How to use RADIUS and LDAP together

Who is this article for?

- Code42 for Enterprise
  - See product plans and features (https://support.code42.com/Terms_and_conditions/Code42_customer_support_resources/Code42_product_plans)
- CrashPlan for Small Business
  - CrashPlan for Small Business, no.
- Code42 for Enterprise, yes.

Link: Product plans and features.

This article applies to versions 6 and 7.

Other available versions:

- Version 5 (https://support.code42.com/Administrator/5/Configuring/How_to_use_RADIUS_and_LDAP_together)
- Version 4 (https://support.code42.com/Administrator/4/Configuring/How_to_use_RADIUS_and_LDAP_together)

Overview

This tutorial explains how to configure your Code42 environment to support the use of RADIUS (http://en.wikipedia.org/wiki/RADIUS) and LDAP (http://en.wikipedia.org/wiki/Lightweight_Directory_Access_Protocol) together. Under this configuration, RADIUS is used for authentication, while LDAP handles other aspects of user management (https://support.code42.com/Administrator/6/Monitoring_and_managing/User_management_with_LDAP_integration), such as user deactivation, role assignment, and organization assignment.

Considerations

Users in your Code42 environment must have matching RADIUS and LDAP usernames.
As a best practice, we recommend configuring RADIUS and LDAP in a test organization first to verify the configuration works as expected. Then, implement the settings for existing organizations or within your system-wide organization settings as described below.

Before you begin

- Configure your authority server to use a RADIUS server. (https://support.code42.com/Administrator/6/Configuring/Set_up_RADIUS)
- Configure your authority server to use an LDAP server. (https://support.code42.com/Administrator/6/Configuring/Integrate_with_LDAP_for_user_authentication)
- (Optional) Set up LDAP scripts on your authority server (https://support.code42.com/Administrator/6/Monitoring_and_managing/User_management_with_LDAP_integration) to manage organization membership, roles, and automatically activate and deactivate users.

Step 1: Configure organizations to use RADIUS and LDAP

Enable RADIUS and LDAP by modifying a specific organization or by modifying the system-wide organization settings.

Option A: Enable RADIUS and LDAP for a specific organization

1. Sign in to the administration console on your authority server.
2. Navigate to Organizations, then select the organization.
3. From the action menu, select Edit.
5. If necessary, deselect **Inherit security settings from parent**.

6. Configure RADIUS as the authentication method:
   
   i. From **Select an authentication method**, choose **RADIUS**.
      
      The configured RADIUS servers appear.
   
   ii. Select the RADIUS server that you want to offer for the organization.

7. Configure LDAP as the directory service:
   
   i. From **Select a directory service**, select **LDAP**.
      
      The configured LDAP servers appear.
   
   ii. Select an LDAP server.

8. Click **Save**.

**Option B: Enable RADIUS and LDAP for all organizations**

Modify the system-wide organization settings to enable RADIUS and LDAP for all organizations.

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**Disabled inheritance**

If you [disable inheritance](https://support.code42.com/Administrator/6/Administration_console_reference/01_Administration_Console_Overview#Inherit_settings) for an organization, that organization is not affected by changes to its parent organization.

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1. Sign in to the administration console on your authority server.

[https://support.code42.com/Administrator/6/Configuring/How_to_use_RADIUS_and_LDAP_together](https://support.code42.com/Administrator/6/Configuring/How_to_use_RADIUS_and_LDAP_together)
2. Navigate to Settings > Organization.

3. Click Security.

4. Configure RADIUS as the authentication method:
   i. From Select an authentication method, choose RADIUS. The configured RADIUS servers appear.
   ii. Select the RADIUS server that you want to offer for the organization.

5. Configure LDAP as the directory service:
   i. From Select a directory service, select LDAP. The configured LDAP servers appear.
   ii. Select an LDAP server.

6. Click Save.

Step 2: Add new users that sign in with RADIUS and LDAP

To allow new users to create their own accounts when they first sign in to a Code42 app, deploy a customized Code42 app that is configured to defer user passwords. Alternatively, you can use the administration console to create user accounts.

Option A: Deploy the Code42 app

Distribute the Code42 app installer to new users.

- New users can register accounts in your Code42 environment by signing in with RADIUS credentials.
- New users begin backing up the default file selection immediately without authenticating if all of the following conditions are met:
  - The organization is configured to auto-start backups.
  - The Code42 app is modified to contain the correct organization registration key.
  - The Code42 app is modified to defer the user’s password.

Users are not able to sign in to the Code42 app or restore unless they have a valid RADIUS account.

Option B: Add users in the administration console

Use the administration console to add users to an organization that uses RADIUS.

- Verify that the users in the organization exist in the RADIUS and LDAP servers used by the organization.
- Make sure that the Code42 environment usernames match the RADIUS and LDAP usernames.
Related topics

- [Set up RADIUS](https://support.code42.com/Administrator/6/Configuring/Set_up_RADIUS)
- [LDAP reference](https://support.code42.com/Administrator/6/Administration_console_reference/LDAP_reference)
- [Integrate with LDAP for user authentication](https://support.code42.com/Administrator/6/Configuring/Integrate_with_LDAP_for_user_authentication)

Learn more: Code42 Education Pass training videos

We also have a training module about authenticating users in Code42. This module is 4 videos that are 3–14 minutes long. These videos cover integrating Code42 with Lightweight Directory Access Protocol (LDAP) as well as managing user access rights and organization structure through scripting.

If you already have a Code42 Education Pass, watch [User Authentication](https://university.code42.com/course/user-authentication-course). Otherwise, email education@code42.com to learn more about [how to get access to training videos](https://university.code42.com/education-passes).