Active Directory Remote Synchronization Implementation Guide

IT Administrator

Document Details

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Overview

Audience: The Active Directory Administrator of CrunchTime's on-premise client.

This document explains how to implement Active Directory Remote Synchronization for IT.

System Requirements

- CES Release Version 06.40.00 or higher
- Be sure to grab the latest version of this document here: https://links.crunchtime.com/SG-ADRemoteSyncIT

Other Related Documentation

- AD Remote Auth Guide - IT: https://links.crunchtime.com/SG-ADRemoteAuthIT
- AD Remote Auth Guide - Apps: https://links.crunchtime.com/SG-ADRemoteAuthApps
- AD Remote Sync Guide - Apps: https://links.crunchtime.com/SG-ADRemoteSyncApps
- AD Remote Sync Guide - CT Admin: https://links.crunchtime.com/SG-ADRemoteSyncCTadmin

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Implementation Steps

1. Create a service account in the Active Directory that is a domain account with read-only access to all Active Directory users.

2. Provide the following Active Directory information to the CrunchTime Application Operator.
   - **remote.directory.url**: LDAP connection URL. Typically in the form of *ldap(s)://ip.address/dc=xxx,dc=local*
   - **remote.directory.domain_name**: Active Directory domain name, typically in the form of *orgname.local*
   - **remote.directory.search_base**: Highest Organizational Unit in Active Directory that CrunchTime Application is allowed to search users in. It can be as high as the root of the Active Directory. A typical value is *ldap://ip.address/OU=top_search_ou,DC=xxx,DC=local*
   - **remote.directory.search.follow_referral**: *false* if you only have one domain; *true* if you have multiple domains joined in a Forest and want to search for cross-domain membership
   - **remote.directory.groups_path:** Path to the Organizational Unit that all Active Directory groups mapped from user groups in CrunchTime Database need to be a direct child of. A typical value is *OU=CT_Groups,OU=people,DC=xxx,DC=local*
   - **remote.directory.sync_user.name**: Name of the service account created in Step 1
   - **remote.directory.sync_user.pass**: The password for the service account created in Step 1

3. Active Directory Group task
   - Create groups in the Active Directory under “remote.directory.groups_path”
   - Associate users with these group so that these users will be synchronized
   - Provide the name of these groups to the CrunchTime Application Administrator so they can create the mapping in the CrunchTime Application

4. Active Directory Locations task
   - Create locations as organizational unit (OU) in the Active Directory
   - Create/move users under these locations so that the location of the user will be picked up during synchronization
   - Provide the name of these locations to the client’s CrunchTime Application Administrator so they can create the mapping in the CrunchTime Application

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Implementation Steps (Continued)

5. Make the Active Directory server accessible to the CrunchTime Applications
   - If using LDAP protocol, open port 389 for connection
   - If using LDAPS protocol:
     - Whitelist IPs of CrunchTime Applications; Blacklist others in firewall
     - Open port 636 for connection
     - Complete the "Certificate" step below

6. Certificate for LDAPS (if using)
   - Use SHA-256 to create the certificate; SHA-1 is not supported
   - When creating the certificate, be sure to have IPAddress of the Active Directory server listed in the content of "subject alternative name" of the certificate.
     (Reference: *https://stackoverflow.com/questions/29157861/java-certificateexception-no-subject-alternative-names-matching-ip-address)*
   - Make sure the certificate is on the Active Directory server
   - Provide this certificate to CrunchTime Application Operator

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