

## Understanding Directory Integration

<https://campus.barracuda.com/doc/75694385/>

Active Directory (AD) integration is necessary for:

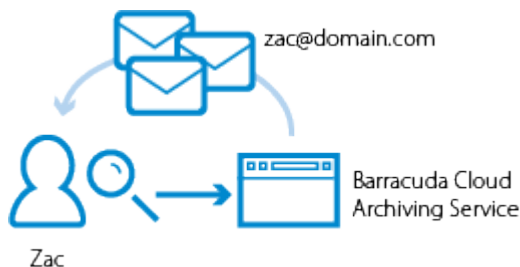
- Group expansion and alias collection (*recommended*)
- End-user access (*optional*)

### Group Expansion

Group Expansion is used to determine which users have access to messages that have been sent to a list. Group expansion requires Barracuda Cloud Control to be connected to your directory service, either AD or Azure AD.

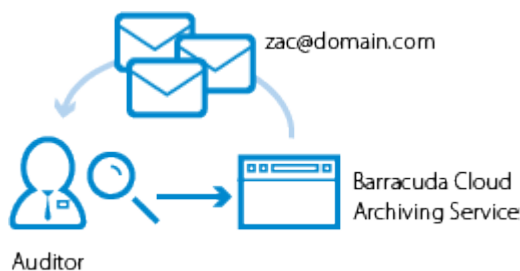
#### Example 1. Zac Expects Search to Return all Messages to which he has Access.

- Barracuda Cloud Control *is not* connected to your directory service
- Zac expects to search all messages to which he has access
- There is no group expansion so only messages sent to **zac@domain.com** are returned



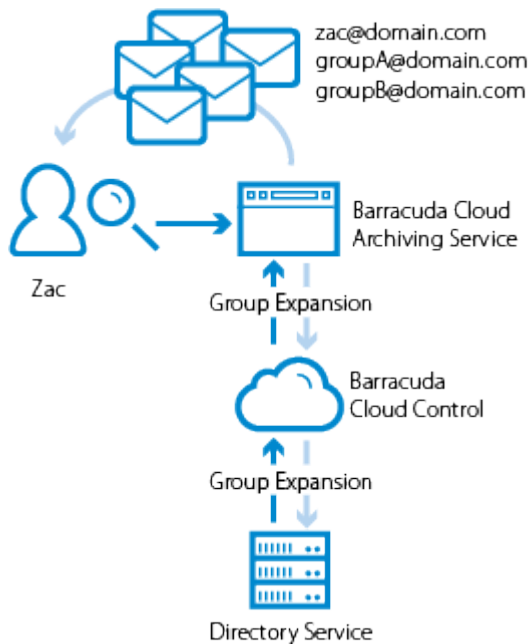
#### Example 2. Auditor Expects Search to Return for all Messages to which Zac has Access.

- Barracuda Cloud Control *is not* connected to your directory service
- Auditor expects to search all messages to which Zac has access
- There is no group expansion so only messages sent to **zac@domain.com** are returned

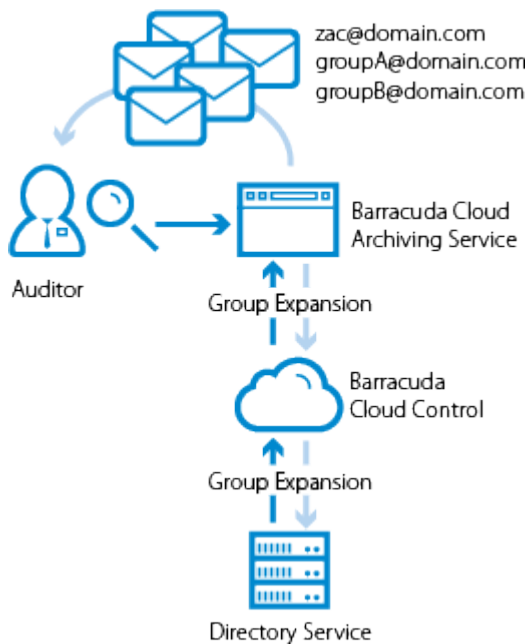


**Example 3. Zac's Search Returns all Messages to which he has Access.**

- Barracuda Cloud Control is connected to your directory service
- Zac is included in **groupA@domain.com** and **groupB@domain.com**
- All messages Zac has access to are returned in the search results

**Example 4. Auditor's Search Returns all Messages to which Zac has Access.**

- Barracuda Cloud Control is connected to your directory service
- Zac is included in **groupA@domain.com** and **groupB@domain.com**
- All messages Zac has access to are returned in the Auditor's results



## Alias Collection

An alias allows users to use different email addresses to reach a single mailbox. Configure alias information in your directory. When an email alias is connected to a user name, when the user logs in to the service, all of their aliases are recognized as connected to the account and the contents of any message sent to or from the user aliases are made available for searching and viewing by the account.

## End-User Access

By default, users are not granted access when directory services are configured for syncing. End-user access is granted by choosing groups and adding entitlements.

## Figures

1. ZacNoGroupExp.png
2. AuditorNoGroupExp.png
3. ZacGroupExp.png
4. AuditorGroupExp.png

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