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## How to Configure MSAD DC Client Authentication

<https://campus.barracuda.com/doc/46209032/>

The Barracuda DC Client receives user authentication information from Barracuda DC Agents installed on Microsoft domain controllers.

### Before you Begin

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Before you configure MSAD DC Client authentication, you must install the Barracuda DC Agent on the Microsoft Active Directory server. For more information, see [Barracuda DC Agent for User Authentication](#).

### Configure the MSAD DC Client

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Configure MSAD DC Client settings on the Barracuda NextGen Firewall F-Series:

1. Go to **CONFIGURATION > Configuration Tree > Box > Infrastructure Services > Authentication Service**.
2. In the left menu, click **MSAD DC Client**.
3. Click **Lock**.
4. Set **Activate Scheme** to **Yes**.
5. In the **Server Setting** table, add all Microsoft Active Directory servers running the Barracuda DC Agent.
6. For each entry, specify the **IP Address** of the Active Directory server running the DC Agent.
7. Enter the **TCP Port** of the Active Directory server running the DC Agent (default: port 5049).
8. If group information is queried from a different authentication scheme, select the scheme from the **User Info Helper Scheme** list.
9. Click **OK**.
10. In the **Group Filter Patterns** table, you can add patterns to filter group information from the directory service.  
Example:
  - **Group Filter Pattern:** \*SSL\*
  - **User01:** CN=foo, OU=bar, DC=foo-bar, DC=foo
  - **User02:** CN=SSL VPN, DC=foo-bar, DC=fooIn this example, User01 does not have the \*SSL\* pattern in its group membership string and will not match in group-based limitations.
11. Click **Send Changes** and **Activate**.

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