

# Automating Active Directory Integration with Tripwire Enterprise

With Fortra's Tripwire® Enterprise integration with Active Directory, organizations using security products in tandem with AD can reduce excess administrative overhead brought on by the need to assign user permissions within multiple systems every time a credential change (such as employee offboarding) is made.

This integration not only increases efficiency and security, it also helps with proof of compliance for internal or external frameworks (such as NERC CIP) that require well-documented access management controls.

## Instant Role and Group Assignments

The correct role and group memberships are automatically assigned in Tripwire Enterprise when an AD user logs into the console. To do this, Tripwire Enterprise polls AD to validate the user. If it locates a valid credential, it queries further for group information. If the user exists in AD but not in Tripwire Enterprise, they will be auto-created in Tripwire Enterprise at first login using the information from AD and assigned to the appropriate roles and memberships. This information is displayed in the "users" security of the Settings Manager.

## How to Implement the Integration

A simple mapping file informs AD which groups correlate to which roles in Tripwire Enterprise. For example, an AD domain admin can map to the admin role within Tripwire. The readable and editable mapping file is in YAML, located in the configuration directory on the console server. With the mapping file created, this integration is turned on with a single checkbox click as shown.

## Three AD Options in Tripwire Enterprise

Depending on your organization's needs, there are three levels of integration to choose from when using Tripwire Enterprise and AD in tandem, ranging from no to full participation.

- 1. No AD Participation:** Out of the box, Tripwire Enterprise controls all of its own usernames, passwords, roles and memberships as you create them. Tripwire Enterprise then tracks the user groups and roles itself.
- 2. AD Authentication with Tripwire Authorization:** In this option, Tripwire

### KEY HIGHLIGHTS

Microsoft Active Directory gives organizations a major advantage in terms of orderly, on-demand user credential management.

The Tripwire® Enterprise integration with Active Directory allows Tripwire Enterprise to gather group and member information based on existing roles within AD.

Enterprise queries AD on the validity of usernames and passwords and receives a yes/no reply. If “yes,” Tripwire Enterprise will look for a user that’s already been created in it. If “no,” either the password was wrong or the user doesn’t exist in AD, and Tripwire Enterprise won’t attempt to log in the user even if they exist in Tripwire Enterprise.

**3. Full AD Participation:** Instead of creating and maintaining users in both places, Tripwire Enterprise effectively follows the commands of AD. Once the integration is set up, users will be auto-created and AD will reply with a list of groups each user belongs in. Tripwire Enterprise looks in its mapping files for a match and assigns roles and groups based on the mapping file.

## Summary

Thanks to a robust integration between Tripwire Enterprise and Active Directory, your organization can reduce administrative overhead and minimize human error with auto-created users, groups and roles to ensure secure and efficient credential management.

Username	Description	Last Login	Last Logout	Status
administrator	The Administrator for this Tripwire installation.	Dec 31, 2019 11:47:31 AM	Dec 31, 2019 11:51:28 AM	
nbrown	Auto Created User for LDAP Authentication.	Dec 31, 2019 11:51:33 AM	Never	

Auto-created users are shown in grey instead of blue in the Settings Manager.

**Login Method**

System login method: LDAP/Active Directory

Description: Authenticate using LDAP/ActiveDirectory passwords.

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**Server Configuration**

LDAP Server: ldap://10.0.0.1 (ldap://adserver)

User template: \$user@example.com (\$user@example.com)

Connect using SSL

Auto Synchronize LDAP Users, Roles and Groups

*Please consult the documentation for proper configuration of this feature*

The Active Directory integration is activated through this checkbox.



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