





Messaging Gateway

Installation & Setup Guide

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Introduction

Cloud Alert is a comprehensive solution for the alert and notification requirements of financial institutions and other enterprises.

One of the components of the Cloud Alert Platform is the Cloud Alert Messaging Gateway - an on-site deployed system that integrates with the organization's databases to send alerts and OTP messages to handsets.

About this document

This document is intended for system administrators and IT personnel who wish to install and configure the Cloud Alert Messaging Gateway.

Installation Requirements

The following items are required to install the Messaging Gateway:

- Microsoft Windows 7 or higher 32 bit or 64 bit. All editions including Windows Professional and Windows Server are supported.
- 2 GB free RAM (additional based on plugin requirements).
- 1GB Disk space (additional required for logs).
- A JavaScript-capable web browser (IE11 or higher / Firefox 45 or higher/Google Chrome 55 or higher/Microsoft Edge).
- JDBC drivers for your database.
- Messaging Gateway Installation package (in zip or other format).
- A Cloud Alert account for sending messages through Cloud Alert.

The below components are not required if you have downloaded the 'Full Download' installation package. The full installation package already includes these components and installs them as part of the regular installation.

• Oracle Database for use as a private data store for the Messaging Gateway (Oracle 11g or higher)

Installation package

You can choose between 2 installation packages from the messaging gateway download window. Both the packages are a zip file containing the messaging gateway executables and documentation. This document is also present within this package in the \cag\webpub\docs directory.

Full Download

This package contains the following components

- Messaging Gateway Executables
- Installer for Oracle Express 11g

This package is useful, if you do not have an existing Oracle database installation.

Alternate Download

Download this package if you already have an existing Oracle database installation, or intend to obtain Oracle separately. The executables in this package are identical to the Full Download, but excludes the Oracle Installer, thus reducing the size of the download.

Preinstallation

In this step, we unzip the provided zip file into the **c:\cag** directory. This directory is the recommended location for the installation - the application will not execute in any other location.

To begin, right-click on the provided zip and select 'Extract All'.

Extract Composited (Zinned) Folder	
(3) Extract Compressed (Zipped) Polders	
Select a Destination and Extract Files	
Files will be extracted to this <u>f</u> older:	
C:\	Browse
Show extracted files when complete	
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Snow extracted files when complete	

Installation

Kindly follow the below steps to Install and setup the Messaging Gateway.

1. Right-click on the setup file in the c:\cag directory and click on Run as administrator

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14 items 1 item se	elected 2	227 bytes		SI SI	an with	Windows Defender				

2. In the **Welcome** window click on **Next**

Cloud Alert Messaging Gateway - Setup	_	×
Welcome		
Welcome to the setup wizard for the Cloud Alert Messaging Gate	way.	
This will help you install and configure the gateway on this comp	iuter.	
To continue, dick Next.		
	Cancel	Next >

- 3. In the **Oracle Installation** window kindly choose the required option:
 - If you already have an existing Oracle database installation on this computer or elsewhere on your network, click on **Skip Oracle Installation**.
 - If you do not have an existing Oracle database installation, select **Install Oracle**. Note that this option will be grayed out if you chose the download that did not include the Oracle Installer.

Cloud Alert Messaging Gateway - Setup	×
Oracle Installation	
The Cloud Alert Messaging Gateway requires an installation of the data.	Oracle Database to store its
This package includes the Oracle Installer.	
Select this option for the wizard to install the Oracle database on this computer.	Install Oracle
Select this option if you already have an existing Oracle database installation on which you would like to configure the gateway.	Skip Oracle Installation
	Cancel

If you choose **Skip Oracle Installation**, kindly skip to point **13** in this series of installation steps other wise continue to the next step.

4. The Oracle installation will now start. The Cloud Alert Setup Wizard will remain in the background until the Oracle installation is complete.



5. Click on the **Next** button to continue.



6. Kindly **accept** the license terms and click on the **Next** button.

Oracle Database 11g Express Edition - Install Wizard	×
License Agreement Please read the following license agreement carefully.	
Oracle Technology Network Developer License Terms	^
for Oracle Database Express Edition	
Export Controls Export laws and regulations of the United States and any other relevant I export laws and regulations apply to the programs. You agree that such export control laws govern your use of the Program (including technical of and any services deliverables provided under this agreement, and you a	ocal lata) qree V
accept the terms in the license agreement	<u>P</u> rint
○ I <u>d</u> o not accept the terms in the license agreement	
InstallShield	Cancel

7. Click on the **Next** button to continue.

n - Install Wizard	×
all files.	CATABAS Express Edition
11g Express Edition in the following fol	der.
To install to a different folder, click Bro	wse and select
Edition	631124 K
	Browse
631124 K	
20373388 K	
	n - Install Wizard all files. 11g Express Edition in the following fol To install to a different folder, click Bro Edition 631124 K 20373388 K

8. Specify a new password for the Oracle database SYSTEM account. Note down this password, as it will be required in later steps. Click **Next** to continue.

Oracle Database 11g Exp	ress Edition - Install Wizard	×
Specify Database P	asswords	DATABASE EXPRESS EDITION
Enter and confirm passw the SYSTEM database a	ords for the database. This password will be used for both t accounts.	he SYS and
Enter Password	•••••	
<u>C</u> onfirm Password	•••••	
InstallShield		
	<u>B</u> ack <u>N</u> ext	Cancel

9. Now, click on the **Install** button to start the Oracle database installation.

Review settings before proceeding with the installation		ACLE
The view settings before proceeding with the installation.	C A T	A B A 3 I
Current Installation Settings:		
Destination Folder: C:\oraclexe\ Oracle Home: C:\oraclexe\app\oracle\product\11.2.0\s Oracle Base:C:\oraclexe\ Port for 'Oracle Database Listener': 1521 Port for 'Oracle Services for Microsoft Transaction Serve Port for 'Oracle HTTP Listener': 8080	:erver\ r: 2030	^
		×
<	-	

10. Wait until the Oracle Database installation completes. This might take several minutes.

Oracle Database 11g Express Edition - Install Wizard	×
Setup Status	
The InstallShield Wizard is installing Oracle Database 11g Express Edition	
nstallShield	
	Cancel

11. Once the Oracle database installation completes click on the **Finish** button.



12. Now, we return to the Cloud Alert Setup Wizard. Since the Oracle Database installation is complete, click Next to continue.

Cloud Alert Messaging Gateway - Setup	×
Launching Oracle Installer	
The Oracle installer is being launched	
Ensure that the Oracle installation has completed, then dick Next.	
Next >	

13. The **Database Connection Settings** window will now be displayed, which accepts the settings for the Oracle Database.

The Setup Wizard can create a user on Oracle for you. Alternatively, you can create the Oracle user yourself.

- Automated user creation: Simply enter the username and password for the SYS or SYSTEM login on your Oracle Database. Oracle will use this administrative login to create a new user named 'CAG'. The tables and other database objects will be created in the login of the CAG user, not SYS/SYSTEM.
- Manual user creation: Create a user on Oracle by yourself, and enter the credentials of this new user. In this case, there is no restriction on the name of the user. Note that the new user must have the CONNECT, RESOURCE, UNLIMITED TABLESPACE, CREATE TABLE, CREATE VIEW, CREATE SYNONYM and CREATE SEQUENCE rights. This option is not available if the download package includes the Oracle Installer.

After entering the settings, click on the **Test Connection** button to test the database connectivity.

Cloud Alert Messaging Gateway - Set	up			×
Database Connection Settings				
Enter the connection settings for your O	racle installa	ition.		
IP Address / Host Name	Port	ļ	Username	
Database SID		ן ר	Password	
Cancel		Test C	onnection	Next >

If you did not skip the Oracle Installation, most of the fields will be pre-filled for you. Enter only the password for the SYSTEM login that you had entered during the Oracle Database Installation process, then click **Test Connection** to test the database connectivity.

Cloud Alert Messaging Gateway - Setu	р		×
Database Connection Settings			
Enter the connection settings for your Or	acle installati	on.	
Some of the settings have already been t Enter the system password that you had	filled. specified duri	ng the Oracle installation.	
IP Address / Host Name	Port	Username	
127.0.0.1	1521	system	
Database SID		Password	
XE		•••••	
			_
Cancel	1	Test Connection Next >	

Cloud Alert Messaging G	ateway - Setup			×
Database Connection S	ettings			
Enter the connection settin	gs for your Oracle installatio	on.		
Some of the settings have	already been filled.			
IP Address / Host Name	Connection Successfu		×	
127.0.0.1	Connection successfu	I. Click Next to continu	Je,	
Database SID		ок		
XR				
Can	cel	est Connection	l Ne	ext >
1		1	22	1

14. Once the database connection test is successful, click **Next** to continue.

Cloud Alert Messaging Gateway - Set	up	×	<
Database Connection Settings			
Enter the connection settings for your O Some of the settings have already been	racle installa filled.	tion.	
IP Address / Host Name	Port	Username	
127.0.0.1	1521	system]
Database SID		Password	
XE		•••••]
Cancel		Test Connection Next >]

15. If your installation is using the automated user creation, i.e, the SYS/SYSTEM credentials were specified during database connectivity, the installer will now create a new Oracle user for the Messaging Gateway setup. Click on the **Next** button to continue.

This window will not be displayed if the user was created manually.

Cloud Alert Messaging Gateway - Setup	\times
Oracle User Creation	
A new login(schema) will be created on Oracle, named 'CAG'.	
Click Next to create the login.	
Cancel Next >	

16. The **Database Configuration** window will now be displayed. This step will create tables, sequences, and other database objects in your database. Click **Create Tables** to start the database configuration process.

Cloud Alert Messaging Gateway - Setup	×
Database Configuration	
The tables and other database objects will now be created. Click on the Create Tables button to start this process.	
	1
Cancel Create Table	next >

17. Once the database configuration completes successfully, click on the **Next** button to continue. Also note that if the installer has created a new Oracle user, then the credentials of the new user are displayed in the **Database Configuration** window. You may note this for future reference.

If you face any errors during the database configuration, please contact us on: support@cloudalert.cloud.

For troubleshooting purposes, a detailed installation log is generated which also includes all the sql statements executed. This file is located at C:\cag\logs\setup\install.log

Cloud Alert Messaging Gateway - Setup			×
Database Configuration			
The tables and other database objects will now be created. Click on the Create Tables button to start t	his process.		
Connected to Database using the following connection settings:			
Server: 127.0.0.1			
Port: 1521			
SID: xe			
Username: CAG			
Password: ptk59ubaewwg			
Verifying Database SchemaSchema verification successful.			
Database Configuration in Progress			
Creating Sequences Creating Sequences Done.			
Creating Tables Creating Tables Done.			
Creating Indexes Creating Indexes Done.			
creating indexes creating indexes bone.			
Configuration completed successfully.			
Click the Next button to continue			
	Cancel	Create Tables	Next >
	and have	Suff Sund Short Fallsof Sund	incar /

18. This window saves your configuration and installs the gateway as a Windows Service. Click on the **Install Service** button to proceed.

Clou	d Alert Messaging Gateway - Setup	Х
Inst The s	all Service setup wizard will now save your configuration and install the gateway as a Windows Service.	
	Cancel Install Service Next >	

19. Once the Windows service installation completes successfully, click **Next** to continue.

Cloud Alert Messaging Gateway - Setup	×
Install Service	
The setup wizard will now save your configuration and install the gateway as a Windows Service.	
Saving configuration Done	
Installing Service Done	
The configuration of the gateway is complete. Click Next to continue.	
Cancel Install Service Next >	

20. The installation of the Messaging Gateway is now complete. Click **Finish** button. This will launch the Management Console of the gateway to setup your connections.

Cloud Alert Messaging Gateway - Setup	×
Setup Complete	
This portion of the Cloud Alert Messaging Gateway Setup has completed successfully.	
Click Finish to launch the Management Console in your browser for post-installation steps.	
Finish	

Connection Setup

The Connection Setup Wizard will guide you through the setup of the Cloud Alert Message Gateway's connectivity to servers.

21. In the **Welcome** window, click on the **Next** button to continue.

P ← ■ Welcome × + ∨			-	• 🗆 X
← → O ⋒ ① 127.0.0.1:2199/fw?to=AKSLogin			□☆ ☆	L &
Cloud Alert	🏫 Home	E.Logs all Outbound	₽ Inbound	🕑 Logout
Welcome				
Welcome to the Connection Setup Wizard.				
This wizard will guide you through the process of setting up your gateway	to connect to Cloud Alert's messaging s	ervers.		
Click Next to continue.				
				Vext

22. Specify the **Email Address** and **Password** that you used to sign-up on the Cloud Alert website and also specify your **Company Email Address** and then click on the **Next** button.

→ ♡ ⋒ ⊙ 127.0.0.1:2199/fv	?from=AKSPWWelcome
Cloud Alert	🕈 Home 📰 Logs 📶 Outbound 😅 Inbound Ů Logou
Account Details	
The below information will help you f you do not have a login on Cloud	a connect this installation with your login on Cloud Alert. Alert, sign up at https://cloudalert.cloud
NOTE: Fields marked with * are required.	
	Enter the authentication details of your login on the Cloud Alert website.
EMail Address *	peter.w@mycompany.com
Password *	******
Company Email Address *	Enter your organization's email address. Since this email address will be displayed to recipients of your messages, its recommended that you enter an official contact email address, for example, 'contact@yourcompany.com'.

23. Upload a logo of your company or an image for your profile and click on the **upload** button to upload the image.

🖶 🖷 🗖 Upload Company Logo 🗙 🕂 🗸					- 0	×
\leftrightarrow \rightarrow O $\widehat{\mathbf{m}}$ \odot 127.0.0.1:2199/fw?from=AKSPWDetails			1	☆ ☆	L &	
Cloud Alert	A Home	📰 Logs	al Outbound	₽ Inbound	එ Logou	ut
Upload Company Logo						
Your company's logo is attached to messages sent by you, and v	will be visible to recipients.					
Select the logo image file to be uploaded by clicking the Browse The image file should not be larger than 3 MB.	button, then click on the 'Upload' button.					
NOTE: Fields marked with * are required.						
Upload Logo *	Browse					
					Jpload	

24. In the Confirm Details window, verify the information thats to be sent and click on the the **Next** button to continue. Your Messaging Gateway Installation is being registered and will take a few minutes to complete. Kindly wait till the process completes.

E ← Confirm Details × + ∨											o x		
$\leftarrow \ \ \Rightarrow$	C ŵ	127.0.0.1:219	9/fw?from=AK\$	PWDetailsLogo						□ ☆	☆ 1	l B	
G	Cloud Al	ert					A Home	I∎ Logs	al Outbound	📰 Inbo	und (5 Logoi	ut
Con	firm Details												
This i	installation of th	ne gateway will be	e configured v	vith the following	details:								
Ema	ail Address			m.nabil@cloud	dalert.cloud								
Clou	d Alert Website	e Username		m.nabil@cloud	dalert cloud								
The <u>c</u>	gateway will no	w connect to Clou	ud Alert's serv	ers. Click Next I	to continue:								
											Ne	ext	

25. Once the process completes, you will receive an authentication code on the email address which you had specified during the start of the setup. Kindly enter the authentication code in the **Account Verification** window and click on the **Verify** button to verify the code.

🕒 🖅 🗖 Account Verification 🛛 🕹 + 🗸	1	- 🗆 ×		
← → Ů ŵ © 127.0.0.1:2199/fwGetPostWaitPage		()	☆ ☆	r. 18 ···
Cloud Alert	me 🔡 Logs	al Outbound	₽ Inbound	O Logout
Account Verification				
Please enter below the authentication code that has been sent to your email address.				
NOTE: Fields marked with * are required.				
authentication Code *				
[1] A. B. A. A. B. A. A. M.				
				/enfy

26. Upon verification, the setup is now complete and the Home page of the Messaging Gateway is loaded.



To learn more about the Messaging Gateway, refer to the **User Guide** present in the **Documentation** section.