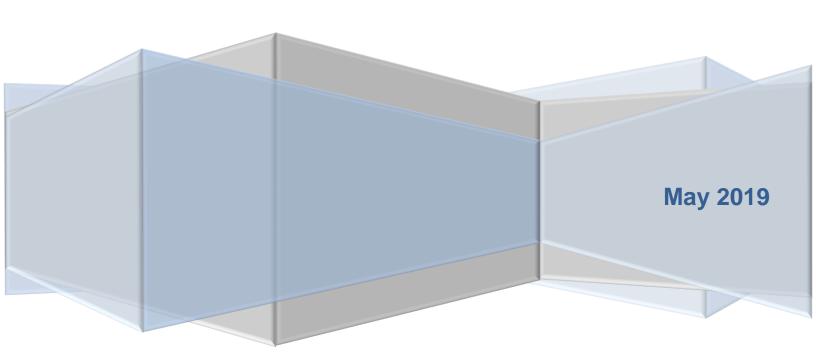




Chime for Teams Azure Prerequisites



Copyright and Disclaimer

This document, as well as the software described in it, is furnished under license of the Instant Technologies Software Evaluation Agreement and may be used or copied only in accordance with the terms of such license. The content of this document is furnished for informational use only, is subject to change without notice, and should not be construed as a commitment by Instant Technologies. Instant Technologies assumes no responsibility or liability for any errors or inaccuracies that may appear in this document. All information in this document is confidential and proprietary.

Except as permitted by the Software Evaluation Agreement, no part of this document may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, recording, or otherwise, without the prior written permission of Instant Technologies .

Copyright © 2005 - 2019 Instant Technologies, All rights reserved.

Trademarks

All other trademarks are the property of their respective owners.

Contact Information

See our website for Customer Support information.

http://www.instant-tech.com/



CONTENTS

Configuring Azure AD Authentication for Chime For Teams	4
Prerequisites:	4
Configure Active Directory Authentication	5
Retrieve your Azure Tenant ID	5
Create Application	5
Register the Chime Application	6
Configure the Application	6
Configure Application Permissions	7
Create a New API Key	9
Add Reply URLs	10
Setup Before Chime Install	11
SSL Certificate	11
Azure Active Directory Accounts List	11
Setup After Chime Install	12
Install Wizard	12
Creating Bots for Chime Dispatchers	13
Creating a Bot Registration in Azure	13

CONFIGURING AZURE AD AUTHENTICATION FOR CHIME FOR TEAMS

Chime for Skype for Teams requires the configuration of an Azure Active Directory application in order to allow Chime to leverage Office 365 for user authentication, and to communicate with your Skype for Business users. This document will outline how to configure these two applications.

PREREQUISITES:

- A. You must have an Office365 tenant for your organization.
- B. You must be an administrator of your Office 365 domain.
- C. An Azure account linked with your Office 365 Identity. If this is not done, see https://technet.microsoft.com/en-us/library/dn832618.aspx.

All configuration steps in this guide take place in the Azure Active Directory component of the Azure portal.

- 1. Sign into the Azure AD portal (https://portal.azure.com).
- 2. Select the Azure Active Directory in the left-hand navigation pane.

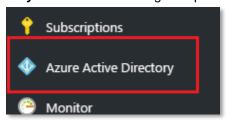


Figure 1: Begin Setting up Active Directory

 If the Azure Active Directory is not available on the left-hand navigation pane, it is available in All services then the section labeled Identity

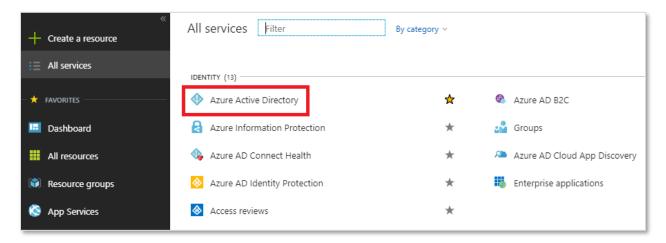


Figure 2: Secondary Option to Active Directory Setup

CONFIGURE ACTIVE DIRECTORY AUTHENTICATION

RETRIEVE YOUR AZURE TENANT ID

- Select Properties in the navigation pane in the Azure Active Directory blade.
- Copy the **Directory ID** from the field, and save it somewhere convenient. You will need this value
 when configuring Chime. **Note**: The Directory ID is often referred to as the "Tenant ID" in
 Microsoft documentation, both terms are referring to this ID.

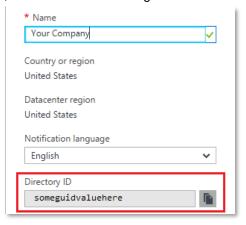
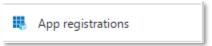


Figure 3: Copy Directory ID

CREATE APPLICATION

1. Select App Registrations in the new navigation pane within the Azure Active Directory blade.



2. Click the New application registration option in the Azure Active Directory blade.

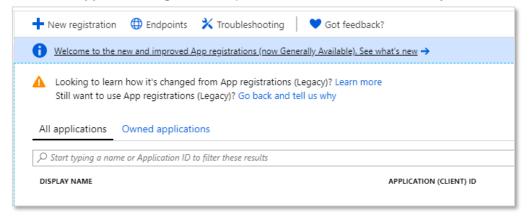


Figure 4: Create New Application Registration

REGISTER THE CHIME APPLICATION

- 1. Create a name for this application (Chime is a suitable name)
- 2. Select Accounts in this organizational directory only as the Supported account types
- 3. Enter the URL for the server that Chime will be hosted on, with the /Chime route in the URL (ex: https://yourserver.domain.com/Chime)

NOTE: Be sure that the /Chime is included in the URL, this will automatically configure the Reply URL to correctly work with the Chime application

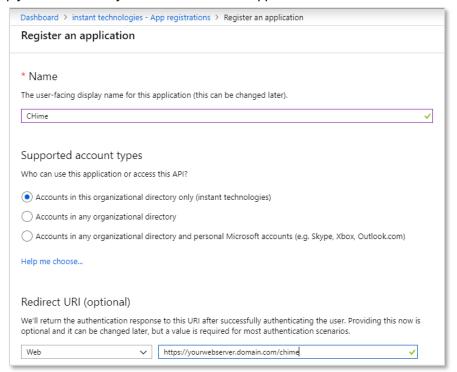


Figure 5: Create the Chime Web App / API

4. Click the Register button in the bottom of the Register an Application blade.

CONFIGURE THE APPLICATION

- 1. Click on the newly created application in the **App Registrations** blade. If you have many applications, you may need to search for it.
- 2. In the Overview window, you will be able to record the **Application ID**. This value will be used when configuring Chime. This page also will allow you to record the Directory (tenant) ID if you were unable to in the previously.

CONFIGURE APPLICATION PERMISSIONS

1. Click the API Permissions button.

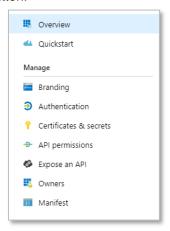


Figure 6: Access Required API Permissions

2. Click the Add a Permission button in the API Permissions window.

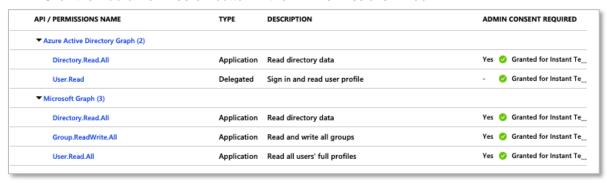


Figure 7: Manage Required Permissions

3. Select Graph API from the list of Microsoft API's listed.

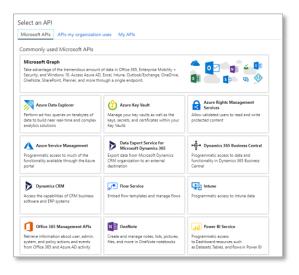


Figure 8: Configure Required Permissions

- 4. Select Application permissions.
- 5. Use the search bar to find and add the following required permissions
 - a. Directory.Read.All
 - b. Group.ReadWrite.All
 - c. User.Read.All
- 6. Once all of the above permissions are selected, click the **Add Permissions** button.

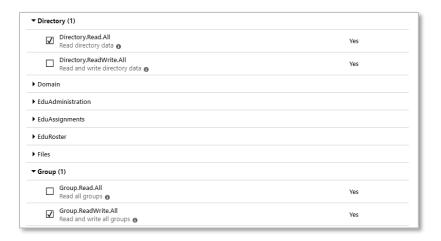


Figure 9: Select Permissions for Graph Api

- 7. Click the Add a Permission button again.
- 8. Select Azure Active Directory Graph. This might be at the bottom of the list.
- 9. Select Delegated permissions.
- 10. Search for User.Read and Select it.



Figure 10: Select Permissions for Delegated Permissions

- 11. Select Application permissions.
- 12. Search for Directory.Read.All and Select it.

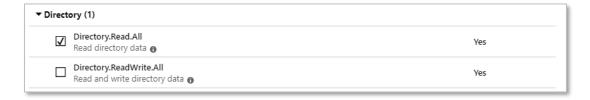


Figure 11: Select Permissions for Application Permissions

13. Click the Add Permissions button.

CREATE A NEW API KEY

1. Click the Certificates & secrets button.

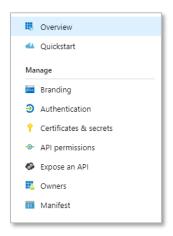


Figure 12: Access Certificates & Secrets

- 2. Click the **New client secret** button.
- 3. Enter a description for your client secret.
- 4. Select a duration for this API key. We suggest creating a key which never expires.
- 5. Click Add to create a new API key.
- 6. Copy the newly created API key somewhere you can retrieve it. You will need this API key when configuring the Chime application



Figure 13: Setup API Key

ADD REPLY URLS

- 1. To add Reply URLs we will need to navigate to legacy version of the App Registrations blade.
- 2. Navigate back to the dashboard of your Azure Active Directory.
- 3. Click the **App registrations (Legacy)** button.
- 4. Select the app registration that you created earlier.
- 5. Click the **Settings** button on the blade that opens.
- 6. In the Settings blade, click the Reply URLs button.

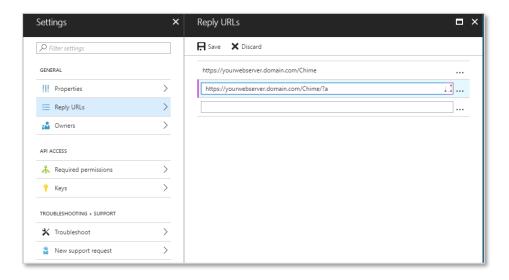


Figure 14: Configure Reply URLs

- 7. There should be 1 reply URL saved in there already, it will look something like this: https://[yourwebserver].domain.com/chime (If there is not a URL there with this format, one should be added before proceeding to the next step)
- 8. In the text box below, add in a reply URL with this format: https://[yourwebserver].domain.com/chime/?a
- 9. Click the Save button.
- 10. Close the Reply URLs blade.

SETUP BEFORE CHIME INSTALL

SSL CERTIFICATE

To set up a Chime deployment with Office 365, you will need to acquire a SSL certificate. This certificate will be installed on the server on the same server that the Chime instance will be on. Without this certificate installed, no users will be able to authenticate into the web app.

AZURE ACTIVE DIRECTORY ACCOUNTS LIST

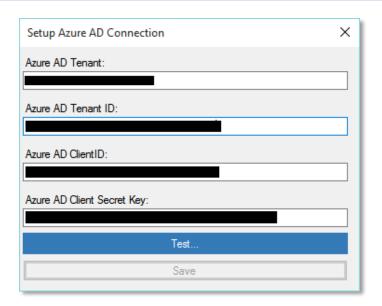


Figure 15: Setup Azure AD Connection

Azure AD Tenant:
This is usually the domain associated with your Office 365 email address, e.g. example.com
Azure AD Tenant ID:
This value is from Page 5 (Directory ID)
Azure AD Client ID
This value is from Page 6 (Application ID)
Azure AD Client Secret Key

This value is from Page 9

SETUP AFTER CHIME INSTALL

INSTALL WIZARD

Once Chime has been installed, there will be a configuration wizard that opens. The configuration wizard provides a tool to register a SSL certificate with the Chime application.

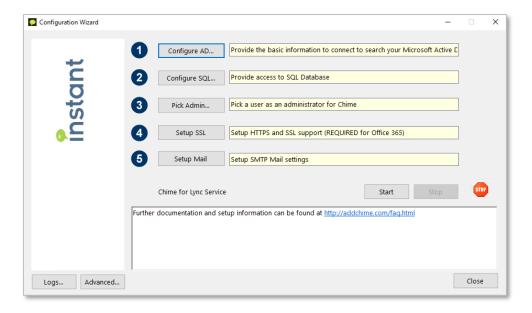


Figure 16: Configuration Wizard

Once the certificate has been installed on the server, you can follow these steps.

- 1. Click the Setup SSL button.
- 2. Under SSL Binding, click Add.

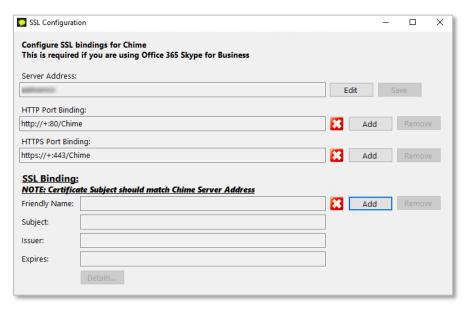


Figure 17: Setup SQL Connection

3. When the Select SSL Certificate window opens, select the *.imchime.com certificate.



Figure 18: Select SSL Certificate

Close the SSL Configuration modal

CREATING BOTS FOR CHIME DISPATCHERS

This must be done after completing the Chime installation.

Each Chime queue will need at least one dispatcher bot endpoint created for users to access seeking help, and to route those requests to an agent. Each bot that is supplied for a queue will allow agents to handle one concurrent chat – i.e. for agents to be able to handle two chats from users at the same time, two bots must be created for the queue.

You must be an administrator for your Microsoft Azure subscription to complete these steps.

CREATING A BOT REGISTRATION IN AZURE

Note: Steps and screenshots displayed here are accurate as of April 2019. The Azure Portal changes rapidly, and the UI and flow may change slightly in the future.

- 1. Navigate to the Azure Portal, at https://portal.azure.com
- 2. Click the "Create Resource" button in the side bar. Enter "Bot Channels Registration" in the search bar and select the matching option from the list.

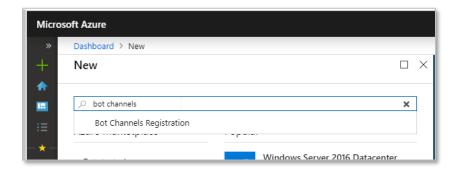


Figure 19: Search for Bot Channels Registration

3. Click "Create" to start creating the resource.

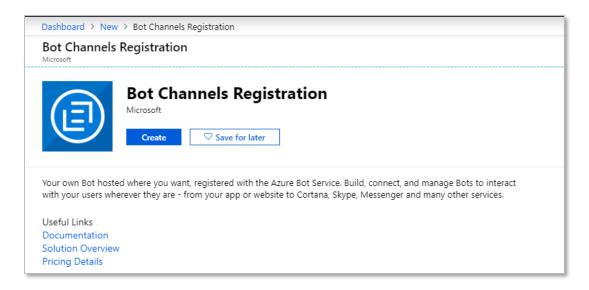


Figure 20: Create Bot Channels Registration

- 4. You should see a configuration page to create the Bot Channel Registration. Fill out the following fields:
 - a. **BotName:** Select an appropriate name for the bot we would suggest matching the name of the queue in Chime that this bot will be used with
 - b. **Subscription:** Select an Azure subscription to tie this bot registration to.
 - c. Resource Group: Select an existing Azure Resource Group to contain this registration, or create a new resource group. We would suggest creating a group and using it for all Chime bot registrations.
 - d. Location: Select the most appropriate Azure datacenter location for your users.
 - e. Pricing Tier:
 - i. If users will be primarily contacting Chime through the Teams client, then the F0 tier may be the most cost-effective and appropriate level
 - ii. If users will be primarily using the web client to contact Chime, then select the S1 tier.
 - f. **Messaging endpoint**: For now, leave this blank. It will be necessary to update this later, once the bot has been assigned to a Chime queue.
 - g. Application Insights: Off
 - h. Microsoft App ID and password: Leave this as "Auto create App ID and password"

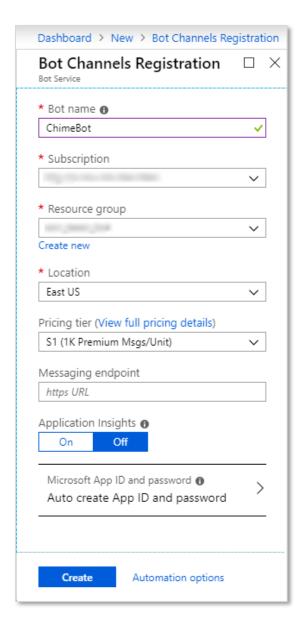


Figure 21: Create the Bot Channel Registration

- 5. When this is completed, click "Create" and the bot registration will be created. After some time, this provisioning will complete, and you can navigate to the settings for the bot registration.
- 6. Next, navigate to the Channels tab for the bot registration
- 7. Click the Teams icon to enable the bot for Microsoft Teams

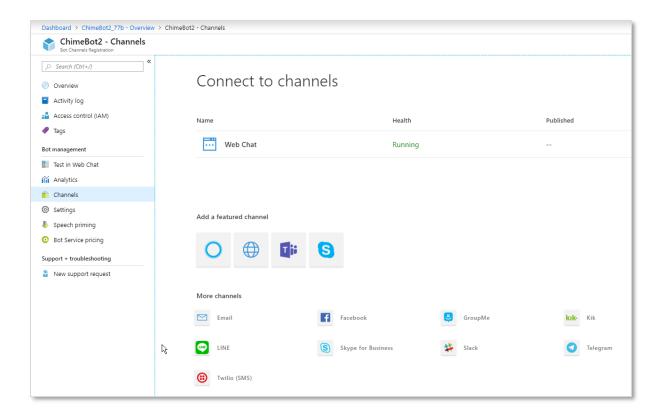


Figure 22: Click the Teams Icon

8. No additional configuration is needed for Chime functionality, so just click Save to enable the Teams channel

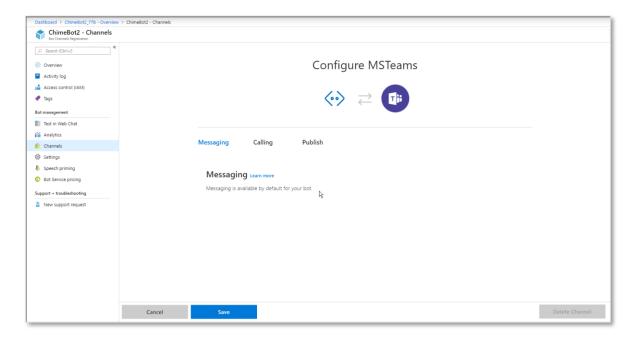


Figure 23: Configure MSTeams

9. If the Chime web client is going to be used to contact the queue, it is also necessary to configure the Direct Line channel

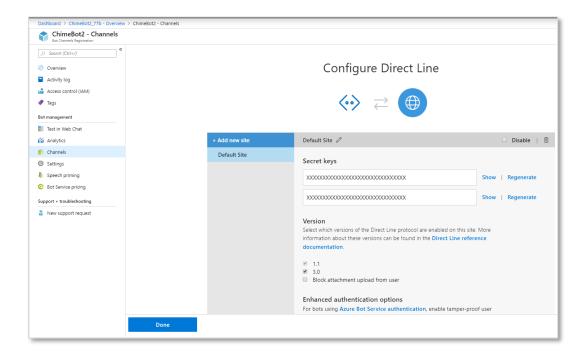


Figure 24: Configure Direct Line

- 10. Click on the Show button to reveal the **Direct Line secret key**. Save this value, as it will be required later to configure the bot in Chime.
- 11. Next navigate to the Settings tab on the bot registration.

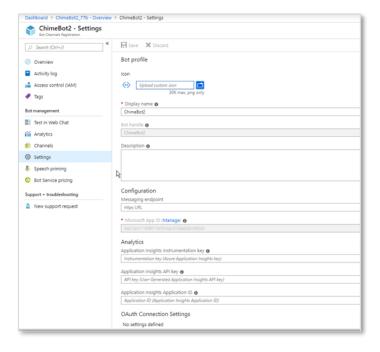


Figure 25: Bot Settings

- 12. You may upload a custom avatar image and customize the Display Name of the bot if you choose.
 - Note the **Bot handle** and **Microsoft App ID** fields here, as they will be needed to configure the bot in Chime.
- 13. At the present time, there is no way to determine the password that is associated with the automatically created App ID for the bot registration, so it is necessary to create a new password. Click the Manage link next to the Microsoft App ID field.
 - This should bring you to a new page where it is possible to create a new password. Click the "Generate New Password" button and note the password value that is generated it is not possible to recover this password later after it has been generated and will be necessary to configure the bot in Chime.

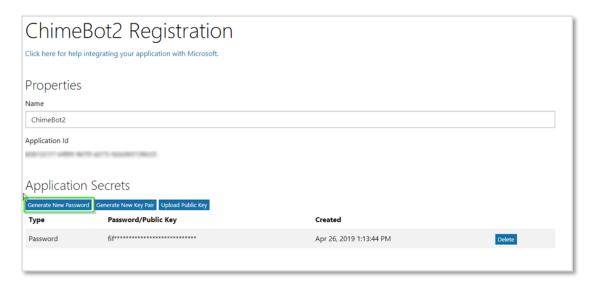


Figure 26: Bot Registration App Secret

14. With the Bot Handle, App ID, App password, and Direct Line secret, it is possible to setup the bot as a dispatcher in Chime. Navigate to your Chime server, and then to Admin/Dispatchers, and click the New Dispatcher button.

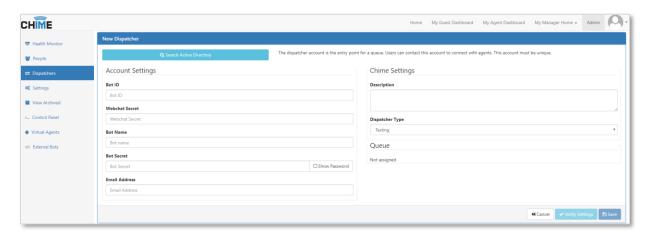


Figure 27: Add New Dispatcher in Chime

- 15. Enter the information from the bot registration in the following fields:
 - a. Bot ID: the Microsoft App ID of the bot registration
 - b. Webchat Secret: The Direct Line secret key
 - c. Bot Name: The Bot Handle
 - d. Bot Secret: The Microsoft App ID password
 - e.
- 16. Once this is completed, you should be able to verify and then save the new dispatcher.
- 17. Once the dispatcher has been created in Chime, the next step is to create a new queue or add the dispatcher to an existing queue. Once this is done, you should see a block on the queue settings page that displays the URL for the messaging endpoint for the queue when it is running in Chime:

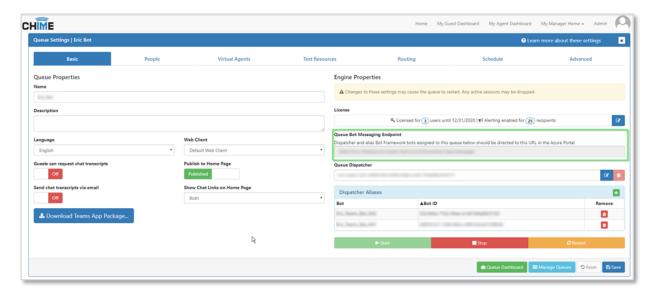


Figure 28: Chime Queue Settings

18. Take this URL, and go back to the Bot Channel Registration in the Azure portal, then navigate to the Settings tab.

Paste this URL into the Messaging endpoint field for the bot and save the changes.

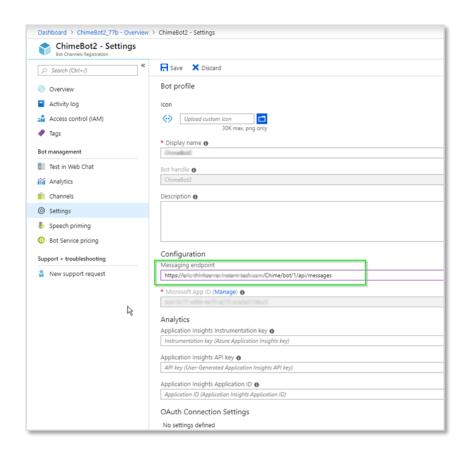


Figure 29: Settings - Configuration