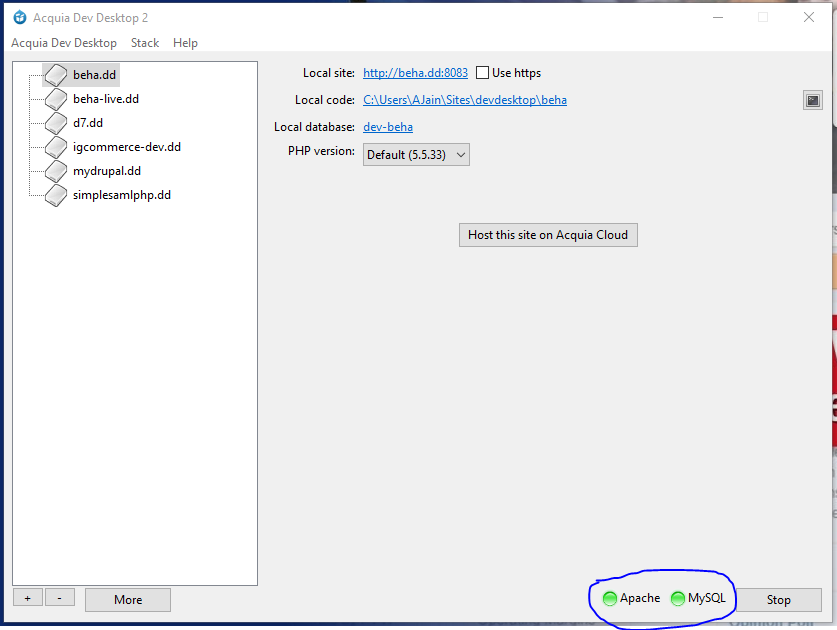
Setting up phpsimplesaml in Acquia Dev Desktop

1. Install AcquiaDevDesktop , using following steps.

<https://docs.acquia.com/dev-desktop/install>

1. Start acquia dev desktop by double clicking its icon, it should start the dev desktop and load the icon on taskbar.



Ensure that apache and mysql is green , which means that apache and mysql

server is running fine.

1. Click on ( **+** ) Plus sign above then click “**New Drupal Site…**” to add new drupal site. Now look for drupal 7.43 version (or whatever laters 7.x version) , and click install link

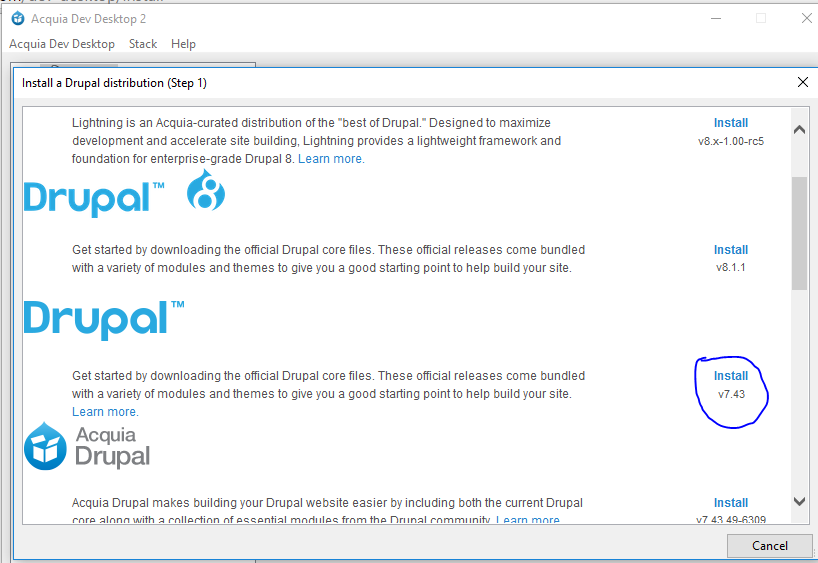
Which will be provided with some popup to fill out some information regarding your site

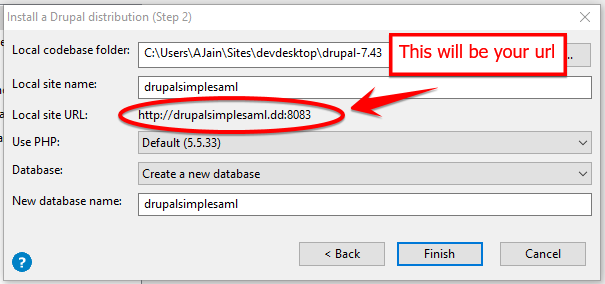
1. **Local Codebase Folder** : Folder where all the drupal files get stored.
2. **Local Site Name** and **Local Site Url** is combined , and changes according to

Site name you put. So choose site domain name , which you want to type in

url when opening this site.

1. **Database** : Create new database to create a new one.
2. **New database name**: choose as per your need.





Click Finish, then Dev desktop will try to download drupal from server in your local installation.

After successful download open the URL : <http://drupalsimplesaml.dd:8083/install.php> or Click

This URL in right hand side panel in ddev desktop. This will open up a drupal setup instance.

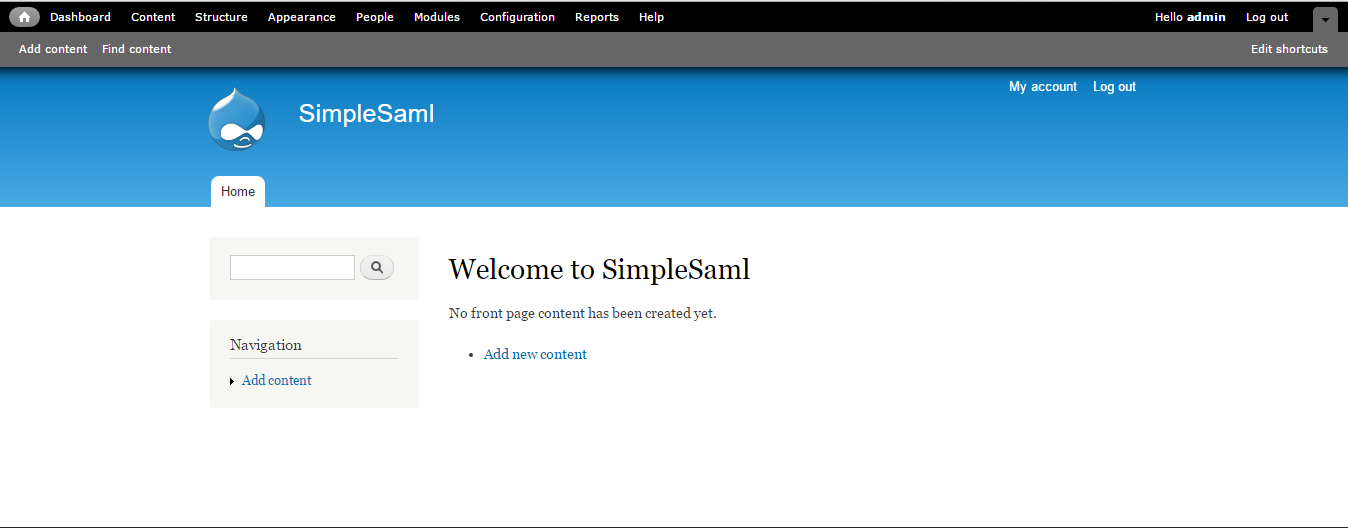
**Step 1:** Select an installation profile :choose **Standard** and click save and continue.

**Step 2:** Choose English and click save and continue. This will start installing

Drupal modules

**Step 3:** Provide informations like sitename, email address username and password in the form provided and click save and continue.

**Step 4:** Click on “**Visit your new site**” to open site.

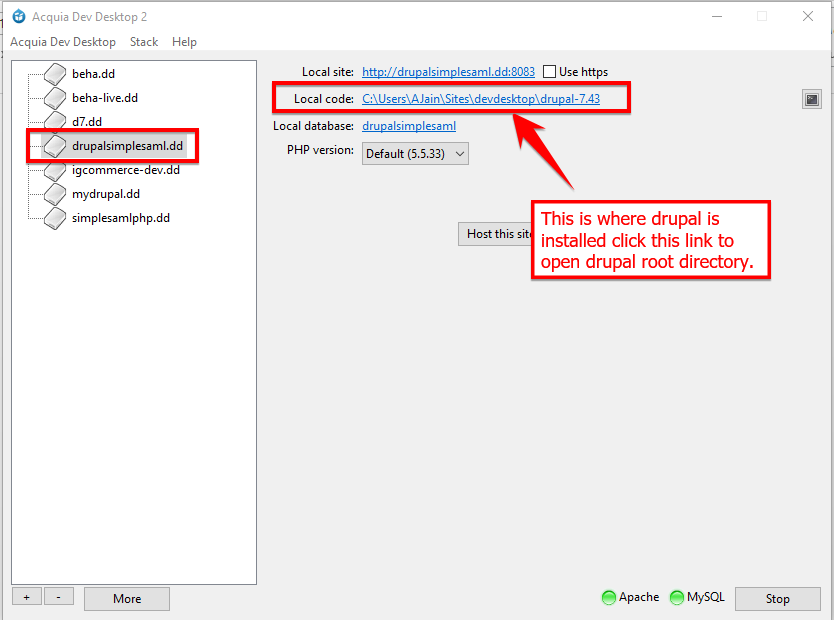


If you see this page that means your drupal is up and running successfully.

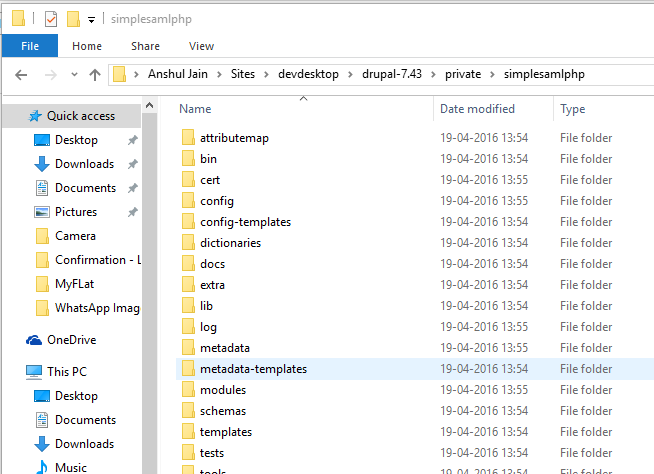
**Installing PHPSimpleSaml Library in Drupal.**

1. Download SimpleSAML from URL : <https://simplesamlphp.org/download>

Extract *simplesamlphp-1.14.3.tar.gz* and rename it as *simplesamlphp*



1. Create a folder “**private**” inside drupal root and paste the extracted **simplesamlphp** folder inside it.



Navigate to folder “C:\Program Files (x86)\DevDesktop\apache\conf” and open vhosts.conf , scroll down to bottom most there you will find entry to your site. In our case.

----------------------------------------------------------------------------------------------------------------

<VirtualHost \*:8083>

ServerName drupalsimplesaml.dd

SSLEngine off

DocumentRoot "C:\Users\AJain\Sites\devdesktop\drupal-7.43"

<IfModule fcgid\_module>

FcgidInitialEnv PHPRC "C:\Program Files (x86)\DevDesktop\php5\_5"

FcgidWrapper "\"C:/Program Files (x86)/DevDesktop/php5\_5/php-cgi.exe\""

</IfModule>

<Directory "C:\Users\AJain\Sites\devdesktop\drupal-7.43">

Options Indexes FollowSymLinks ExecCGI

AllowOverride All

Require local

</Directory>

</VirtualHost>

-----------------------------------------------------------------------------------------------------------------

Modify this file and add two more lines below DocumentRoot

SetEnv SIMPLESAMLPHP\_CONFIG\_DIR "C:\Users\AJain\Sites\devdesktop\drupal-7.43\private\simplesamlphp\config"

Alias /simplesaml "C:\Users\AJain\Sites\devdesktop\drupal-7.43\private\simplesamlphp\www"

**It should look like this now:**

---------------------------------------------------------------------------------------------------------------------------

<VirtualHost \*:8083>

ServerName drupalsimplesaml.dd

SSLEngine off

DocumentRoot "C:\Users\AJain\Sites\devdesktop\drupal-7.43"

SetEnv SIMPLESAMLPHP\_CONFIG\_DIR "C:\Users\AJain\Sites\devdesktop\drupal-7.43\private\simplesamlphp\config"

Alias /simplesaml "C:\Users\AJain\Sites\devdesktop\drupal-7.43\private\simplesamlphp\www"

<IfModule fcgid\_module>

FcgidInitialEnv PHPRC "C:\Program Files (x86)\DevDesktop\php5\_5"

FcgidWrapper "\"C:/Program Files (x86)/DevDesktop/php5\_5/php-cgi.exe\""

</IfModule>

<Directory "C:\Users\AJain\Sites\devdesktop\drupal-7.43">

Options Indexes FollowSymLinks ExecCGI

AllowOverride All

Require local

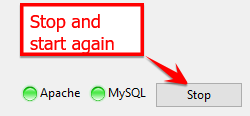
</Directory>

</VirtualHost>

---------------------------------------------------------------------------------------------------------------------------

**NOTE**: You might need to move the above vhost config into the separate host file , because when system restarts this vhost file overwrites with old values. So movie above config to file C:\Program Files (x86)\DevDesktop\apache\conf\extra\ httpd-vhosts.conf.

1. Restart acquia dev desktop again.



Now when you access the URL, <http://drupalsimplesaml.dd:8083/simplesaml> it should show you welcome page, But that’s not it, we still need to make some configurations.

SIMPLESAMLPHP CONFIGURATION

* Generate certificates using below command, When you run below command inside cert folder it will automatically create certificate, directory is : repository/private/simplesamlphp/cert

$ cd cert

$ openssl req -x509 -sha256 -nodes -days 3652 -newkey rsa:2048 -keyout saml.pem -out saml.cr

And provide following information after executing above command.

a. Country name: US

b. State or Province name: Washington

c. Locality name: Everett

d. Organizational name: Fortive

e. Organizational unit name: Information Systems

f. Common name: <use the fully qualified domain name of the web site>

g. Email address: <does not matter but recommend not using a personal email address>

**Fully Qualified Domain Name :** The Url of site for which SSO needs to be implemented without http:// or https:// , for example in our case its **drupalsimplesaml.dd:8083.**

This will create one .pem and .crt file inside cert folder.

* Edit your /private/simplesamlphp/config/config.php file

And update it as per the below config file, change existing variables according to below

To generate salt execute below command in command line and copy paste the generate salt into **secretsalt** :

**Command is**

tr -c -d '0123456789abcdefghijklmnopqrstuvwxyz' </dev/urandom | dd bs=32 count=1 2>/dev/null;echo

// Put this at the top of the config.php file

if (!ini\_get('session.save\_handler')) {

ini\_set('session.save\_handler', 'file');

}

$ps = json\_decode($\_SERVER['PRESSFLOW\_SETTINGS'], TRUE);

$host = $\_SERVER['HTTP\_HOST'];

$drop\_id = $ps['conf']['pantheon\_binding'];

$db = $ps['databases']['default']['default'];

// Make sure you have SSL certificate enabled

// if you would like to use HTTPS protocol.

'baseurlpath' => 'https://'. $host .'/simplesaml/',

'certdir' => 'cert/',

'loggingdir' => 'log/',

'datadir' => 'data/',

'tempdir' => '/srv/bindings/'. $drop\_id . '/tmp/simplesaml',

// Change admin password.

'auth.adminpassword' => '[YOUR\_PASSWORD]',

// Set this to TRUE

'admin.protectindexpage' => true,

// Probably better to set this to TRUE

'admin.protectmetadata' => false,

// Change this salt, find command above to generate salt.

'secretsalt' => '[SALT\_CHANGE\_THIS]',

// Update contact information

'technicalcontact\_name' => 'Contact Name',

'technicalcontact\_email' => 'email@example.com',

'enable.saml20-idp' => true,

'session.cookie.secure' => true,

'store.type' => 'sql',

'store.sql.dsn' => 'mysql:host='

. $db['host']

. ';port='. $db['port']

. ';dbname=' . $db['database'],

'store.sql.username' => $db['username'],

'store.sql.password' => $db['password'],

* Visit <http://drupalsimplesaml.dd:8083/simplesaml>
* Enter the password from the config.php value of the auth.adminpassword parameter.
* Make sure **Checking your PHP installation** on the config page has no red flags. http://drupalsimplesaml.dd:8083/simplesaml/module.php/core/frontpage\_welcome.php
* Make sure **SAML 2.0 IdP** is green
* Next, configure /private/simplesamlphp/config/authsources.php file

$config = array(

'admin' => array(

'core:AdminPassword',

),

'default-sp' => array(

'saml:SP',

// You can get this from ADFS Federation file

// Contact your ADFS administrator

// to obtain this information.

'entityID' => 'urn:drupal:adfs-saml',

'idp' => 'http://fds-evt.danahertm.com/adfs/services/trust',

'NameIDPolicy' => null,

'redirect.sign' => true,

'assertion.encryption' => true,

'sign.logout' => true,

// Generate using openssl, @see example above.

// These are the certs from `/cert` directory.

'privatekey' => 'saml.pem',

'certificate' => 'saml.crt',

// Defaults to SHA1 (http://www.w3.org/2000/09/xmldsig#rsa-sha1)

'signature.algorithm' => 'http://www.w3.org/2001/04/xmldsig-more#rsa-sha256',

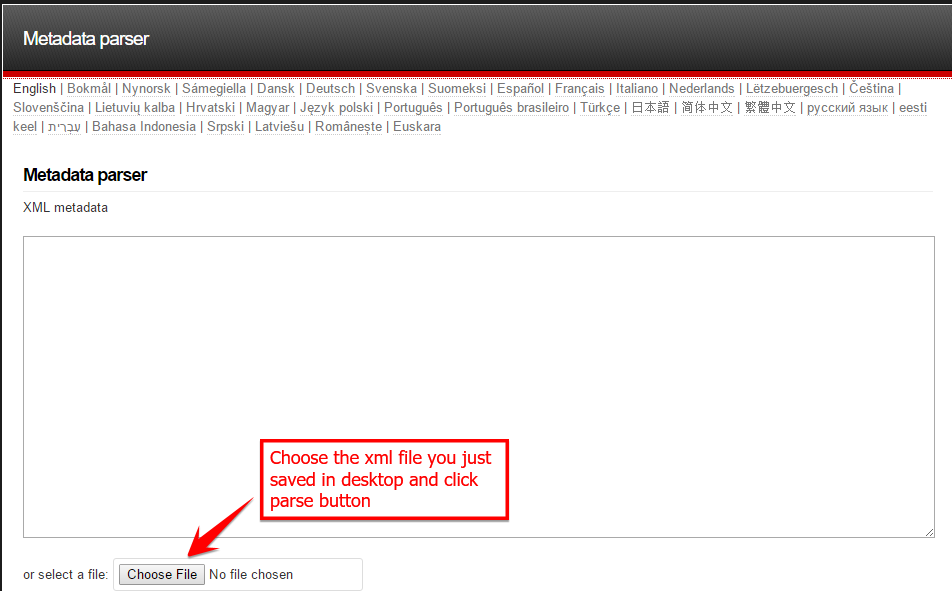
),

);

* Download attached Federation metadata file from the ADFS 

Save this file into desktop.

* Open this url <http://drupalsimplesaml.dd:8083/simplesaml/admin/metadata-converter.php>



* Copy the content generated by generate into respective files saml20-sp-remote.php and saml20-idp-remote.php , Inside /private/simplesamlphp/metadata folder, dont remove <?php tag in process of copy paste.
* Finally you will have to provide information to your ADFS administrator. The SimpleSAMLphp library can generate the federation metadata file for you. Here this the link:

<http://drupalsimplesaml.dd:8083/simplesaml/module.php/saml/sp/metadata.php/default-sp?output=xhtml>

It should look something like this :

<?xml version="1.0"?>

<md:EntityDescriptor xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" xmlns:ds="http://www.w3.org/2000/09/xmldsig#" entityID="urn:drupal:adfs-saml">

<md:SPSSODescriptor protocolSupportEnumeration="urn:oasis:names:tc:SAML:1.1:protocol urn:oasis:names:tc:SAML:2.0:protocol">

<md:KeyDescriptor use="signing">

<ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">

<ds:X509Data>

<ds:X509Certificate></ds:X509Certificate>

</ds:X509Data>

</ds:KeyInfo>

</md:KeyDescriptor>

<md:KeyDescriptor use="encryption">

<ds:KeyInfo xmlns:ds="http://www.w3.org/2000/09/xmldsig#">

<ds:X509Data>

<ds:X509Certificate></ds:X509Certificate>

</ds:X509Data>

</ds:KeyInfo>

</md:KeyDescriptor>

<md:SingleLogoutService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Redirect" Location="http://mydrupal.dd:8083/danahersaml/module.php/saml/sp/saml2-logout.php/default-sp"/>

<md:AssertionConsumerService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST" Location="http://mydrupal.dd:8083/danahersaml/module.php/saml/sp/saml2-acs.php/default-sp" index="0"/>

<md:AssertionConsumerService Binding="urn:oasis:names:tc:SAML:1.0:profiles:browser-post" Location="http://mydrupal.dd:8083/danahersaml/module.php/saml/sp/saml1-acs.php/default-sp" index="1"/>

<md:AssertionConsumerService Binding="urn:oasis:names:tc:SAML:2.0:bindings:HTTP-Artifact" Location="http://mydrupal.dd:8083/danahersaml/module.php/saml/sp/saml2-acs.php/default-sp" index="2"/>

<md:AssertionConsumerService Binding="urn:oasis:names:tc:SAML:1.0:profiles:artifact-01" Location="http://mydrupal.dd:8083/danahersaml/module.php/saml/sp/saml1-acs.php/default-sp/artifact" index="3"/>

</md:SPSSODescriptor>

<md:ContactPerson contactType="technical">

<md:GivenName>admin</md:GivenName>

<md:EmailAddress>anshuljain.php@gmail.com</md:EmailAddress>

</md:ContactPerson>

</md:EntityDescriptor>

Provide this URL to ADFS provider

<http://drupalsimplesaml.dd:8083/simplesaml/module.php/saml/sp/metadata.php/default-sp>

I have contacted **Chris Pierce** for ADFS config settings: **chris.a.pierce@tektronix.com**