


## Ranger Active Directory Authentication Settings

This section describes how to configure settings for Active Directory authentication.



**Note**

In addition to these settings, you may also need to configure the Active Directory properties described in [Configuring Usersync Settings](#).

### 2.4.2.1. AD Settings

The following figure shows the Active Directory (AD) authentication settings, and the table below describes each of these properties.



The screenshot shows a configuration window titled "AD Settings". It contains two input fields. The first field is labeled "ranger.ldap.ad.domain" and has the value "localhost". The second field is labeled "ranger.ldap.ad.url" and has the value "ldap://ad.xasecure.net:389". Both fields have a lock icon and a refresh icon to their right.

Table 3.5. Active Directory Authentication Settings

Configuration Property Name	Description	Default Value	Example Value	Required?
ranger.ldap.ad.domain	Server domain name (or IP address) where ranger-usersync module is running (along with the AD Authentication Service). The default value of "localhost" must be	localhost	example.com	Yes, if Active Directory authentication is selected.

Configuration Property Name	Description	Default Value	Example Value	Required?
	changed to the domain name.			
ranger.ldap.ad.url	The URL and port number where ranger-usersync module is running the AD Authentication Service. The default value is a placeholder and must be changed to point to the AD server.	ldap://ad.xasecure.net:389	ldap://127.0.0.1:389	Yes, if Active Directory authentication is selected.

#### 2.4.2.2. Custom ranger-admin-site Settings for Active Directory (Optional)

The following Custom ranger-admin-site settings for Active Directory authentication are optional.

To add a Custom ranger-admin-site property:

1. Select **Custom ranger-admin-site**, then click **Add Property**.

▼ AD Settings

ranger ldap.ad.domain	<input type="text" value="localhost"/>	🔒	C
ranger ldap.ad.url	<input type="text" value="ldap://ad.xasecure.net:389"/>	🔒	C

▶ LDAP Settings

▶ Advanced ranger-admin-site

▶ Advanced ranger-env

▶ Advanced ranger-ugsync-site

▶ Custom admin-properties

▼ Custom ranger-admin-site

**Add Property ...**

▶ Custom ranger-site

▶ Custom ranger-ugsync-site

▶ Custom usersync-properties

2. On the Add Property pop-up, type the property name in the **Key** box, type the property value in the **Value** box, then click **Add**.

**Add Property** ✕

Type	<input type="text" value="ranger-site.xml"/>	🗑️ 📄
Key	<input type="text" value="ranger.ldap.ad.base.dn"/>	
Value	<input type="text" value="dc=example,dc=com"/>	

The following figure shows the Custom ranger-admin-site settings required for Active Directory (AD) authentication, and the table below describes each of these properties.

The screenshot shows a configuration interface for 'Custom ranger-site'. It contains four rows of settings, each with a label, a text input field, and two status icons (a green plus sign and a red minus sign). The settings are:

- ranger.ldap.ad.base.dn: dc=example,dc=com
- ranger.ldap.ad.bind.dn: cn=adadmin,cn=Users,dc=example,dc=com
- ranger.ldap.ad.bind.password: secret123!
- ranger.ldap.ad.referral: follow

At the bottom left, there is a link that says 'Add Property ...'.

**Table 3.6. Active Directory Custom ranger-admin-site Settings**

Custom Property Name	Sample Values for AD Authentication
ranger.ldap.ad.base.dn	dc=example,dc=com
ranger.ldap.ad.bind.dn	cn=adadmin,cn=Users,dc=example,dc=com
ranger.ldap.ad.bind.password	secret123!
ranger.ldap.ad.referral	follow   ignore   throw

There are three possible values for ranger.ldap.ad.referral: follow, throw, and ignore. The recommended setting is follow.


When searching a directory, the server might return several search results, along with a few continuation references that show where to obtain further results. These results and references might be interleaved at the protocol level.

- When this property is set to follow, the AD service provider processes all of the normal entries first, and then follows the continuation references.
- When this property is set to throw, all of the normal entries are returned in the enumeration first, before the ReferralException is thrown. By contrast, a "referral" error response is processed immediately when this property is set to follow or throw.
- When this property is set to ignore, it indicates that the server should return referral entries as ordinary entries (or plain text). This might return partial results for the search. In

the case of AD, a `PartialResultException` is returned when referrals are encountered while search results are processed.

### 2.4.3. LDAP Authentications Settings

This section describes how to configure LDAP and Advanced ranger-ugsync-site settings for Active Directory authentication.

	<b>Note</b>
	In addition to these settings, you must also configure the LDAP properties described in <a href="#">Configuring Usersync Settings</a> .

#### 2.4.3.1. LDAP Settings

The following figure shows the LDAP authentication settings, and the table below describes each of these properties.



**Table 3.7. LDAP Authentication Settings**

Configuration Property Name	Description	Default Value	Example Value	Required?
ranger.ldap.url	The URL and port number where ranger-usersync module is running the LDAP	ldap://71.127.43.33:389	ldap://127.0.0.1:389	Yes, if LDAP authentication is selected.

Configuration Property Name	Description	Default Value	Example Value	Required?
	Authentication Service.			
ranger.ldap.user.dnpattern	The domain name pattern.	uid={0},ou=users,dc=xasecure,dc=net	cn=ldapadmin,ou=Users,dc=example,dc=com	Yes, if LDAP authentication is selected.
ranger.ldap.group.roleattribute	The LDAP group role attribute.	cn	cn	Yes, if LDAP authentication is selected.

#### 2.4.3.2. Custom ranger-admin-site Settings for LDAP (Optional)

The following Custom ranger-admin-site settings for LDAP are optional.

To add a Custom ranger-admin-site property:

1. Select **Custom ranger-admin-site**, then click **Add Property**.

▼ AD Settings

ranger ldap.ad.domain	<input type="text" value="localhost"/>	🔒	⌵
ranger ldap.ad.url	<input type="text" value="ldap://ad.xasecure.net:389"/>	🔒	⌵

▶ LDAP Settings

▶ Advanced ranger-admin-site

▶ Advanced ranger-env

▶ Advanced ranger-ugsync-site

▶ Custom admin-properties

▼ Custom ranger-admin-site

**Add Property ...**

▶ Custom ranger-site

▶ Custom ranger-ugsync-site

▶ Custom usersync-properties

2. On the Add Property pop-up, type the property name in the **Key** box, type the property value in the **Value** box, then click **Add**.

The screenshot shows a dialog box titled "Add Property" with a close button (X) in the top right corner. It contains three input fields: "Type" with the value "ranger-admin-site.xml", "Key" with the value "ranger.ldap.base.dn", and "Value" with the value "dc=example,dc=com". At the bottom right, there are two buttons: "Cancel" and "Add". The "Add" button is highlighted with a red rectangular border.

The following figure shows the Custom ranger-admin-site settings required for LDAP authentication, and the table below describes each of these properties.

The screenshot displays a configuration page for "Custom ranger-site". It lists four properties, each with a text input field, a green plus icon, and a red minus icon. The properties and their values are: "ranger.ldap.ad.base.dn" with value "dc=example,dc=com"; "ranger.ldap.ad.bind.dn" with value "cn=adadmin,cn=Users,dc=example,dc=com"; "ranger.ldap.ad.bind.password" with value "secret123!"; and "ranger.ldap.ad.referral" with value "follow". At the bottom left, there is a link labeled "Add Property ...".

**Table 3.8. LDAP Custom ranger-admin-site Settings**

Custom Property Name	Sample Values for AD or LDAP Authentication
ranger.ldap.base.dn	dc=example,dc=com
ranger.ldap.bind.dn	cn=adadmin,cn=Users,dc=example,dc=com
ranger.ldap.bind.password	secret123!
ranger.ldap.referral	follow   ignore   throw



There are three possible values for `ranger.ldap.referral`: `follow`, `throw`, and `ignore`. The recommended setting is `follow`.

When searching a directory, the server might return several search results, along with a few continuation references that show where to obtain further results. These results and references might be interleaved at the protocol level.

- When this property is set to `follow`, the LDAP service provider processes all of the normal entries first, and then follows the continuation references.
- When this property is set to `throw`, all of the normal entries are returned in the enumeration first, before the `ReferralException` is thrown. By contrast, a "referral" error response is processed immediately when this property is set to `follow` or `throw`.
- When this property is set to `ignore`, it indicates that the server should return referral entries as ordinary entries (or plain text). This might return partial results for the search.

#### 2.4.3.3. Advanced ranger-admin-site Settings

The following Advanced `ranger-admin-site` properties apply only to LDAP authentication.

Table 3.9. Active Directory Authentication Settings

Property Name	Sample values for LDAP Authentication
<code>ranger.ldap.group.searchbase</code>	<code>dc=example,dc=com</code>
<code>ranger.ldap.group.searchfilter</code>	<code>(member=cn={0},ou=Users,dc=example,dc=com)</code>