Milestone : Setting Up Application Environment

Activity :Create IBM Cloud Account

IBM Cloud account

To learn how to set up account authentication, manage your account settings, effectively organize resources in your account, and control access to resources.

## Step 1: Create your account

First, create an account by using your existing IBMid or a new IBMid. If your company is registered to use a federated ID for single sign-on (SSO), you can use your federated ID instead.

| Login ID | Details |
| --- | --- |
| Existing IBMid | If you already have an IBMid, sign up for IBM Cloud with your existing credentials that you use for other IBM® products and services. |
| New IBMid | If you don't yet have an IBMid, you can create one when you sign up. With an IBMid, you can use one username to log in to all IBM products and services, including IBM Cloud. Using your IBMid If you're not a part of a company that uses a federated ID, use your IBMid to create your account.   1. Go to the [IBM Cloud login page](https://cloud.ibm.com/), and click **Create an IBM Cloud account**. 2. Enter your IBMid email address. If you don't have an existing IBMid, an ID is created based on the email that you enter. 3. Complete the remaining fields with your information. |
| Federated ID | If your company already requested to register the user credentials from your company's domain with IBM, you can sign up for IBM Cloud by using the credentials that you already use for your company's login. You must enter a phone number when you sign u. |

### Using your IBMid

If you're not a part of a company that uses a federated ID, use your IBMid to create your account.

1. Go to the [IBM Cloud login page](https://cloud.ibm.com/), and click **Create an IBM Cloud account**.
2. Enter your IBMid email address. If you don't have an existing IBMid, an ID is created based on the email that you enter.
3. Complete the remaining fields with your information.
4. Click **Create account**.
5. Confirm your account by clicking the link in the confirmation email that's sent to your provided email address.

Personal use availability

Personal use of our platform that is not related to business, trade, craft, or professional purposes are not supported for the following countries or regions:

To work with a local Business Partner, go to the [IBM Business Partner Directory](https://www.ibm.com/partnerworld/bpdirectory/). Customers are not required to have a VAT ID to work with a local Business Partner.

# ID Using a federated

A federated ID is an ID within a company's domain that is registered with IBM so that the domain and user credentials can be used to access IBM web applications. You can sign up for IBM Cloud with a federated ID only if your company is already registered with IBM. Registering a company's domain with IBM enables users to log in to IBM products and services by using their existing company user credentials. Authentication is then handled by your company's identity provider (IdP) through single sign-on (SSO).

IBM uses the Security Assertion Markup Language 2.0 (SAML 2.0) for this identity federation. SAML 2.0 is a standard version for exchanging authentication data between security domains. It’s an XML-based protocol that uses a security token that contains assertions to pass information between the organization's IdP, and the IBM Rely Party (RP), otherwise known as the Service Provider.

For information about how to register your company for a federated ID, see the [IBMid Enterprise Federation Adoption Guide](https://ibm.ent.box.com/notes/78040808400?v=IBMid-Federation-Guide" \t "_blank). An IBM sponsor, such as an product advocate or client advocate, is required when you request to register federated IDs.

Step2: Set up account MFA setting

By default, users in your account verify themselves by logging in with a username and password. To require users to use more secure authentication factors, complete the following steps to set up multifactor authentication (MFA).

1. Go to **Manage** > **Access (IAM)** > **Settings** in the IBM Cloud console.
2. Update the current authentication setting by clicking **Edit** in the Authentication section.
3. Select the type of MFA to enable in your account.
   * **MFA for users with an IBMid**: Require users to authenticate by using an IBMid, password, and time-based one-time passcode (TOTP). You can enable this option for all users or non-federated users.
   * **MFA for all users (IBMid & supported IdPs)**: Require users to authenticate by using one of the following MFA factors. This option applies to users who are using either an IBMid or an external IdP.
     + **Email-based MFA**: Users authenticate by using a security passcode that's sent by email.
     + **TOTP MFA**: Users authenticate by using a time-based one-time passcode (TOTP) with an authenticator app, such as IBM Security Verify or Google Authenticator.
     + **U2F MFA**: Users authenticate by using a hardware security key that generates a six-digit numerical code. This factor offers the highest level of security.
4. Click **Update**.

step3:Estimate your costs

1. Go to the [catalog](https://cloud.ibm.com/catalog), and select **Services**.
2. Select a service that you're interested in.
3. Select a pricing plan, enter other configuration details if needed, and click **Add to estimate**.

By default, the estimator shows the pricing and billing currency for your location. Pricing can vary by region. If you're estimating costs for a different location, select the correct region to view accurate pricing.

1. Add the calculated cost to your estimate by clicking **Save**.
2. When you're done adding products to your estimate, click **Review estimate** to a detailed view of your estimate.

Step4:Manage your invoices and payment methods

Before you start working with resources in your account, familiarize yourself with where you can manage your payment method and access your invoices.

# Managing your payment method

* To manage your payment method for an account that's billed in USD currency, go to **Manage** > **Billing and usage** in the IBM Cloud console, and select **Payments**.
* To manage your payment method for an account that's billed in non-USD currency, go to [IBM Billing](https://myibm.ibm.com/billing/).

# Accessing your invoices

* To access an invoice for an account that's billed in USD currency, go to **Manage** > **Billing and usage** in the IBM Cloud console, and select **Invoices**.
* To access an invoice for an account that's billed in non-USD currency, go to **Manage** > **Billing and usage** in the IBM Cloud console, and select **Invoices**. Then, click **IBM Invoi**

Step5:Set preferences for receiving notifications

Complete the following steps to set your preferences for receiving various types of notifications:

1. To receive notifications about IBM Cloud platform-related, or resource-related items, go to the **Avatar** icon  **Profile** > **Notification preferences**.
   * When you set IBM Cloud platform notifications, you receive email notifications that are associated with only the platform. You do not receive notifications about events that are associated with IBM Cloud services. By default, all platform notifications are turned off.
   * If you update your preferences on resource activity, such as incidents, maintenance, security bulletins, or infrastructure service updates, the notifications are for only the services you use or the devices that you have created. By default, all infrastructure notifications are turned off.
2. To receive spending notifications, go to **Manage** > **Billing and usage** > **Spending notifications** in the IBM Cloud console. Or, you can access it directly from the [Notification preferences](https://cloud.ibm.com/user/notifications) page by clicking **Manage** in the **Billing and Usage** section.

Step6:create your resource groups

Resource groups provide a way for you to easily manage access to multiple resources and to view billing usage for a set of resources. With your Pay-As-You-Go account, you can create more resource groups in addition to the default resource group that's created for you.

1. Go to **Manage** > **Account** > **Account resources** > **Resource groups** in the IBM Cloud console.
2. Click **Create**.
3. Enter a name for your resource group, and click **Add**.

Step7:Set up access

1. Create an access group.

* Go to **Manage** > **Access (IAM)** > **Access Groups** in the IBM Cloud console.
* Click **Create**.
* Enter a name for your group, and click **Create**. For example, if you know multiple users in your account need to be able to apply subscription codes, track usage, or perform other billed-related tasks, you might name your group Billing-Editor-Access

1. Assign access to the group

* Click **Access** > **Assign access**.
* Select individual services or a group of services:
* Click **Next**.
* Select all roles that apply, then click **Next**.
* Click **Add** and repeat as needed.
* Click **Assign**.

Step8: Invite users to your account

1. Go to **Manage** > **Access (IAM)** > **Users** in the IBM Cloud console.
2. Click **Invite users**.
3. Specify the email address of the user. If you are inviting more than one user, they are all assigned the same access.
4. Add the user to one or more of the access groups that you created in the previous step.
5. lick **Invite**.

To learn more about the invitation flow and how users can accept invitations, see [Inviting users to an account](https://cloud.ibm.com/docs/account?topic=account-iamuserinv).

You can also give users access to your account by using trusted profiles. For more information, see [What makes a good trusted profiles strategy?](https://cloud.ibm.com/docs/account?topic=account-account_setup#trustedprofiles_strategy).

Step9:Explore your support options

You can use the Support Center to get help with any issues that you might encounter. To access the Support Center, click **Support** in the console menu bar.

* The Help just for you section features links to common tasks, troubleshooting, and FAQs specific to the resources in your account.
* The Featured FAQs section provides FAQs related to platform tasks, for example, resetting your password, IAM, and upgrading your account.
* The Contact support section provides the options for getting in touch with a support representative: start a live chat, contact by phone, or create a support case.

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