

Exchange Message-Level Backup

<https://campus.barracuda.com/doc/78809416/>

For information on the supported versions of Microsoft Exchange, see [Supported Servers and Data Types](#).

The Exchange Message-Level backup is a secondary backup method that should be used in addition to the server/database backup that is done using the Barracuda Backup Agent. The primary use case for the Exchange Message-Level backup is to recovery deleted or lost email messages from a specific point in time. Since the Exchange Message-Level backup is a separate backup method from the BBA backup, more backup data will be added to your Barracuda Backup device.

The Exchange Message-Level backup protects and allows for the recovery of the following:

- Email messages in each user mailbox;
- User mailbox folder structure; and
- Email attachments to each email message

The Exchange Message-Level backup does not protect or allow for the recovery of the following:

- The entire user mailbox (including metadata) that can be restored back into the Exchange database;
- Contacts;
- Calendars;
- Tasks; or
- Any other non-email message data

Requirements

All of the following configuration sections for Exchange Message-Level backup take place on the Exchange Client Access Server (CAS). In some cases, like a standalone Exchange Server, the database server and CAS are the same system.

You must have the following configured:

- Outlook Web Access;
- The Primary and Secondary DNS setting on the Barracuda Backup device must the DNS servers which participate in Active Directory (AD); and
- The service account (will be created below) must have an Exchange mailbox and SMTP address

For Exchange Message-Level backups to work properly, DNS must be set up correctly. DNS servers on

the Barracuda Backup device must be DNS servers that participate in AD. The simplest way to determine which DNS servers to use is to use the IP addresses of your AD Domain Controllers.

Creating a Service Account

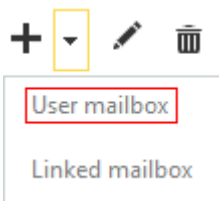
It is strongly recommended that you use a service-type account and not your administrator account to prevent inherited deny permissions from causing issues. This service account requires an Exchange mailbox and SMTP address and must be a member of the Domain Users group; adding the service account to any administrative groups may cause issues with access to user mailboxes.

As a best practice, use a unique account for this integration point and grant it the least level of privileges required, coordinating with the system administrator. This account requires administrative privileges to the Exchange server. For additional information, see [Security for Integrating with Other Systems - Best Practices](#).

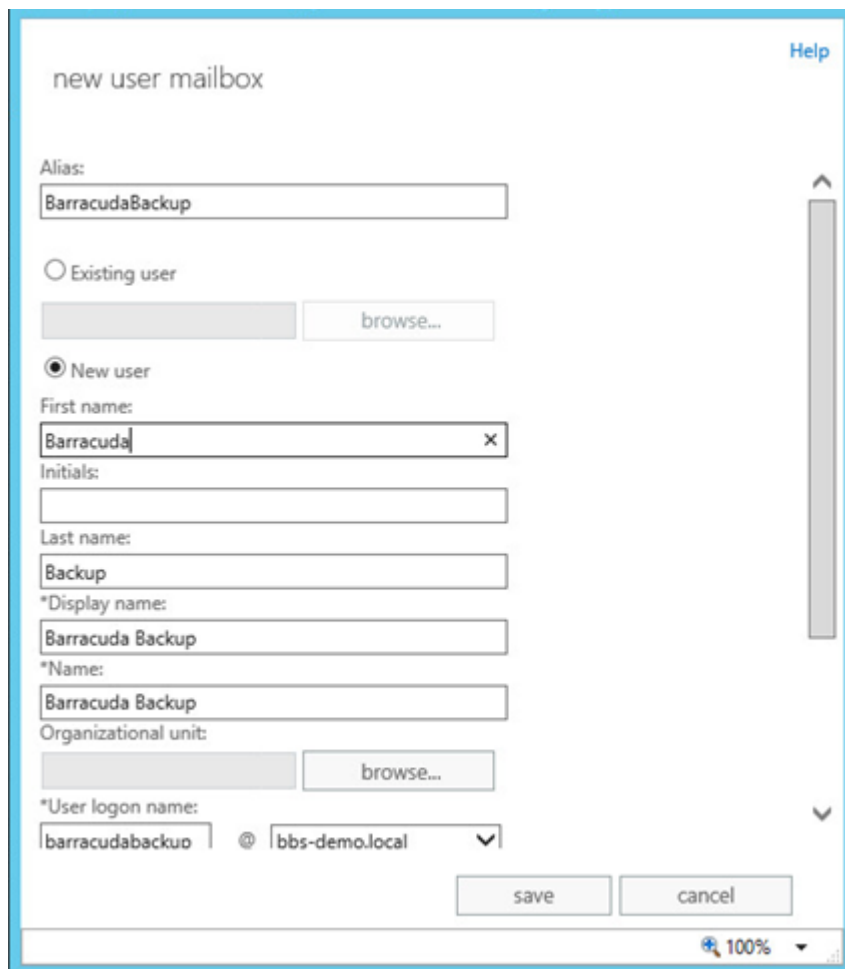
Use the following steps to create a service account to be used by Barracuda Backup:

These steps are performed using Microsoft Exchange Server 2013. The steps for creating a service account and mailbox in other versions of Exchange may be slightly different.

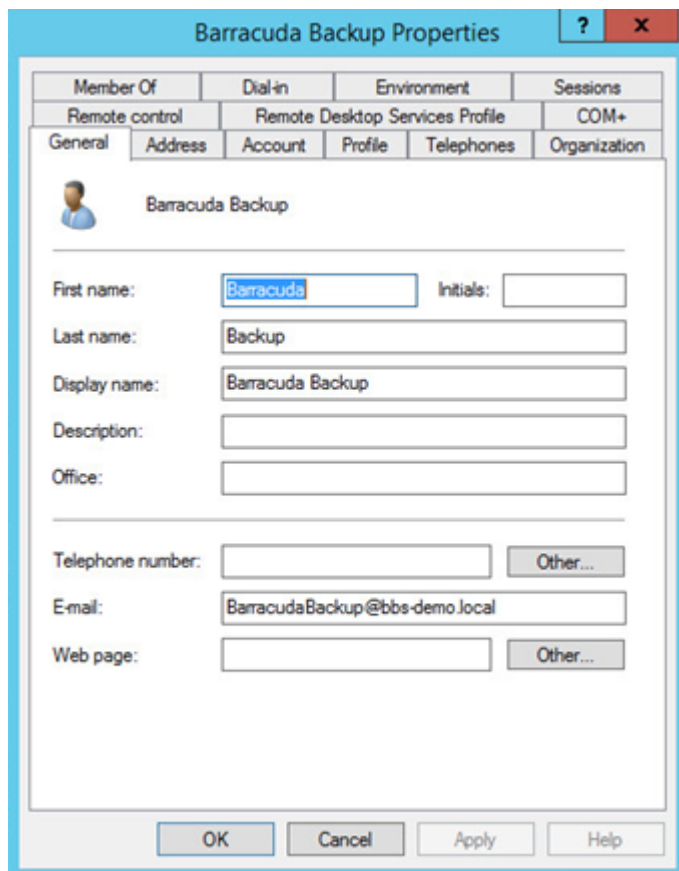
1. Log into the **Exchange Admin Center**, click the down arrow next to the plus + symbol, and click **User mailbox**:



2. In the **new user mailbox** window, enter the required fields to create the new mailbox to be used by Barracuda Backup:



3. Click **save**.
4. Open **Active Directory Users and Computers**, locate the new user created in **step 2**, and open **Properties**:




Barracuda Backup Properties

Member Of | Dial-in | Environment | Sessions

Remote control | Remote Desktop Services Profile | COM+

General | Address | Account | Profile | Telephones | Organization

 Barracuda Backup

First name: Initials:

Last name:

Display name:

Description:

Office:

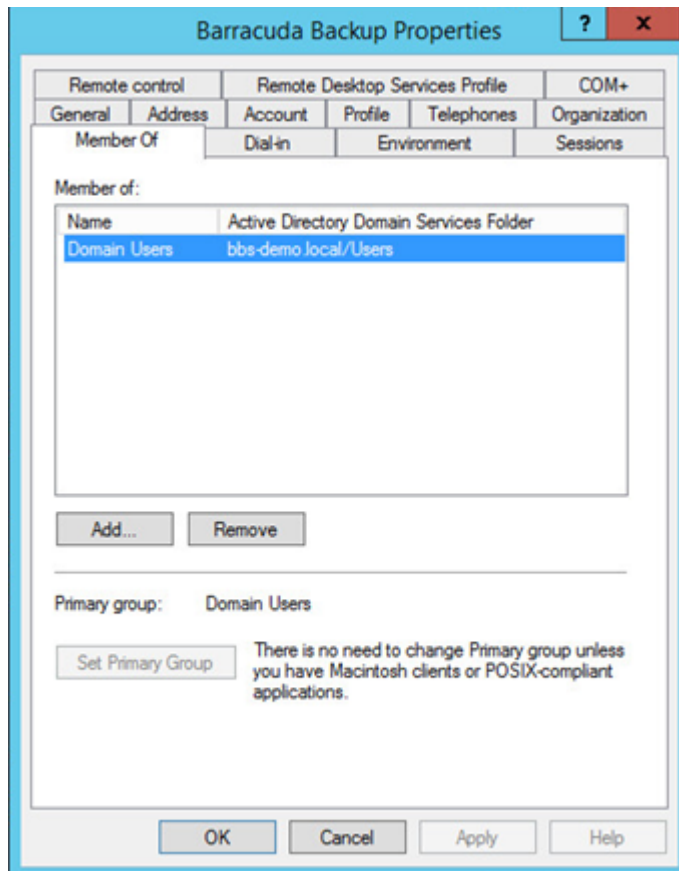
Telephone number: Other...

E-mail:

Web page: Other...

OK Cancel Apply Help

5. Click the **Member Of** tab, add the new user as a member of the **Domain Users** group, and remove any other groups listed here (*required*):



6. Click **Apply**, and click **OK** to close the **Properties** dialog box.

Impersonation Rights

In order for the Barracuda Backup service account to access other mailboxes within the Exchange environment, you must give the account impersonation rights. To assign impersonation rights:

1. Open the **Exchange Management Shell** and run the following command, replacing *ServiceAccount* with the Service Account username created in the previous section:
`New-ManagementRoleAssignment -Name:BarracudaBackup -
Role:ApplicationImpersonation -User: ServiceAccount`

```

Machine: WIN-M48GAUBRC34.setest.local

Cmdlets that match a specific string: Help *(<string>)*
Get general help: Help
Get help for a cmdlet: Help <cmdlet name> or <cmdlet name> -?
Show quick reference guide: QuickRef
Exchange team blog: Get-ExBlog
Show full output for a command: <command> ! Format-List

Tip of the day #12:
Pushd and Popd work the same way in the Exchange Management Shell as they do in cmd.exe. Type:
Pushd <location>

VERBOSE: Connecting to WIN-M48GAUBRC34.setest.local.
VERBOSE: Connected to WIN-M48GAUBRC34.setest.local.
[PS] C:\Windows\system32>New-ManagementRoleAssignment -Name:BarracudaBackup -Role:ApplicationImpersonation -User:bbackup

Name                           Role                           RoleAssigneeName  RoleAssigneeType  AssignmentMethod  EffectiveUserName
----                           -
BarracudaBackup                 ApplicationImp...  Barracuda Backup. User  Direct
[PS] C:\Windows\system32>

```

2. (Optional) It is good practice to perform a group policy update on the Exchange Server to replicate permissions. Run the following command either using PowerShell or at a command line:
`gpupdate /force`

Create the Exchange Message-Level Data Source

You can add the Exchange Message-Level data source as a standalone data source or as an add-on to an already configured Barracuda Backup Agent data source. The steps below demonstrate how to add the data source from scratch. If the agent data source already exists, you can skip to step 6.

1. Log into Barracuda Backup and select the associated Barracuda Backup device in the left pane or in the devices table (for customers with multiple Barracuda Backup devices).
2. Go to the **Backup > Sources** page, and click **Add a Computer**.
3. Complete the following information on the **Add a Computer** page:
 1. Computer description
 2. Computer name
4. In the **Computer type** drop-down menu, select **Microsoft Windows**.
5. Once the Exchange data source is configured, click **Save**.
6. The **Add Data Source** page displays. Type in a **Data Description**, and from the **Data Type** drop-down menu, select **Message-Level Backup (Exchange)**.
7. In the **Message-Level Backup (Exchange)** section, complete the following:
 1. **Exchange Version** - Version of Microsoft Exchange in the environment
 2. **Username** - Username of the service account created in the previous section
 3. **Password** - Password for the service account created in the previous section
 4. **Windows Domain Name** - Fully qualified domain name (FQDN), for example, `domain.local`
 5. **Base DN (Optional)** - LDAP Base Distinguished Name of your AD, for example, `DC=domain,DC=local`

The BASE DN field is optional; enter the Base Distinguished Name only if directed to do so by [Barracuda Networks Technical Support](#).

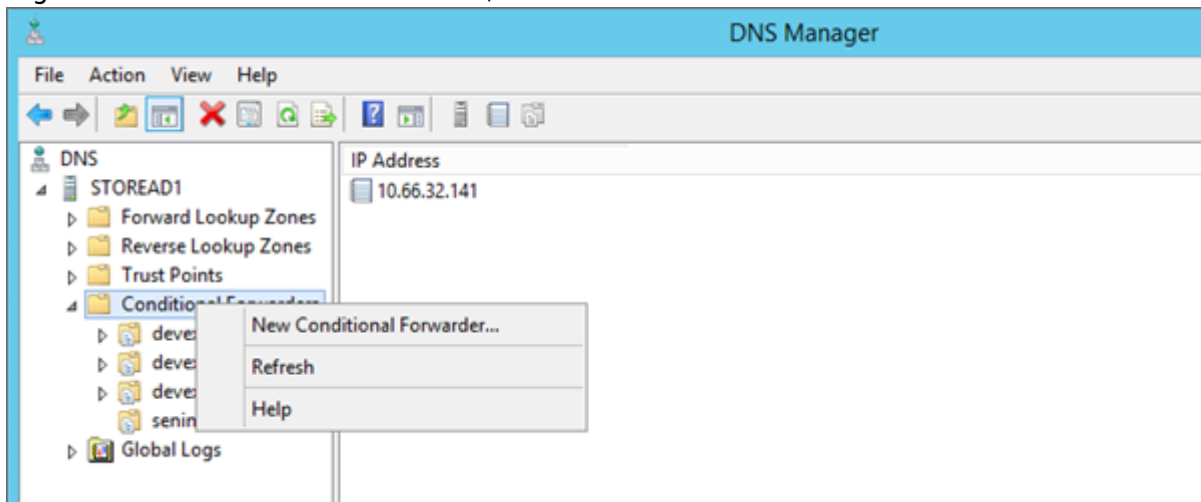
8. Click **Test Exchange Connectivity** to verify Barracuda Backup can connect to the Exchange Server using the entered login credentials.
9. Finish configuring the backup schedule name, the offsite replication destination, and click **Save**.
10. Once the data source is configured, the **Schedules** page displays. The Exchange Message-Level container should now display under the data source in the selection tree. For more information on backup scheduling, see [Backup Scheduling](#).

Exchange Message-Level Backup for Multiple Domains

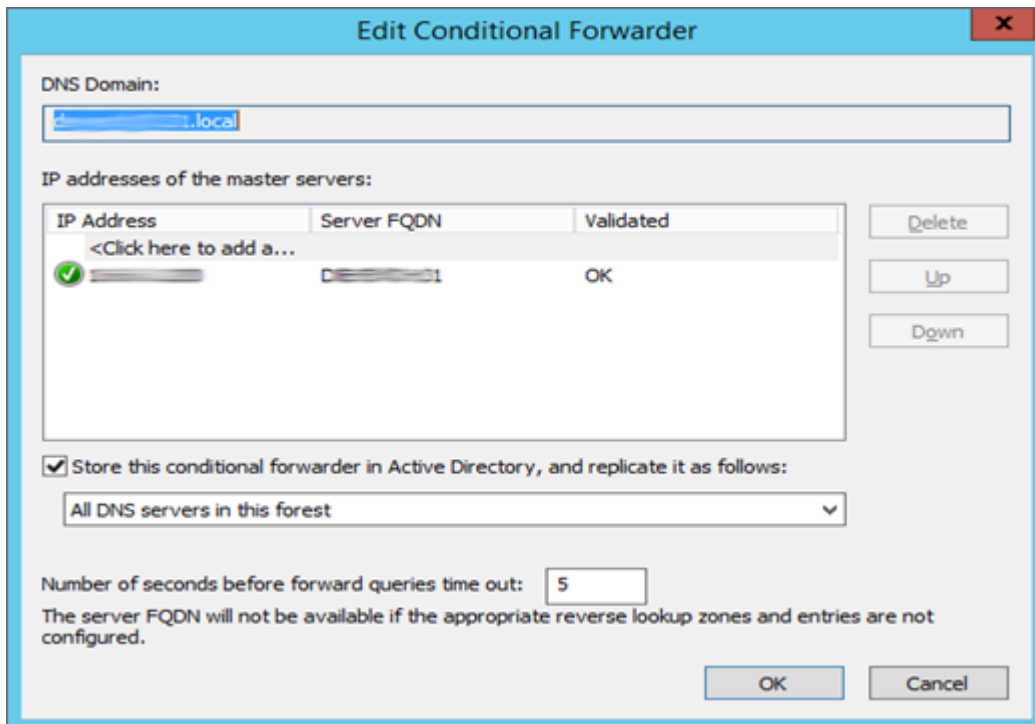
If you have multiple domains, you must create a conditional forwarder to configure Exchange Message-Level backup and protect mailboxes across all domains.

Complete the following steps for each domain configured for Exchange Message-Level backup:

1. Log into the original DNS server configured on the Barracuda Backup appliance, and open the **DNS Manager**.
2. Right-click **Conditional Forwarder**, and click **New Conditional Forwarder**:



3. The **Edit Conditional Forwarder** dialog box displays; enter the **DNS Domain**.
4. Click in the **IP addresses of the master servers** section, and enter the **IP Address**.
5. Select **Store this conditional forwarder in Active Directory**:



The screenshot shows the 'Edit Conditional Forwarder' dialog box. The 'DNS Domain' field is set to 'example.local'. The 'IP addresses of the master servers' table contains one entry with a green checkmark in the 'Validated' column. The 'Store this conditional forwarder in Active Directory' checkbox is checked, and the replication scope is set to 'All DNS servers in this forest'. The 'Number of seconds before forward queries time out' is set to 5. The 'OK' button is highlighted.

Edit Conditional Forwarder

DNS Domain:

IP addresses of the master servers:

IP Address	Server FQDN	Validated
<Click here to add a...>		
192.168.1.1	192.168.1.1	OK

☒ Store this conditional forwarder in Active Directory, and replicate it as follows:

Number of seconds before forward queries time out:

The server FQDN will not be available if the appropriate reverse lookup zones and entries are not configured.

6. Click **OK**.

Figures

1. user_mailbox.png
2. MailboxConfig01.png
3. MailboxConfig02.png
4. MailboxConfig03.png
5. command.png
6. dns_mgr.png
7. edit_conditional_forwarder.png

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