**Introduction**

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* 1 minute

Access to Azure resources and services is obtained through Azure subscriptions. Payment for services is done through Microsoft Cost Management and Billing. Azure Administrators must understand how to choose the Azure subscriptions that support the company's business needs. Financial controllers for the company need to know how to manage the costs of the subscription services for the organization.

In this module, your company is moving to the Azure cloud platform. As a first step, you need to identify which Azure subscriptions are needed to support the work scenarios in the organization. You're responsible for obtaining the Azure subscriptions, and for providing input about how to effectively manage the service costs.

**Learning objectives**

In this module, you learn how to:

* Determine the correct region to locate Azure services.
* Review features and use cases for Azure subscriptions.
* Obtain an Azure subscription.
* Understand billing and features for different Azure subscriptions.
* Use Microsoft Cost Management and Billing for cost analysis.
* Discover when to use Azure resource tagging.
* Identify ways to reduce costs.

**Skills measured**

The content in the module helps you prepare for [Exam AZ-104: Microsoft Azure Administrator](https://learn.microsoft.com/en-us/certifications/exams/az-104). The module concepts are covered in:

Manage identities and governance in Azure (15-20%)

* Manage subscriptions and governance
  + Apply resource tags
  + Manage subscriptions
  + Configure costs with Microsoft Cost Management

**Prerequisites**

None.

**Next unit: Identify Azure regions**

# Identify Azure regions

Completed100 XP

* 4 minutes

Microsoft Azure is made up of datacenters located around the globe. These datacenters are organized and made available to end users by region. A [region](https://azure.microsoft.com/global-infrastructure/regions/) is a geographical area on the planet containing at least one, but potentially multiple datacenters. The datacenters are in close proximity and networked together with a low-latency network. A few examples of regions are West US, Canada Central, West Europe, Australia East, and Japan West.

### Things to know about regions

Here are some points to consider about regions:

* Azure is generally available in more than 60 regions in 140 countries.
* Azure has more global regions than any other cloud provider.
* Regions provide you with the flexibility and scale needed to bring applications closer to your users.
* Regions preserve data residency and offer comprehensive compliance and resiliency options for customers.

### Things to know about regional pairs

Most Azure regions are paired with another region within the same geography to make a regional pair (or paired regions). Regional pairs help to support always-on availability of Azure resources used by your infrastructure. The following table describes some prominent characteristics of paired regions:

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### Things to consider when using regions and regional pairs

You've reviewed the important considerations about regions and regional pairs. Now think about how you might implement regions in your organization.

* **Consider resource and region deployment**. Plan the regions where you want to deploy your resources. For most Azure services, when you deploy a resource in Azure, you choose the region where you want your resource to be deployed.
* **Consider service support by region**. Research region and service availability. Some services or Azure Virtual Machines features are available only in certain regions, such as specific Virtual Machines sizes or storage types.
* **Consider services that don't require regions**. Identify services that don't need region support. Some global Azure services that don't require you to select a region. These services include Azure Active Directory, Microsoft Azure Traffic Manager, and Azure DNS.
* **Consider exceptions to region pairing**. Check the Azure website for current region availability and exceptions. If you plan to support the Brazil South region, note this region is paired with a region outside its geography. The Singapore region also has an exception to standard regional pairing.
* **Consider benefits of data residency**. Take advantage of the benefits of data residency offered by regional pairs. This feature can help you meet requirements for tax and law enforcement jurisdiction purposes.

## Find regions for your business geography

Visit the Azure global infrastructure website to find supported regions for your business geography. You can search by country name or by Microsoft product. A list of supported region pairs and exceptions is also available.

| **By geography** | **By product** | **Paired regions** |
| --- | --- | --- |
| Search [Azure regions](https://azure.microsoft.com/global-infrastructure/geographies/#geographies) by geography. | Search [Azure products](https://azure.microsoft.com/global-infrastructure/services/) by region or geography. | Search for [paired regions](https://learn.microsoft.com/en-us/azure/best-practices-availability-paired-regions#azure-cross-region-replication-pairings-for-all-geographies) and exceptions. |
|  |  |  |

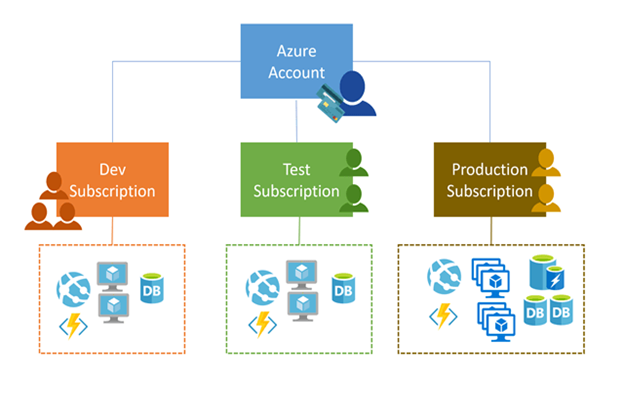
## Next unit: Implement Azure subscriptions

# Implement Azure subscriptions

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* 3 minutes

An Azure subscription is a logical unit of Azure services that's linked to an Azure account. An Azure account is an identity in Azure Active Directory (Azure AD) or a directory that's trusted by Azure AD, such as a work or school account. Subscriptions help you organize access to Azure cloud service resources, and help you control how resource usage is reported, billed, and paid.



### Things to know about subscriptions

As you think about the subscriptions to implement for your company, consider the following points:

* Every Azure cloud service belongs to a subscription.
* Each subscription can have a different billing and payment configuration.
* Multiple subscriptions can be linked to the same Azure account.
* More than one Azure account can be linked to the same subscription.
* Billing for Azure services is done on a per-subscription basis.
* If your Azure account is the only account associated with a subscription, you're responsible for the billing requirements.
* Programmatic operations for a cloud service might require a subscription ID.

### Things to consider when using subscriptions

Consider how many subscriptions your organization needs to support the business scenarios. As you plan, think about how you can organize your resources into resource groups.

* **Consider the types of Azure accounts required**. Determine the types of Azure accounts your users will link with Azure subscriptions. You can use an Azure AD account or a directory that's trusted by Azure AD like a work or school account. If you don't belong to one of these organizations, you can sign up for an Azure account by using your Microsoft Account, which is also trusted by Azure AD.
* **Consider multiple subscriptions**. Set up different subscriptions and payment options according to your company's departments, projects, regional offices, and so on. A user can have more than one subscription linked to their Azure account, where each subscription pertains to resources, access privileges, limits, and billing for a specific project.
* **Consider a dedicated shared services subscription**. Plan for how users can share resources allocated in a single subscription. Use a shared services subscription to ensure all common network resources are billed together and isolated from other workloads. Examples of shared services subscriptions include Azure ExpressRoute and Virtual WAN.
* **Consider access to resources**. Every Azure subscription can be associated with an Azure AD. Users and services authenticate with Azure AD before they access resources.

## Next unit: Obtain an Azure subscription

# Obtain an Azure subscription

Completed100 XP

* 1 minute

To use Azure, you must have an Azure subscription. There are several ways to procure an Azure subscription. You can obtain an Azure subscription as part of an Enterprise agreement, or through a Microsoft reseller or Microsoft partner. Users can also open a personal free account for a trial subscription.

### Things to know about obtaining an Azure subscription

Review the following ways to obtain an Azure subscription and consider which options would work for your organization.

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## Next unit: Identify Azure subscription usage

# Identify Azure subscription usage

Completed100 XP

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We reviewed the ways you can obtain an Azure subscription. Now let's look at the types of Azure subscriptions that are available.

Azure offers free and paid subscription options to meet different needs and requirements. The most common subscriptions are **Free**, **Pay-As-You-Go**, **Enterprise Agreement**, and **Student**. For your organization, you can choose a combination of procurement options and subscription choices to meet your business scenarios.

### Things to consider when choosing Azure subscriptions

As you think about which types of Azure subscriptions would work for your organization, consider these scenarios:

* **Consider trying Azure for free**. An Azure free subscription includes a monetary credit to spend on any service for the first 30 days. You get free access to the most popular Azure products for 12 months, and access to more than 25 products that are always free. An Azure free subscription is an excellent way for new users to get started.
  + To set up a free subscription, you need a phone number, a credit card, and a Microsoft account.
  + The credit card information is used for identity verification only. You aren't charged for any services until you upgrade to a paid subscription.
* **Consider paying monthly for used services**. A Pay-As-You-Go (PAYG) subscription charges you monthly for the services you used in that billing period. This subscription type is appropriate for a wide range of users, from individuals to small businesses, and many large organizations as well.
* **Consider using an Azure Enterprise Agreement**. An Enterprise Agreement provides flexibility to buy cloud services and software licenses under one agreement. The agreement comes with discounts for new licenses and Software Assurance. This type of subscription targets enterprise-scale organizations.
* **Consider supporting Azure for students**. An Azure for Students subscription includes a monetary credit that can be used within the first 12 months.
  + Students can select free services without providing a credit card during the sign-up process.
  + You must verify your student status through your organizational email address.

**Note**

For a complete list of Azure subscription options, see the current [**Microsoft Azure offers**](https://azure.microsoft.com/support/legal/offer-details/).

## Next unit: Implement Microsoft Cost Management