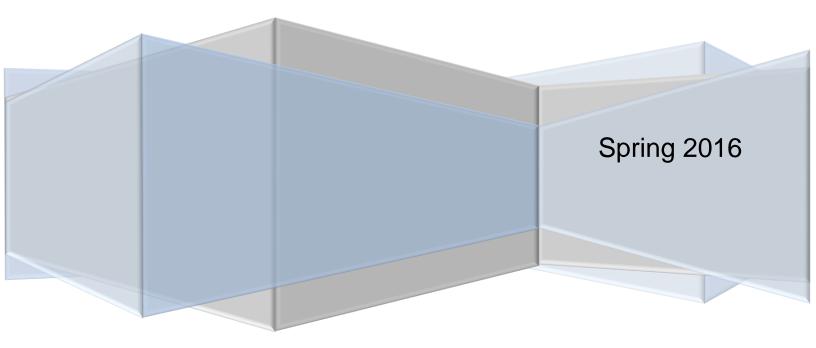




# **INSTALLATION GUIDE**



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# CHIME INSTALLATION GUIDE

## SYSTEM REQUIREMENTS

- 64-bit Windows Server®: 2008 R2, 2012, 2012 R2
  - Server 2008 R2 requires Desktop Experience feature to be installed
     Server 2012/2012 R2 requires Media Foundation feature to be installed
- Application cannot be installed on the same server hosting Lync<sup>®</sup>. Application will conflict with Lync<sup>®</sup> settings.
- Connection to Microsoft SQL Server®. The application supports full SQL Server® or SQL Express Edition®
  - SQL server can be installed on the same server hosting Chime for Lync®, but it is recommended for larger implantations that it be on a separate server.
  - Account with create access to SQL server (for building and updating the Chime database).
  - Account with read\write access to Chime database
    - The application supports both SQL and Windows server authentication options.
    - *Note:* For optimal performance, Chime and SQL Server should be in the same physical site.
- Read Access to Windows Active Directory

Chime 2.x (Self hosted) with Lync On-Premise support

- .Net Framework 4.5.1+
- UMCA 4.0
- SQL Server 2008 R2+ (SQL Express, Standard, Enterprise...)
- 1 Lync account for Web Client
- 1 Lync account per queue for dispatcher

Chime 2.x (Self hosted) with Office 365 support

- .Net Framework 4.5.1+
- UMCA 4.0
- SQL Server 2008 R2+ (SQL Express, Standard, Enterprise...)
- Office 2013 Lync (Lync 2013 Basic cannot be used)
- 1 Office 365 Lync account for Web Client\*
- 1 Office 365 Lync account per queue for dispatcher\*

\*Lync Online Plan 2 and Microsoft Office 365 with Lync Plans are supported

## HARDWARE RECOMMENDATIONS

The following are the recommended hardware configurations for Chime for Lync

# of Queues	# of Agents	RAM	Processor	Data Storage	Database Size
1-2	10	4 GB	1 - 2 Core	80 - 100 GB	4 GB
2+	10+	6-8 GB	2 - 2-4 Core	150 - 200 GB	8 - 10 GB

#### REQUIRED ACCOUNTS:

The following accounts will be need for the installation and/or operation of Chime.

#### **Active Directory Query Account**

This account will be used by Chime to query Active Directory for users.

AD Server Name:\_\_\_\_\_

AD Username:

Password:

#### Chime Database Installation Account

This account is used to create the Chime database during the installation.

- This account requires admin privileges on the SQL server.
- This account must use SQL Authentication.
- This account information is not stored, and is only utilized during creation or updating.

SQL Server Name:\_\_\_\_\_

Username:

Password:

#### **Chime Database Service Account**

This account will be used by Chime to read and write information to the Chime database and can use SQL or Windows Authentication.

Username:

Password:

#### **Chime Service Account**

This account will be used as the login for running the Chime Service in Windows.

- If this organization is using Office 365 Lync, use the Chime Service account to install Chime for Lync.
- If using Windows Authentication on the SQL connection, this must be the same account.
- This account must be granted the Local Security Setting of "Logon as a service". For information, see the Log On As A Service section of this document.
- This account must be a member of the Chime server's local Administrator group or a member of the Domain Admins group of the domain to which the Chime server is joined. This is required for the OWIN web server components which power the Chime web interface to operate.
- This account needs to be logged in at all times. Please remove any Group Policy auto logouts for this account.

Username:

Password:

#### Web Seeker Account

This account will be used by Chime to connect request from the web chat to Lync experts.

- This account cannot be the same as a **Dispatcher Account**.
- This account needs to be Lync enabled.
- This account cannot be used by any other persons or applications.

AD Username:

Password:

#### **Dispatcher Accounts**

This account will be used by Chime to connect request from a seeker to Lync experts.

- This account cannot be the same as the Web Seeker Account.
- This account needs to be Lync enabled.
- Each queue will need a separate dispatcher.
- This account cannot be used by any other persons or applications.

## CHIME SETUP WIZARD

Once the required accounts have been provisioned for Chime, you are ready to begin the installation of the Chime application. *If this organization is using Office 365 Lync, use the Chime Service account to install Chime for Lync.* 

1. Run ChimeSHInstaller.exe. You will be prompted with the Chime for Lync Setup wizard.



Figure 1: Chime for Lync Setup Wizard

2. Click **Next** to proceed through the Setup wizard.

During the setup, you will need to enter the credentials for the following required accounts:

- Active Directory Query Account
- Chime Database Installation Account
- Chime Database Service Account
- Chime Service Account
- Web Seeker Account

#### ACTIVE DIRECTORY

The first required account is Active Directory. You will need the Active Directory account information to fill out this section.

5	Chime For Lync Setup
-	account will be used by Chime to get AD user infomation.
	AD Server FQDN or IP Address: VInstantTechDC AD Username: svc_chime AD Password: ••••••
Advanced	Installer

Figure 2: Active Directory Configuration

- 1. Enter the Active Directory Fully Qualified Domain Name, or IP Address of the server hosting Active Directory.
- 2. Enter the username that Chime can use to query Active Directory.
- 3. Enter the password for the username provided. The password will be encrypted. Chime requires read access of your Active Directory.
- 4. Click **Next** once you have entered the Active Directory account information.

#### CHIME DATABASE

Chime requires an account with administrative rights to the SQL database. In this section of the Setup wizard, the Chime database will be created. Chime requires read/write access to its own database.

#### CREATE/UPDATE THE DATABASE

5	Chime For Lync Setup	x
	e Database er an account to install the Chime Database.	CHIME
3	SQL Server FQDN or IP Address: VITQA2012R2O365\sqlexpress SQL Authentication Username: SA	
	SQL Authentication Password:	]
Advanced	Chime Installer Kack	Test Connection Next > Cancel

Figure 3: Chime Database Setup

1. Enter the Fully Qualified Domain Name or IP address of the SQL Server where the Chime database will be installed.

Ex. <ServerName>\<InstanceName>

Ex. <ServerName>\<InstanceName>,<CustomPortNumber>

- 2. Provide the username of the account that will be used to create the Chime database. This account needs *sys\_admin* rights for the SQL Server.
- 3. Enter the password for the SQL account.
- 4. Click on **Test Connection** once the required account information has been entered.
- 5. If successful, Next will become active.
- 6. Click **Next** to proceed.

## CONFIGURE DATABASE SERVICE ACCOUNT

5	Chime For Lync Setup	x
	SQL Connection the account Chime will use to connect to the database.	CHIME
	SQL Authentication     Windows Authenticaiton Chime SQL Username:	
Advanced I		Next > Cancel

Figure 4: Configure Database Service Account

1. Choose the authentication scheme Chime will use to connect to the database.

If using SQL Authentication:

- a. Enter the username for the service account Chime will use to access the database.
- b. Enter the password for the service account

If using Window Authentication, the service account provided in the next screen will be used to connect to the database.

2. Click **Next** to proceed.

### SERVICE ACCOUNT

The Chime for Lync Service account is the account that will be used to run the Chime Self-Hosted application.

To Chime For Lync Setup
Chime for Lync Service
Enter the account the Chime for Lync service will use.
This account will be used as the login for the Windows Service. If using Windows Authentication on the SQL connection, this must be the same account.
This account must be granted the Local Security Setting of "Logon as a service" and this account must be a member of the Chime server's local Administrator group
Domain:
instant-tech.com
Service Username:
svc_chime
Service Password:
•••••
Advanced Installer

Figure 5: Chime Service Account

- 1. Enter the name of the domain that the Chime service account belongs to.
- 2. Provide the username of the account that will be used to run Chime.
- 3. Enter the password for the provided username.
- 4. Click **Next** to proceed through the installation.
- 5. Click **Install** to begin installation of the Chime application.

#### ACTIVE DIRECTORY AUTHENTICATION SCHEME

Beginning with Chime 2.4, we support using Azure AD for Chime deployments against Office 365. For more information on how to obtain the information required for this setup, see the document titled *Configuring Azure AD access for Chime for Lync.* 

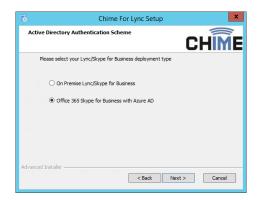


Figure 6: Choose deployment type

For On Premise deployments, choose the corresponding option, and proceed to the next section.

For Office 365 deployments, choose the corresponding option and complete the following steps:

#### AZURE AD INTEGRATION

#### **PREREQUISITES:**

A.) Follow the instructions outlined in Configuring\_Azure\_AD\_access\_for\_Chime\_for\_Lync.pdf

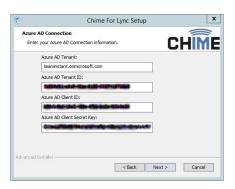


Figure 7: Provide Azure AD information

- 1. Enter the name of your Office 365 tenant in the input labeled **Azure AD Tenant**. This is usually the domain associated with your Office 365 email address, e.g. example.com.
- 2. Enter the Azure AD Tenant ID obtained in the corresponding input.
- 3. Enter the Azure AD Application ID obtained in the corresponding input.
- 4. Enter the Azure AD Application API Key in the input labeled Azure AD Client Secret Key.

## WEB CLIENT CONFIGURATION

## **ON-PREMISE WEB CLIENT CONFIGURATION**

S Chime For Lync Setup	x
Web Seeker Account Please enter in the information for the web seeker account.	CHÎME
Web Client SIP URI:	
sip:mattdevtestweb@instant-tech.com	
Web Client Username:	1
mattdevtestweb	
Web Client Password:	,
•••••	
Web Client Domain:	
instant-tech	
Lync FE Pool/Server URL:	,
vitlyncfe.instant-tech.com	
Advanced Installer	
< Back	Next > Cancel

Figure 8: Web Client configuration screen

- 1. Enter the information requested in the appropriate fields.
- 2. Click **Next** to continue.

## OFFICE 365 WEB CLIENT CONFIGURATION

5	Chime For Lync Setup	×
	eeker Account se enter in the information for the web seeker account.	CHIME
	Office 365 Domain:	
	instant-tech.com	
	Office 365 Username:	-
	qaweb	
	Office 365 Password:	-
	•••••	
	Office 365 SIP URI:	-
	qaweb@instant-tech.com	
	Office 365 Skype for Business URL:	-
	sipdir.online.lync.com:443	The URL shouldn't need to be changed.
Advanced	Installer	
	< Back	Next > Cancel

Figure 9: Web Client configuration screen

- 1. Enter the information requested in the appropriate fields.
- 2. Click **Next** to continue.

## **READY TO INSTALL**

Press the Install button to begin installing Chime.

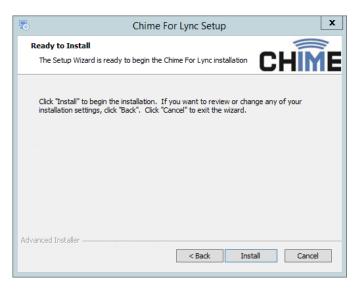


Figure 10: Install Chime



Figure 11: Install Complete

Click Finish to close the setup wizard and launch the configuration wizard.

## CHIME CONFIGURATION WIZARD

Once all the required account information has been filled out in the Chime Setup wizard, you will be prompted with the next part of the installation, the Configuration Wizard. In this section you will do the following:

- Verify Active Directory account information
- Verify and test connection to the SQL Database
- Setup the Chime Web Client
- Pick the first administrative user for the Chime application
- Configure SSL Certificates (optional)

	Configuration Wizard	x
•	Configure AD Provide the basic information to connect to search your Microsoft Active Direct	
te	Configure SQL Provide access to SQL Database	
Instant	Setup Web Client Setup the Chime On-Premise Web client (optional)	
st	Setup Web Client Setup the Chime Office 365 Web client (optional)	
₀⊆ (	Pick Admin Pick a user as an administrator for Chime	
	Chime for Lync Service Start Stop	STOP
Fu	her documentation and setup information can be found at <a href="http://addchime.com/faa.html">http://addchime.com/faa.html</a>	
s	Clor SSL Clor	se

Figure 12: Configuration Wizard

#### CONFIGURE ACTIVE DIRECTORY

In the first step of the configuration wizard, you will need to verify your active directory credentials.

#### **ON PREMISE**

- 1. Click Configure AD.
- 2. Enter the Active Directory FQDN, username, and password (if not provided during the previous installation process).
- 3. Click Validate.

	Configure	Active Directory	
Enter the AD server IP address or fully qualified domain name vinstanttechdc			
Enter th svc_chi	e AD Usemame me		
Enter th	e AD Password		
Valid	ate	Cancel OK	

Figure 13: Active Directory

- 4. Click **OK** on the alert once you have been notified that we've successfully connected to Active Directory.
- 5. Click **OK** to proceed to the next step.

#### **OFFICE 365**

Verify that the information in these fields matches what was provided during the installation phase. You can test to be sure that we can connect using the information provided using this tool.

- 1. Click Test... to verify that we can connect using the provided information.
- 2. Click **Save** to save the information and close the window.

Setup Azure AD Connection
Azure AD Tenant:
teaminstant.onmicrosoft.com
Azure AD Tenant ID:
5x405x01-e8x8-45xe-8160-0007416728x5
Azure AD ClientID:
0000000-1000-4000-0000-40000000
Azure AD Client Secret Key:
CWarLe Tele 95/1665/16 Kehingleim XZs-Unin-Insela ArRY-
Test
Save

Figure 14: Azure AD Connection info

If any of this information is missing, please refer to Configuring\_Azure\_AD\_access\_for\_Chime\_for\_Lync.pdf

#### CONFIGURE SQL

In this section you will need to enter the required account information for the Chime SQL account. This account needs read and write access to the Chime database.

- 1. Click **Configure SQL** in the configuration wizard.
- 2. Enter the name of the SQL instance that Chime will be hosted on.

	Configure SQL Connection	
Enter the SQL Se	erver IP address or fully qualified domain name	
vITQA2012R2O3		
Chime Database	name	
Chime		
Chime SQL A	ccount Chime uses this account to read and write database and will be saved.	from the
Authentication:	Windows Authentication	~
Usemame:	instant+tech.com\svc_chime	
Password:		
	Cancel Test Connection	ОК

Figure 15: SQL Connection

- 3. Select the appropriate authentication method for the Chime SQL account.
- 4. Enter the username and password for the Chime SQL account.
- 5. Click on **Test Connection** to test the connection to the database.

	Configure SQL Connection
	he SQL Server IP address or fully qualified domain name
	2012R2O365\sqlexpress
Chime	
Chin	ne SQL Account Chime uses this account to read and write from the database and writ be saved.
Aur	x
Us Pa	Successfully connected to vITQA2012R2O365\sqlexpress as instant-tech.com\svc_chime
	ОК
	Cancel Test Connection OK

Figure 16: Test SQL Connection

- 6. Click **OK** once you have successfully connected to the database.
- 7. Click the green **OK** button in the Configure SQL Connection window to proceed to the next step.

#### SETUP WEB CLIENT (OPTIONAL)

There are two options in the configuration wizard for setting up the Web Client:

- 1. Setup the Chime On Premise web client uses your On Premise Lync Server
- 2. Setup the Chime Office 365 web client uses an Office 365 Lync-enabled account

## SETUP ON PREMISE WEB CLIENT

Follow these instructions to setup the Web Client with an On Premise Lync Server.

- 1. Click Setup Web Client... in the configuration wizard.
- 2. Enter a SAM account name to search for, and click **Search for Lync Account**. The wizard will query Active Directory for a Lync-enabled account matching the provided name.
- 3. Select the desired account, and the wizard should pre-populate whatever fields it can obtain from Active Directory.
- 4. Provide information for any missing fields.
- 5. Click Verify, and the wizard will attempt to log in using the credentials provided.
- 6. Click **OK** once the information has been verified to save the values and close the window.

2	Setup Chime Web Client	¢
mattdev sip mattdevtestdispatch@in sip mattdevtestweb@instan		]
Account SIP URI: Account Usemame: Account Password:	sip mattdevtestweb@instant4ech.com mattdevtestweb	] ] ]
Account Domain: Lync FE Pool/Server URL: Venfy	Show Password? Instant-tech vitlynofe_instant-tech.com Cancel OK	]

Figure 17: Web Client configuration

## SETUP OFFICE 365 WEB CLIENT

Follow these instructions to setup the Web Client with an Office 365 account.

- 1. Click Setup Web Client... in the configuration wizard.
- 2. Provide the required information for the web client dispatcher account.
- 3. Click Test, and the wizard will attempt to log in using the credentials provided.
- 4. Click **OK** once the information has been verified to save the values and close the window.

🖸 Se	tup Chime Office 365 Web Client
In order to proxy conversati the following Office 365 Lyr	ions from Office 365 Lync to your local Chime instance, Chime will use nc account.
Office 365 Lync account	
Domain:	instant-tech.com
Lync Usemame:	qaweb
Lync Password:	•••••••••• Show Password?
Account SIP URI:	qaweb@instant.tech.com
Lync Server URL: sipdir.online.lync.com:443	The URL shouldn't need to be changed

Figure 18: Web Client Configuration

Account SIP URI: The SIP URI for a Lync-enabled Office 365 account. The Chime Web Client will log in as this account.

Account Domain: The name of the domain that the chosen Office 365 account belongs to.

Account Username: The full username of the chosen Office 365 account.

Account Password: The password for the username provided.

Lync Server URL: Provide the Lync Server URL. For Office 365 this should be: *sipdir.online.lync.com:443* 

#### PICK ADMIN USER

Chime will need a Lync-enabled account to be configured as the first Admin user of Chime. That person will be able to add other people once they log in.

- 1. Click on **Pick Admin** from the Configuration Wizard.
- 2. Enter the partial or full username of the person who will be the first admin. Click Search to find the user.

Choose an Admin User	, <b>x</b>
Enter the email of the first administrator, who will add other users, managers, and admin ex: jwayne	s.
cr	Search
cregan@instant-tech.com	
Check User Cancel	OK

Figure 19: Pick Admin User

3. Select the correct user from the list, and click Check User.

	Choose an Admin User	x
	the email of the first administrator, will add other users, managers, and admins. ayne	
crega	User Found X	
creg	User cregan@instant-tech.com is valid	
Ch	ОК	

Figure 20: Check User

4. Once you've verified that the user picked is valid, click OK. Then, click OK in the Choose Admin user window to proceed to the next step of the Configuration Wizard.

#### SETUP SSL (OPTIONAL)

The configuration wizard provides a tool to register an SSL certificate with the Chime application. As a prerequisite, you will need to have a valid SSL certificate installed on the server. Once the certificate has been installed on the server, you can follow these steps.

- 1. Click Setup SSL.
- Click through the prompts to register listeners for ports 80 and 443 (or click OK if already reserved).



Figure 21: URL Reservations

 Select the desired SSL Certificate from the list provided. Click on the desired certificate and click OK to try and use that certificate. If you don't see the certificate desired, click Cancel, and another list will be displayed.



Figure 22: Selecting SSL Certificates

4. Click to **OK** to execute the command to register the SSL Certificate.

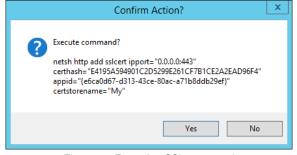


Figure 23: Executing SSL command

#### START THE CHIME APPLICATION

## STARTING FROM CONFIGURATION WIZARD

Click the Start button on the configuration wizard to start the Chime service.

#### STARTING THROUGH SERVICES

- 1. Log on to the server that Chime is hosted on.
- 2. Go to the Control Panel, and navigate to Administrative Tools.
- 3. Open 'Services'.
- 4. Find 'Chime for Lync' in the list of services.
- 5. Right-click on Chime for Lync and click 'Start'.

## ISSUES STARTING THE CHIME APPLICATION

#### UNABLE TO START THE CHIME SERVICE – INCORRECT LOGON

If you are unable to start the Chime service due to a logon failure, it's possible that you entered the incorrect credentials for the Chime Service account during the install. To verify these credentials, follow these steps:

- 1. Log on to the server that Chime is hosted on.
- 2. Go to the **Control Panel**, and navigate to **Administrative Tools**.
- 3. Open 'Services'.
- 4. Find 'Chime for Lync' in the list of services.
- 5. Right-click on Chime for Lync and click on 'Properties'.
- 6. Navigate to the '**Log On**' tab.
- 7. Click OK once the account credentials have been changed or verified.
- 8. Follow the steps to start the Chime service.

#### UNABLE TO START THE SERVICE - LOG ON AS A SERVICE

Please review the steps in the Log On As A Service section

## ACCESS THE CHIME APPLICATION

Once you've successfully installed Chime, you are ready to access the application.

1. Type in the URL of the Chime instance. It will look something like this:

http://<ServerName>.<DomainName>/chime

- or -

http://<IPAddress>/chime

- 2. Log in to the application.
- 3. You are ready to add more administrators, agents, and start routing chats.

⇒ C 🗋	192.168.1.82/Ci	nime						\$
HIME					My Dashboard	System Dashboard	Queues Adm	in Hello, cregan
	Cassie Regan		0 Conversations	00:00: Average Speed		00:00:00 Avg. Chat Duration		00:00:00 Il Chat Duration
Queues		Ø	Agent Activity for Cassie Re	egan				
			Chats Today					
			Chats Today		No Data	1		
			Chats Today Chat History		No Data	1		

Figure 24: Chime Agent Dashboard

## APPENDIX

#### LOG ON AS A SERVICE

If you are unable to start the Chime service, and receive an error message that the account doesn't have the proper rights, you will need to give administrative rights to the Chime Service account.

- 1. Log on to the server that Chime is hosted on.
- 2. Go to the **Control Panel**, and navigate to **Administrative Tools**.
- 3. Open 'Local Security Policy'
- 4. Under 'Local Policies', click on 'User Rights Assignment'.
- 5. Click on 'Log On as a Service', and then click on Add User or Group.
- 6. Enter the service account name, and click 'Check Names'
- 7. Click OK once you've selected the service account to add.
- 8. Follow the steps to start the Chime service.