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<https://docs.microsoft.com/en-us/bot-framework/rest-api/bot-framework-rest-connector-authentication>

### Step 1: Request an access token from the MSA/AAD v2 login service

To request an access token from the MSA/AAD v2 login service, issue the following request, replacing **MICROSOFT-APP-ID** and **MICROSOFT-APP-PASSWORD** with the App ID and password that you obtained when you [registered](https://docs.microsoft.com/en-us/bot-framework/portal-register-bot) your bot with the Bot Framework.

httpCopy

POST https://login.microsoftonline.com/botframework.com/oauth2/v2.0/token

Host: login.microsoftonline.com

Content-Type: application/x-www-form-urlencoded

grant\_type=client\_credentials&client\_id=MICROSOFT-APP-ID&client\_secret=MICROSOFT-APP-PASSWORD&scope=https%3A%2F%2Fapi.botframework.com%2F.default

Step 3: Get the list of valid signing keys

To get the list of valid signing keys, issue a GET request via HTTPS to the URL specified by the jwks\_uri property in the OpenID metadata document. For example:

httpCopy

GET https://login.microsoftonline.com/common/discovery/v2.0/keys

Host: login.microsoftonline.com

### [Bot to Connector authentication](https://docs.microsoft.com/en-us/bot-framework/rest-api/bot-framework-rest-connector-authentication#bot-to-connector)

#### **OAuth login URL**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://login.microsoftonline.com/common/oauth2/v2.0/token |
| v3.1 (starting December 2016) | https://login.microsoftonline.com/botframework.com/oauth2/v2.0/token |

#### **OAuth scope**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://graph.microsoft.com/.default |
| v3.1 (starting December 2016) | https://api.botframework.com/.default |

### [Connector to Bot authentication](https://docs.microsoft.com/en-us/bot-framework/rest-api/bot-framework-rest-connector-authentication#connector-to-bot)

#### **OpenID metadata document**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://api.aps.skype.com/v1/.well-known/openidconfiguration |
| v3.1 (starting December 2016) | https://login.botframework.com/v1/.well-known/openidconfiguration |

#### **JWT Issuer**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://api.botframework.com |
| v3.1 (starting December 2016) | https://api.botframework.com |

### [Emulator to Bot authentication](https://docs.microsoft.com/en-us/bot-framework/rest-api/bot-framework-rest-connector-authentication#emulator-to-bot)

#### **OAuth login URL**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://login.microsoftonline.com/common/oauth2/v2.0/token |
| v3.1 (starting December 2016) | https://login.microsoftonline.com/botframework.com/oauth2/v2.0/token |

#### **OAuth scope**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://graph.microsoft.com/.default |
| v3.1 (starting December 2016) | Your bot’s Microsoft App ID + /.default |

#### **JWT Audience**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://graph.microsoft.com |
| v3.1 (starting December 2016) | Your bot’s Microsoft App ID |

#### **JWT Issuer**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://sts.windows.net/72f988bf-86f1-41af-91ab-2d7cd011db47/ |
| v3.1 (starting December 2016) | https://sts.windows.net/d6d49420-f39b-4df7-a1dc-d59a935871db/ |

#### **OpenID metadata document**

| Protocol version | Valid value |
| --- | --- |
| v3.0 (June 2016 - July 31, 2017) | https://login.microsoftonline.com/common/v2.0/.well-known/openid-configuration |
| v3.1 (starting December 2016) | https://login.microsoftonline.com/botframework.com/v2.0/.well-known/openid-configuration |