Shibboleth error page.

Note

this feature requires JavaScript.

forceAuthn

This feature requires reauthentication of the user at the IdP even if she is having an SSO session there. Just like `isPassive`, it's not generally supported by authentication handlers.

In general, you should never mix **isPassive** and **forceAuthn**. The standard states that in this case, the IdP must reauthenticate the user without visibly taking control of the user interface. It's up to you, how you interpret it...

Non-implemented features

There are several other SAML features which are not yet implemented, because there seems to be very little practical interest for them. Please file a feature request if you really need them, but before doing so, please, spend a little time on thinking how things should really work.

- **AuthnContextClass**: the SP can request some specific authentication context from the IdP.
- **NameID management**: the IdP can request to change the user's NameID (targeted identifier) or to remove it.
- **Logout notification**: this is a Shibboleth2 feature, not a SAML one. You generally do not need this, because you can terminate the Drupal session on Shibboleth session expiry. This workaround has the disadvantage that the module will not be notified at the time when the user was logged out, only on the next page refresh.

Change log

Version 3.0 -> 3.1

If you need documentation for 3.0, please [use the previous version of the documentation](#)

Release notes

Version 4.0

Bug fixes

- The module now works with caching enabled

- Code refactoring

New features

- Allow specifying Drupal username, thus support opaque identifiers
- Support for sticky rules (roles saved permanently to the users' profile)
- Basic support for account linking
- Basic support for getting user consent on personal data
- Support for isPassive and forceAuthn session initiation
- Support for redirecting users to HTTPS on login

Drupal Shibboleth module

Drupal **shib_auth** module enables [Shibboleth](#) authentication for [Drupal CMS](#).

Warning

This document is written for module version 3.3-x. Please consult the [Change log](#) for the revisions of this document for the previous releases.

For documentation about the more recent 4.x version, please read [DrupalShibbolethReadmeDev](#).

Warning

The following documentation assumes that:

- You [understand how Shibboleth works](#)
- You have [successfully installed and configured Shibboleth SP](#) on your host running Drupal.

Installation

1. Download module source for your Drupal version from the [project page](#).
2. Uncompress archive to the `modules/` directory
3. Enable module at `Administer -> Site building -> Modules`

Compatibility

Module is being developed for Drupal 6.x. We have stopped backporting new features to the 5.x branch and Drupal 7 is not yet supported as long as it isn't the stable branch. If you want to contribute to development or porting, please contact **aai AT niif DOT hu!**

Both Shibboleth 1.3 and Shibboleth 2.x are supported, although some features might require Shibboleth 2.x.

Upgrading module

If you are upgrading from the same major version, you only need to overwrite the files within your `modules/shib_auth` directory, then run `update.php`.

Configuration

Configuring Shibboleth

You should be familiar with protecting resources with Shibboleth before using this module. (See [Shibboleth Wiki](#)) Please check that Shibboleth authentication is working for that location and all the necessary attributes are exported to the headers. You can enable [DEBUG mode](#) to dump the whole `$_SERVER` array. If you can see Shibboleth attributes there, you're fine.

In Shibboleth there are two modes for protecting resources:

- **Lazy Sessions:** session is only initiated if an application redirects user to the SessionInitiator URL. In this module, it is done by clicking the "*Login with Shibboleth*" link. Anonymous access is possible as well as using other authentication methods.
 - Detailed description of [lazy sessions](#) in Hungarian.
- **"Strict" Sessions** (normal sessions): users can only access Drupal content if they have a valid Shibboleth session. This case, no anonymous access can be granted (not even read-only) and you can not use any auxiliary authentication methods.

Warning

If you decide to use lazy sessions and you don't want your users to be able to log in with a password, you have to disable changing passwords.

Example Shibboleth configuration

Note: this example uses lazy sessions. Configuration for Shibboleth 1.3 is quite similar.

/etc/shibboleth/shibboleth2.xml snippet:

```
<RequestMapper type="Native">
  <RequestMap applicationId="default">
    <Host name="your.host.name">
      <Path name="location_of">
        <Path name="your_Drupal">
          <Path name="installation" authType="shibboleth" requireSession="false" />
        </Path>
      </Path>
    </Host>
  </RequestMap>
</RequestMapper>
```

```
</Path>
</Host>
</RequestMap>
</RequestMapper>
```

Apache config file snippet (ie. `/etc/apache2/sites-enabled/your.host.name`), or you can even use `.htaccess` without the `<Location>` tags):

```
<Location /location_of/your_Drupal/installation>
  AuthType Shibboleth
  ShibRequireSession Off
  # the following single line is only valid for Shib2
  ShibUseHeaders On
  require shibboleth
</Location>
```

Figyelem

You **MUST** use `ShibUseHeaders On` if you use Shibboleth2 with **mod_rewrite**.

`mod_rewrite` prefixes CGI environment variables with **REDIRECT_**, so you have to instruct Shibboleth2 to use headers instead.

Shibboleth 1.3 always uses headers, therefore the `ShibUseHeaders` directive is invalid with Shibboleth 1.3.

DEBUG mode

If you enable DEBUG mode on the module configuration interface, you can dump the whole `$_SERVER` array. This shows you all the available attributes and helps you diagnosing possible Shibboleth attribute problems. * Keep in mind that some users might have a specific attribute while others don't.

Debug path prefix

Leave it empty, if you want to display debug information on every page. For example use `user/` for display DEBUG messages on paths `user/*`

Adding a prefix is useful, if you want to enable debugging on an online drupal installation without littering all of the pages with the debugging information. Can be set to a non-existent node as well, in this case, the information will be displayed over the built-in 404 page.

Setting Shibboleth parameters for the module

Handler settings

If you are using lazy sessions, you have to define the Shibboleth SessionInitiator to which the user should be directed when she clicks on "Login with Shibboleth". SessionInitiator URL is constituted of the following:

- protocol scheme (`http://` or `https://`)
- host name
- Shibboleth handler URL (usually: `/Shibboleth.sso`)
- 'location' part of the SessionInitiator definition

/etc/shibboleth/shibboleth2.xml snippet:

```
<Sessions lifetime="28800" timeout="3600" checkAddress="false"
  handlerURL="/Shibboleth.sso" handlerSSL="false"
  exportLocation="http://localhost/Shibboleth.sso/GetAssertion"
  idpHistory="false" idpHistoryDays="7">
  <SessionInitiator type="Chaining" Location="/Login" isDefault="true" id="Intranet"
    relayState="cookie" entityID="https://idp.example.org/shibboleth">
    <SessionInitiator type="SAML2" defaultACSIndex="1" template="bindingTemplate.html"/>
    <SessionInitiator type="Shib1" defaultACSIndex="5"/>
  </SessionInitiator>
  <!-- other things -->
</Sessions>
```

For this example, you should have:

- `/Shibboleth.sso` for *Handler URL*
- **HTTPS** or **HTTP** for *scheme*, depending on whether you are using SSL or not
- **/Login** for *WAYF location*

Attribute settings

Specify here the **\$_SERVER** headers to look up the user's username and e-mail address. Please check **DEBUG** mode to look for the available headers. If you can not find the desired attribute, then something is wrong with your IdP-SP attribute release flow.

Both fields can have the same value, if you wish.

Using custom e-mail address

- *Require and use only Shibboleth-provided e-mail address* (default): with this option set, Drupal e-mail address is rewritten with the Shibboleth-provided one on each login. This means that your users can only use the e-mail address which is provided by the IdP. **The IdP is required to send the e-mail address attribute otherwise the user gets a fatal error.**
- *Ask for missing e-mail address*: let the user modify her own e-mail address by editing her Drupal account. If the IdP provides an e-mail address, then that value will be the default, otherwise the user is asked to specify her e-mail address.

Logging out

Session expiry

Enable the option "*Destroy Drupal session when the Shibboleth session expires*", if you want to force logout the users without a valid Shibboleth session. (This only applies to lazy sessions, otherwise you are always having a Shibboleth session.)

Info

Keep in mind if you leave this option off:

- If the Shibboleth session is lost, all the Shibboleth-derived attributes disappear, therefore the user loses the [assigned Shibboleth roles](#)
 - On the other hand, the roles assigned to the *Drupal account of the user* persist as long as the Drupal session is valid
 - Shibboleth session might get lost if you use a clustered SP without a central session cache

URL to redirect to after logout

Define an URL here, where you want the user to be navigated after logout. The URL can be absolute or relative to the server base url. The relative paths will be automatically extended with the site base URL.

SAML2 Logout

At the moment, Shibboleth2 SP supports SAML2 logout while the Shibboleth2 IdP does not. It has a consequence that (if you have a standard Shibboleth2 installation), you will get a Shibboleth error message on logout, like this:

Global Logout

Status of Global Logout: Identity provider does not support SAML 2 Single Logout protocol.

You can avoid this message by commenting out SAML2 global logout initiator from `/Logout` handler in `/etc/shibboleth/shibboleth2.xml`:

```
<!-- LogoutInitiators enable SP-initiated local or global/single logout of sessions. -->
<LogoutInitiator type="Chaining" Location="/Logout" relayState="cookie">
  <!-- The following line should be commented out to make Drupal logout work,
        as long as your IdPs do not support SAML2 logout -->
  <!--LogoutInitiator type="SAML2" template="bindingTemplate.html"/-->
  <LogoutInitiator type="Local"/>
</LogoutInitiator>
```

Automatic role assignment

It's possible to assign roles to users based on their Shibboleth attributes.

An assignment rule is made of three parameters:

- **\$_SERVER** header name: name of the Shibboleth-derived attribute
- **Value regexp**: regexp applied to (all) the value(s) of the Shibboleth-derived attribute
- **Role(s)**: checklist of roles to be assigned for the matching users

All these rules are evaluated at module initiation time. That means that revoking/adding a Shibboleth attribute rule will take effect immediately on next page refresh. The same applies when the set of headers is happened to be changed.

Additional roles can be assigned statically to the user (as an individual) by the administrator as normally.

Figyelem

Dynamic roles are not visible on the role administration page and on the user page. These roles are evaluated dynamically and are not saved to the database.

Using module

Automatic user creation

Drupal CMS requires all users to be in its internal SQL database. If the module detects that no user exists in the database with the received Shibboleth user identifier, it creates a new (Drupal) user.

Disallowing password change

There is no way for the module to detect if a user has been deleted from Shibboleth. This simple fact has a number of consequences.

When a user is first logged in, a Drupal account is automatically created for her. Because Drupal requires a password, a random string is generated for password. Normally the user doesn't need it.

Now suppose that your user is about to leave your institution. If she is malicious enough, she can go to the password change form, reset her password to a known one, and even after she is deleted from the IdP, she still can log in to your precious resource with the (now known) password. (Note that it is only achievable with lazy sessions!).

Therefore, if your requirements are such that only Shibboleth-authenticated users can log in, **YOU MUST DISABLE PASSWORD CHANGE** for users.

Steps for disallowing your users to change their passwords:

1. Install Drupal [User Protect module](#)
2. At Administer -> User management -> User Protect -> Protected roles tab check **password** for the *authenticated user* role.
3. At Administer -> Permissions -> userprotect module: uncheck **change own password** for *authenticated user*
4. Log in with a normal account, go to "My account" -> Edit. You shouldn't see the possibility for changing password; except for the case when the user has user administrator rights.

Administrator / password login

If you are using lazy sessions, you can still login with password. If you disabled the username/password login block, append the following to your normal Drupal URL: `/?q=user`

Administering Drupal with strict sessions

If you use strict sessions, you can not log in with a password. It's quite tricky to circumvent it:

1. Enable Shibboleth protection
2. Login with your own user credentials, so that your Drupal user profile is created
3. Disable Shibboleth protection
4. Login as 'admin', grant your own user 'Administrator' rights.
5. Enable Shibboleth protection
6. Login with your own credentials, you should have 'Administrator' rights now.

Change log

Version 3.2 -> 3.3

Module update problem was fixed. From now on one should run update.php on updates.

[Previous version](#)

Version 3.1 -> 3.2

The module now works with caching, but requires disabling and re-enabling.

[Previous version](#)

Version 3.0 -> 3.1

If you need documentation for 3.0, please [use the previous version of the documentation](#)