Keysight N8844A Data Analytics Web Service Software



Notices

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A WARNING notice denotes a hazard. It calls attention to an operating procedure, practice, or the like that, if not correctly performed or adhered to, could result in personal injury or death. Do not proceed beyond a WARNING notice until the indicated conditions are fully understood and met.

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1 Installation

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This guide describes installing the N8844A Data Analytics Web Service Software on a PC.

The software requires a PC with these characteristics:

- OS: Windows Desktop 64-bit (Windows 7 or Windows 10)
- Memory: 8G minimum
- · Performance: Quad core minimum
- · HDD Size: 500 GB minimum
- · One of these browsers:
 - Internet Explorer 11
 - Chrome
 - Firefox

When you install the N8844A Data Analytics Web Service Software on your PC, it works as a self-hosted server, and you can access the Database locally on your web browser using localhost in the URL.

When you install the N8844A Data Analytics Web Service Software on a PC that you may be accessing remotely, you can access the Database remotely on your web browser using the IP address of the remote PC in the URL.

After you purchase the N8844A Data Analytics Web Service Software from Keysight, you shall be provided the web link to download the installer file.

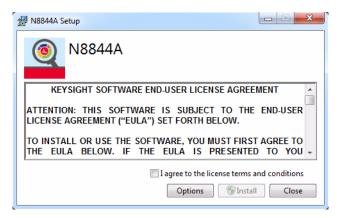


Installing the N8844A Data Analytics Web Service Software

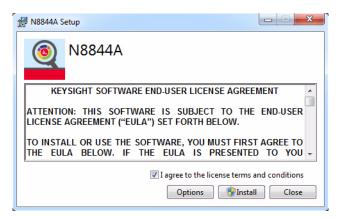
Perform the following steps to install the N8844A Software on a PC.

- 1 Download the installer file from the provided Keysight web URL to the PC.
- 2 Double-click the installer icon for N8844A to begin installing the software.

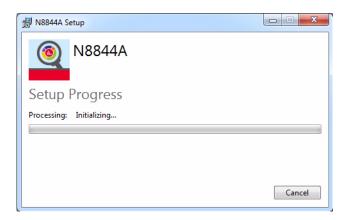
The KEYSIGHT SOFTWARE END-USER LICENSE AGREEMENT window is displayed.



3 Select the check-box for I agree to the license terms and conditions. The Install button gets enabled.



4 Click **Install** to begin installing the N8844A Software. The progress window is displayed.



5 The first part of the N8844A software installation is the installation of Keysight Cloud Services (KCS) for Windows.

Keysight Cloud Services (KCS) is a framework that provides core services for cloud-based applications, such as authentication, authorization, and licensing (although the N8844A Data Analytics Web Service Software does not use the KCS licensing).

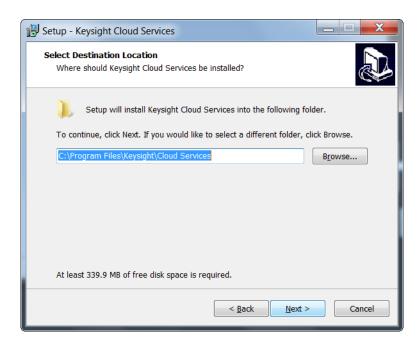
On the Keysight Cloud Services Setup Wizard screen, click **Next** to read the user License Agreement.



6 On the License Agreement screen, accept the agreement and click **Next** to specify the installation location.



7 On the Select Destination Location screen, you can either click Browse to change the installation location or click **Next** to install KCS at C:\Program Files\ *Keysight\Cloud Services*, which is the default location.

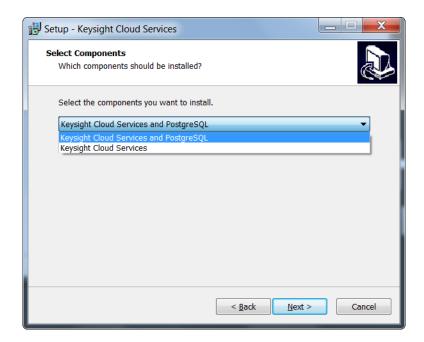


- 8 On the Select Components screen, select either of the following and click **Next**:
 - Keysight Cloud Services and PostgreSQL when PostgreSQL is not installed on your machine.

Keysight Cloud Services when PostgreSQL is already installed on your machine.

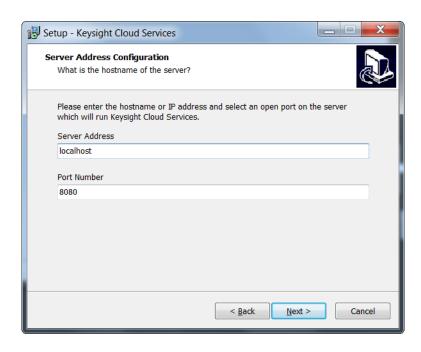
NOTE

The PostgreSQL database is used to store session information, registered applications, and access credentials for the local database.

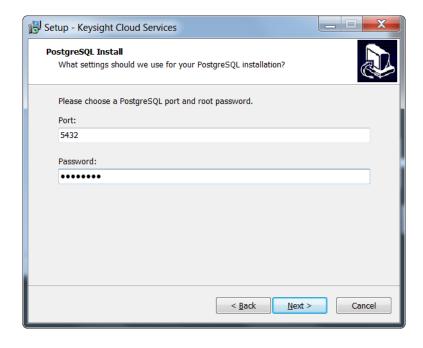


9 On the Server Address Configuration screen, specify the **Server Address** (hostname/IP address) and **Port Number** to run Keysight Cloud Services, and click **Next**.

This is the browser URL to access the server interface and the value needed by other components to access the KCS server.



10 If PostgreSQL is not installed, specify the PostgreSQL Password on the PostgreSQL Install screen and click Next.



- 11 If PostgreSQL is already installed, do the following:
 - **a** On the Select PostgreSQL Directory screen, click **Browse** to specify the installation directory and click **Next**.
 - **b** On the PostgreSQL Configuration screen, specify the PostgreSQL **Port** and **Password**, and click **Next**.

NOTE

If PostgreSQL is already installed, be sure to specify its existing port and password. Changing these here will not take effect and will cause errors.

12 On the Ready to Install screen, click Install.



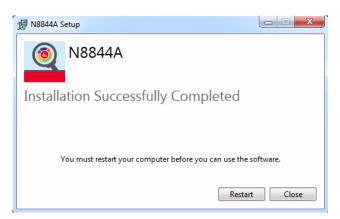
13 After KCS installation, click Finish.



NOTE

The Keysight Cloud Services installer will write the user selected installation directory to the registry. The value is written to the InstallPath property located at Computer\ HKEY_LOCAL_MACHINE\SOFTWARE\Keysight\Cloud Services.

14 When the following window that marks the end of a successful installation appears, click Restart to restart your PC.



15 After restarting your computer, use the browser URL to access the KCS server interface (specified in step 9).

When you access the URL (hostname/IP address and port) for the first time, it will launch the KCS Startup Wizard.

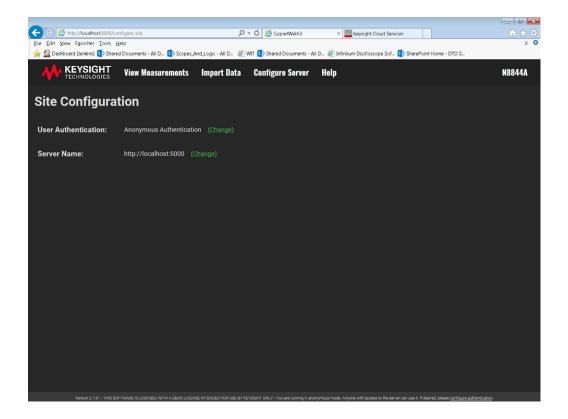
- **a** On the Welcome to the Keysight Cloud Services Startup Wizard page, click **Next** to set up the authentication provider and CoreAdmin.
- **b** On the Configure the Authentication service page, you may either set up the authentication provider now or do it later. For information on setting up authentication providers, see "Configuring the Cloud System" on page 20.
- c Click **Next** to set up the CoreAdmin user.
- **d** Specify the **User Name**, **Email**, **Password**, and **Confirm Password** of the CoreAdmin user, and click **Next**.
- **e** On the Welcome to the Keysight Cloud Services Startup Wizard (Finish) page, click **Finish** to complete the set up of the CoreAdmin user.

The Keysight Cloud Services login page is displayed.

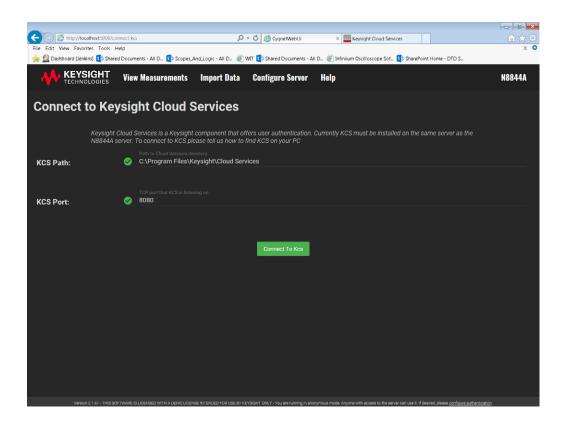
For more information on using Keysight Cloud Services, see Chapter 2, "Using Keysight Cloud Services (KCS)," starting on page 17.

- 16 Log in to the N8844A web server using port 5000.
- 17 Click Configure Server.

For User Authentication, click Change.



18 Verify the Path to Cloud Services directory and the TCP port that KCS is listening on; then, click Connect to Kcs.

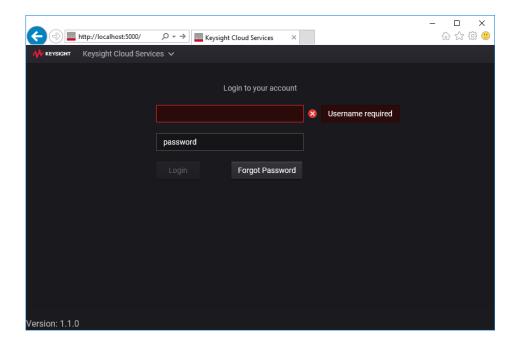


At this point, the software installation and setup is complete. Now, you are able to access the N8844A Web Service normally, either from the local server or from a remote computer. See:

- "Accessing the N8844A Web Service locally" on page 15
- "Accessing the N8844A Web Service remotely" on page 16

Accessing the N8844A Web Service locally

- 1 To access the N8844A Dataset repository locally, launch any internet browser on your PC.
- 2 On the address bar, type localhost: 5000 to launch the N8844A Data Analytics Web Service Software. The following sign-in page is displayed.



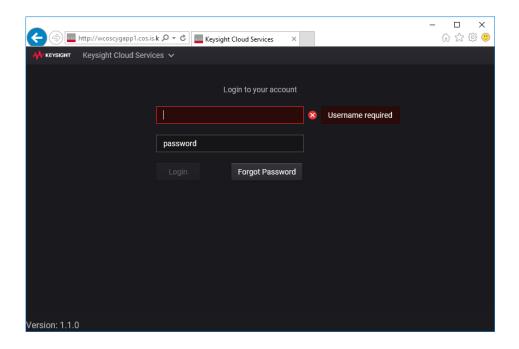
3 Proceed to sign-in with the credentials provided by the N8844A Web Service Administrator.

NOTE

The initial login email is "admin@localhost" and the initial passowd is "admin". For security purposes, you should change the password.

Accessing the N8844A Web Service remotely

- 1 To access the N8844A Dataset repository remotely, launch any internet browser on your PC.
- 2 On the address bar, type the IP address of the remote PC along with port 5000 to launch the N8844A N8844A Data Analytics Web Service Software. The following sign-in page is displayed.



3 Proceed to sign-in with the credentials provided by the Administrator for the N8844A Web Service.

NOTE

The initial login email is "admin@localhost" and the initial password is "admin". For security purposes, you should change the password.

2 Using Keysight Cloud Services (KCS)

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Working with Applications / 24
Setting Up Users / 25
Manage Roles / 28
Monitoring the System / 31

Keysight Cloud Services (KCS) is a framework that provides core services for cloud-based applications, such as authentication, authorization, and licensing (although the N8844A Data Analytics Web Service Software does not use the KCS licensing).

Keysight Cloud Services (KCS) can be used by multiple applications, giving you a common Navigation Bar and Application Monitor across standard desktop and web-based applications.

Once the Keysight Cloud Services (KCS) are installed, you can perform administration tasks, based on your user role.

CoreAdmin user

As a CoreAdmin user, do the following:

- Log into the interface. See "Accessing the Administrator Console" on page 18.
- Configure the system (for example, user authentication and system emails). See "Configuring the Cloud System" on page 20.
- Add applications. See "Working with Applications" on page 24.
- Create user accounts. See "Setting Up Users" on page 25.
- Assign roles. See "Manage Roles" on page 28.
- Monitor the system. See "Monitoring the System" on page 31.

AppAdmin user

As an AppAdmin user, do the following:

- Log into the interface. See "Accessing the Administrator Console" on page 18.
- Assign roles. See "Manage Roles" on page 28.



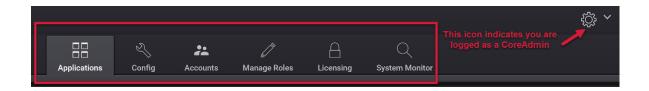
Accessing the Administrator Console

This section describes how to access the system and your initial view upon login.

CoreAdmin user

- 1 Launch your browser application and enter the KCS server's URL.
- 2 Enter your login profile's user name and password.
- 3 Click Login.

The administrator console is displayed. Because you are a CoreAdmin, all tabs are visible.



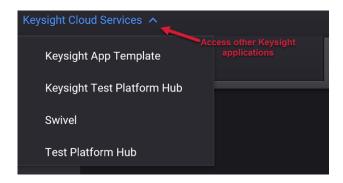
AppAdmin user

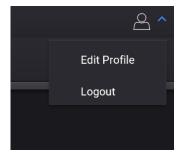
- 1 Launch your browser application and enter the KCS server's URL.
- **2** Enter your login profile's user name and password.
- 3 Click Login.

Because you are an AppAdmin user, only the Manage Roles tab is available.

Navigation

The console provides navigation options to both application and core administrators.





Configuring the Cloud System

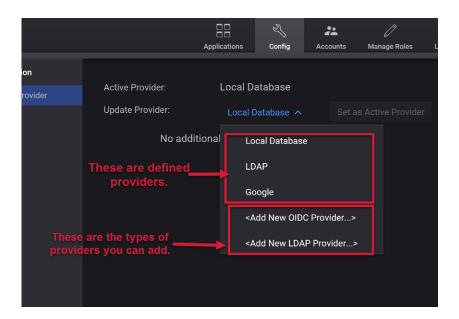
System configuration includes integrating with your authentication provider and email server.

- "Authentication provider" on page 20
- "Adding an OIDC provider" on page 20
- "Adding an LDAP provider" on page 21
- "Email server" on page 22

Authentication provider

Click **Config** in the navigation bar. On the left is a second navigation pane called General Configuration. By default, the Authentication Provider area is the start page.

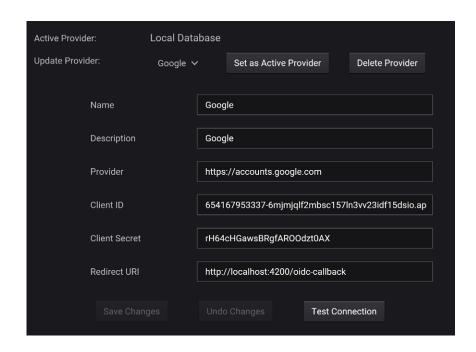
To set up a provider, click the dropdown by the Update Provider field.



Adding an OIDC provider

Select <Add New OIDC Provider...>.

Enter the **Name** and **Description** data. The other fields will need to be provided by your IT department. The **Provider** field is the provider's URL. The **Client ID** and **Client Secret**, which are specified by the provider, are needed so that the cloud service can talk to the provider. The screen below is an example of Google authentication, which uses OIDC.



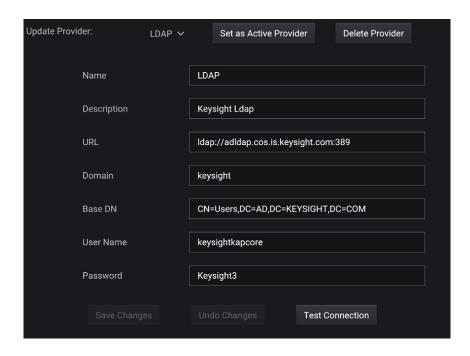
Once a provider has been created, it can be set as the active provider (where the cloud will go to authenticate), deleted, and the connection tested. When **Test Connection** is chosen, the service will reach out to the provider. The test's results are then displayed.

If changes are made, the **Save Changes** and **Undo Changes** are enabled.

Adding an LDAP provider

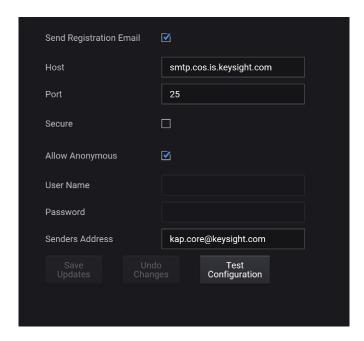
Select <Add New LDAP Provider...> from the dropdown list.

Again, with the exception of the **Name** and **Description**, the customer's IT department will provide the information. LDAP requires that queries include a user and group **Base DN**. When the user is found, the full DN (for example cn=admin, dc=example, dc=com) is used to bind with the supplied password. The server then hashes the password and compares that result with the stored hash value.



Email server

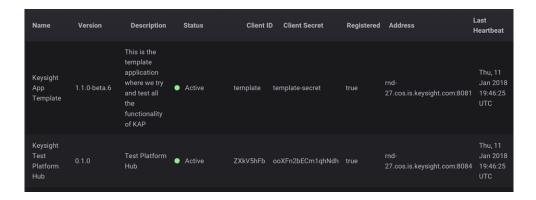
The email server needs to be configured to send the confirmation email and to reset passwords. Under General Configuration, click **Email Server**.



Note that the registration email is optional and you can choose to allow anonymous access to the server. If this is checked, the **User Name** and **Password** are not necessary. Testing the configuration simply checks whether the connection is successfully made and does not trigger a sample email.

Working with Applications

KCS provides a snapshot view of all the Keysight applications in your system and their status. Click **Applications** in the navigation bar.

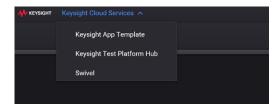


This page lists the Keysight applications registered with KCS. The client ID and secret were used by the application to identify itself to KCS during registration. When it registers, the application tells KCS its associated license set, its version, and its address. Once registered and connected, the service polls the application every 5 seconds to verify it still has a heartbeat. If a heartbeat is not detected for a certain period, the application is set to Disconnected.

Within the page, an application can be deleted if you are either an AppAdmin for that program or you are a CoreAdmin. Hovering the cursor over the instance will



To access an application, go to the drop-down in the upper left corner of the user interface and choose the program.



Setting Up Users

This is the authorization piece of the equation. Once the user has been validated and attempts to access an application, the cloud user management service steps in and lets the application know what role the user has for that application.

- "How it works" on page 25
- "Creating a user account" on page 25
- "Managing CoreAdmin rights" on page 26
- "Resetting a password" on page 26
- "Creating a service account" on page 27
- "Managing service accounts" on page 27

How it works

In order to access Keysight applications, the user must have a cloud account, a license, and one or more roles assigned. Roles are defined by the application itself; the cloud service does not know what the role definition is or what it means. Within the cloud UI, a cloud administrator will create that user account and assign the role(s) on a per application basis. This Keysight specific information is stored in a token attached to that user's account.

When the user attempts to access a Keysight application, that application will query the cloud service for that user's information using the Cloud provided API (REST endpoints) to query and manage authorization. Any application needing this data will need to work through that API.

Creating a user account

Click **Accounts** in the navigation bar.

Note there are two account types listed in the left pane:

- Users represent resources that will manually interact with the application.
- Service Accounts enables automated users of the ecosystem to authenticate with the service.

To add a user account, type their email into the **<user email>** text box and click **Add User**.

If configured, an email containing a link to confirm the address and update their password is sent to the user. (This is optional. If the email is not sent, the user will click **Forgot Password** on the log in screen to receive the email with the link.)

Managing CoreAdmin rights

NOTE

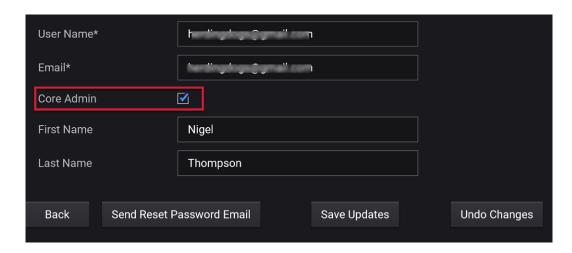
Only CoreAdmin users can manage these rights. To learn more about the CoreAdmin role, please visit "Manage Roles" on page 28.

By default, CoreAdmin rights are not enabled and can only be granted by editing the user. In the Accounts page, hover the mouse in the user's row. Two icons

appear on the right: edit () and delete ().

Click the edit icon.

The CoreAdmin option is a check box. Select it to enable the rights (or de-select to take them away). When changes are made, the **Save Updates** and **Undo Changes** options are enabled.



Resetting a password

There are two ways to reset a password.

Administrator

An administrator can trigger an account change for a user.

- 1 On the Accounts page, hover the mouse over the user's entry until the edit and delete icons appear on the right.
- 2 Select the edit icon.
- 3 Click Send Reset Password Email.

User

A user can also evoke the email by clicking **Forgot Password** on the login screen and entering their email address.

Creating a service account

Service accounts allow system resources, such as agents or automated processes, to be authenticated, since that type of user cannot manually log in. Service accounts also enable the assignment of metadata, such as license information, that applications can use when validating the account. For example, an instrument may run an agent to report data to a Keysight application; this agent would use a service account to authenticate itself within the ecosystem.

A service account is often a software tool that will perform a task and is designed by the end user and the service account simply enables that agent to interact with the application. However, instead of being assigned a role, a service account is granted a seat license to that application.

In the Accounts area, click the **Service Accounts** option under Account Types.



Each service account has a client ID and a client secret that is generated upon creation. Applications also have a client ID and secret, but the service account and its application do not need to match each other. They are only used to authenticate with the service and receive an access token.

Enter an account name and click **Add Account**. The entry is added to the list with its ID and secret.

Managing service accounts

Service accounts are granted licenses for application access. When edited, only the account name can be changed.



It is strongly recommended *not* to delete a service account as the service will no longer be able to log in to the application.

Manage Roles

Within the cloud, roles are defined as access to application features. There is one application role defined by the cloud authorization service, which is the AppAdmin role. This is used to control access to administration functionality. A typical user will not be an AppAdmin but will have other app specific roles assigned to them by the AppAdmin. Application specific roles are defined by the app developer and then registered/injected into the authorization system via API. There is also an API that enables the application to query the service for the user's information. How many roles are available for an application and what those roles represent are managed entirely by the application developer. The knows of the existence of the roles for each application (since they have been provided) but has no insight into their meanings.

In addition, there is the CoreAdmin role. The core admin user is a recognized KSF Cloud user and is authenticated by the authorization service. This user administers cloud functionality that are larger in scope than applications, such as licensing and configuring authentication providers. In order to set up the system for use, there must be at least one CoreAdmin, so one is set up with the startup wizard on first launch.

- "Role definitions" on page 28
- "Assigning Roles" on page 29

Role definitions

The following table summarizes the general functionality of each role. Description of application specific functionality is limited to what that user can see and a general note that permissions are determined by the application.

Description	CoreAd min	AppAd min (for this app)	Application defined roles
Add users via accounts page	Yes		
Assign users via roles page	Yes	Yes (only for their application(s))	
Delete users via users page	Yes		
Add/remove CoreAdmin authority for others	Yes		
Delete other CoreAdmin users	Yes (not themselves)		
Change authentication provider	Yes		

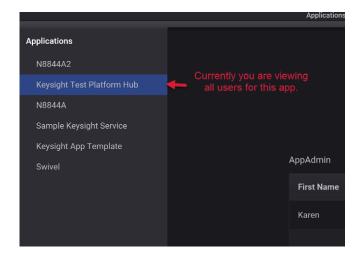
Description	CoreAdmin	AppAd min (for this app)	Application defined roles
Add roles (including AppAdmin) to users	For all apps and all users	Only in this app and its users	
Remove roles (including AppAdmin) from users	For all apps and all users	Only in this app and its users	
Visible tabs	ALL	Manage roles tab for their app only, App tab (their app only is listed)	
App Functionality	Only if app defined roles are assigned	Only if app defined roles are defined	Only if app defined roles are assigned
Download System Monitor Data	Yes		
Add/Delete Applications	Yes		
Update Email Server Configuration	Yes		
Test Email Server Configuration	Yes		

Assigning Roles

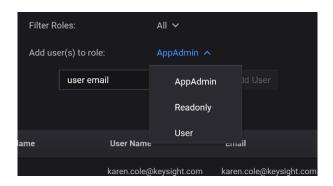
Because roles are created with applications, applications must be registered with the KCS before users can be assigned. Please see "Working with Applications" on page 24.

- 1 Click **Manage Roles** in the navigation bar.
- **2** Select the desired application. The selection turns a darker blue.

The default view lists all of the roles defined for the selected application with that role's users.



- To filter the list to show only a specific role, select the profile from the Filter Roles: drop-down.
- 4 To see what roles are available, click the drop-down list by Add User(s) to role:



5 Enter the user's email and click Add User.

NOTE

To assign a user to a role, that user account must already be created within KCS.

Note that a user can have more than one role within an application. For example, a user can be an AppAdmin and a User.

Monitoring the System

The **System Monitor** tab displays the system's logs, rendered in a user-friendly list.

Time	CPU Usage (%)	Memory Usage (%)	Level	Message
2018-01- 11T19:25:34.688Z	0.02	86.51	info	addIdentityToLicense: entry created with id 51
2018-01- 11T19:25:02.416Z	0.09	86.59	info	addIdentityToLicense: entry created with id 50

Each entry includes the timestamp, CPU and memory usage at the time of event, the log level, and the message.

Because there will be hundreds of lines, the list can be filtered by entering a string parameter in the **Filter** box.

The **Download** option exports the log as a text file.

```
🌅 keysight-cloud-services-log - Notepad
<u>File Edit Format View H</u>elp
{"cpuUsage":"0.86","memoryUsage":"36.41","level":"info","message":"Adding Keysight App Template to the OIDC providers client configuration","timestamp":"2017-12-19T23:58:06.592Z"} {"cpuUsage":"0.86","memoryUsage":"36.41","level":"info","message":"Adding OIDC client:
template","timestamp":"2017-12-19T23:58:06.593Z"}
 ["cpuUsage":"0.86","memoryUsage":"36.41","level":"info","message":"Adding Keysight Test Platform Hub to the
OIDC providers client configuration", "timestamp": "2017-12-19T23:58:06.594Z"} {"cpuUsage": "0.86", "memoryUsage": "36.41", "level": "info", "message": "Adding OIDC client:
ZXkV5hFb", "timestamp": "2017-12-19T23:58:06.594Z"}
 \label{lem:condition} \ensuremath{\texttt{"cpuUsage":"0.86","memoryUsage":"36.41","level":"info","message":"Adding N8844A to the OIDC providers client the output of the outp
configuration", "timestamp": "2017-12-19T23:58:06.594Z")
{"cpuUsage":"0.86", "memoryUsage":"36.41", "level": "info", "message": "Adding OIDC client:
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```

2 Using Keysight Cloud Services (KCS)

Both the downloaded log and the system monitor GUI only include the most recent events. To access earlier logs, a SysAdmin user will have to go to the log's location and view them.

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