



Academy Cloud Foundations (ACF)
Module 05 Student Guide
Version 1.0.10

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Welcome to Module 5 – Cloud Billing and Support Services.

What's In This Module



- 📁 Part 1: Introduction to AWS Organizations
- 📁 Part 2: AWS Cost Explorer
- 📁 Part 3: Overview of AWS Technical Support Plans and Costs

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The billing and support services module was designed to provide an overview of AWS billing and support services. We will review AWS Organizations, which is how you manage multiple AWS accounts and consolidated billing. We will also look at some tools that enable you to view and estimate costs.

Finally, we will close with a look at how to find AWS white papers and documentation on all AWS services, features, and resources.

Module Overview



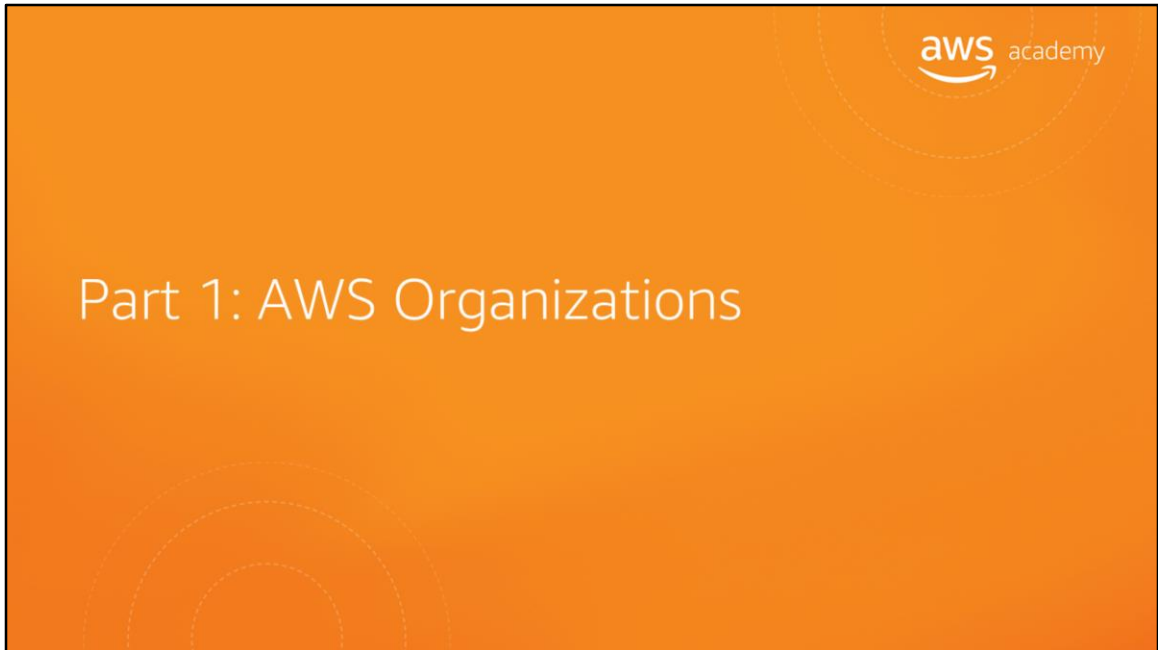
Review and understand AWS Organizations, billing, and technical support options to enable you to:

- 📦 Understand how set up an organizational structure that simplifies billing and account visibility to review cost data.
- 📦 Identify alternative Support options and features.

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How you are charged for using AWS can be very complicated. To help, AWS provides a billing tool to help users understand how much they are spending in AWS.

Technical support of any solution is critical. In this module you will gain the insight needed to select the support solution that best meets your needs and budget.



Introducing Part 1: AWS Organizations. In this part, we'll look at AWS Organizations and consolidated billing, along with its features and benefits.

Introduction to AWS Organizations



**AWS
Organizations**

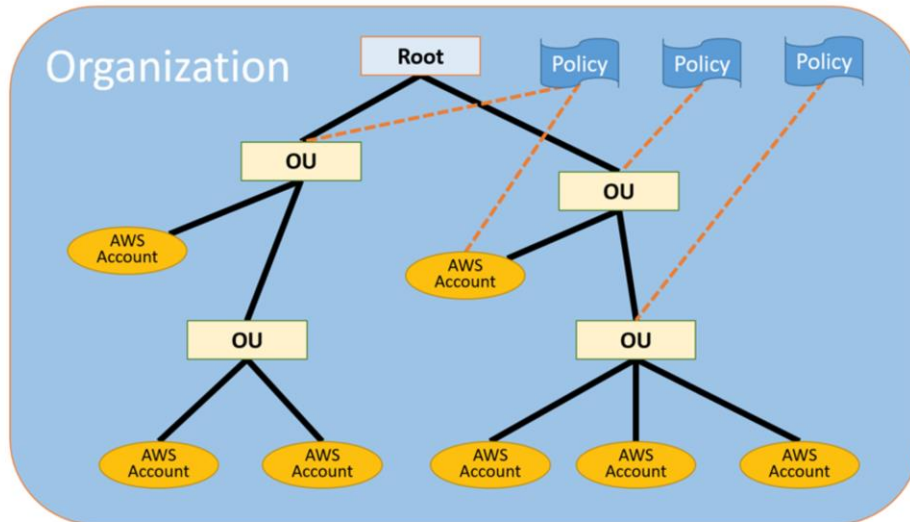
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AWS Organizations is an account management service that enables you to consolidate multiple AWS accounts into an **organization** that you create and centrally manage. AWS Organizations include consolidated billing and account management capabilities that help you to better meet the budgetary, security, and compliance needs of your business.

The main benefit of AWS Organizations are:

- Centrally managed access policies across multiple AWS accounts.
- Controlled access to AWS services.
- Automated AWS account creation and management.
- Consolidated billing across multiple AWS accounts.

AWS Organizations Terminology



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*Organizational Units (OUs)

Let's start with some terminology to understand the structure of AWS Organizations.

The diagram displayed shows a basic organization, or root, that consists of seven accounts organized into four organizational units (or OUs). An OU is a container for accounts within a root. An OU can also contain other OUs enabling you to create a hierarchy that looks like an upside down tree with a root at the top and branches of OUs that reach down ending in accounts that are the leaves of the tree.

When you attach a policy to one of the nodes in the hierarchy, it flows down and affects all of the branches and leaves. This organization has several policies that are attached to some of the OUs or directly to accounts.

An OU can have only one parent and, currently, each account can be a member of exactly one OU. An account is a standard AWS account that contains your AWS resources. You can attach a policy to an account to apply controls to only that one account.

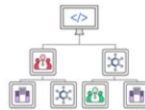
Key Features and Benefits



**AWS
Organizations**



Policy-Based Account Management



Group Based Account Management



Application Program Interface (APIs) that automate account management



Consolidated Billing

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AWS Organizations enables you to:

- Create **Service Control Policies (SCPs)** that centrally control AWS services across multiple AWS accounts.
- You can create **groups of accounts** and then attach policies to a group to ensure that the correct policies are applied across the accounts.
- You can simplify account management by using **Application Program Interface (APIs)** to automate the creation and management of new AWS accounts.
- Simplify the billing process by setting up a single payment method for all the AWS accounts in your organization. With **consolidated billing**, you can see a combined view of charges incurred by all your accounts as well as take advantage of pricing benefits from aggregated usage. Consolidated billing provides a central location to manage billing across all of your AWS accounts, and the ability to benefit from volume discounts.

Security with AWS Organizations



Control access with **AWS Identity and Access Management (IAM)**.

IAM policies enable you to allow or deny access to AWS services for users, groups, and roles.



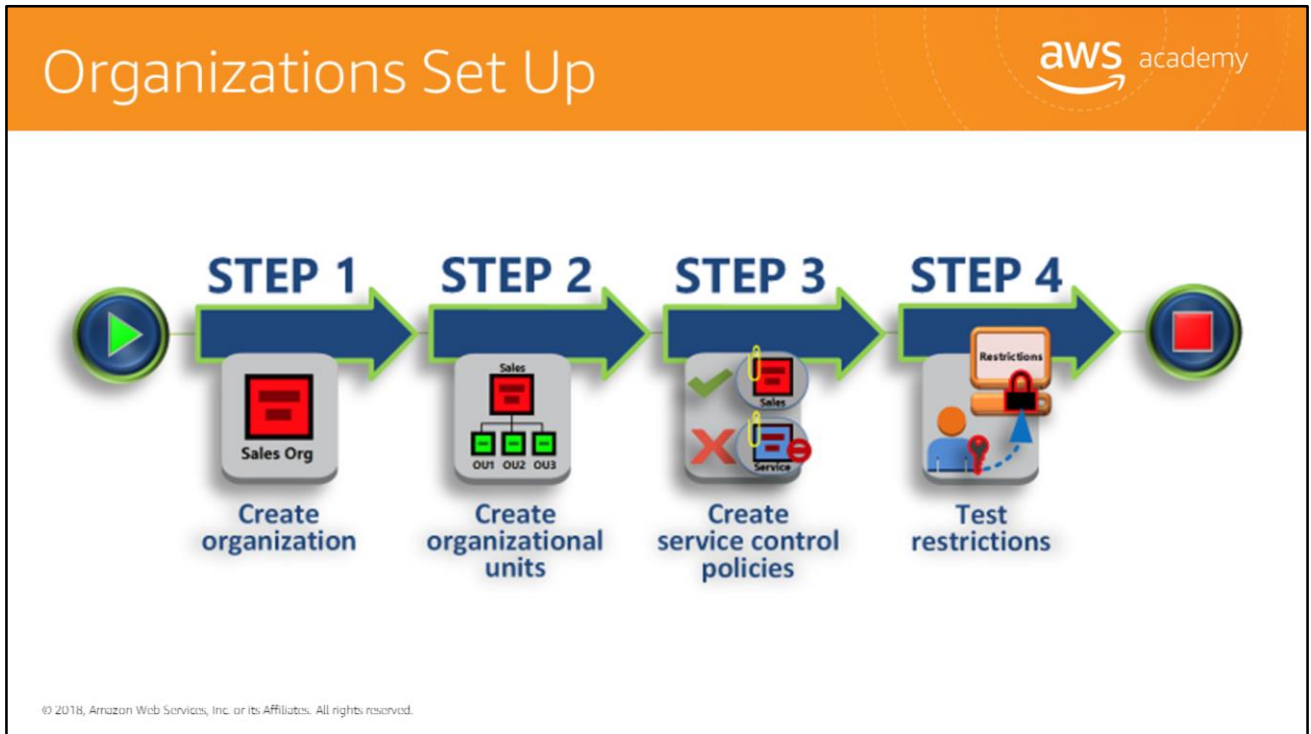
Service Control Policies (SCPs) enable you to allow or deny access to AWS services for individuals or group accounts in an Organizational Unit (OU).

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AWS Organizations does not replace associating **AWS Identity and Access Management (IAM)** policies with users, groups, and roles within an AWS account.

IAM policies let you allow or deny access to AWS services, such as Amazon S3, as well as individual AWS resources, such as a specific S3 bucket, or individual API actions, such as `s3:CreateBucket`. An IAM policy can be applied only to IAM users, groups, or roles, and it can never restrict the root identity of the AWS account.

In contrast, with Organizations you use **Service Control Policies (SCPs)** to allow or deny access to particular AWS services for individual AWS accounts or for groups of accounts within an Organizational Unit (OU). The specified actions from an attached SCP affect all IAM users, groups, and roles for an account, including the root account identity.



Keep in mind that this process assumes you have access to two existing AWS accounts, and that you can sign in to each as an administrator.

To set up AWS Organizations, let's review each step:

- Step 1 is to create your organization with your current AWS account as the master account. You also invite one AWS account to join your organization and create another account as a member account.
- Step 2 is to create two Organizational Units in your new organization and place the member accounts in those OUs.
- Step 3 is to create Service Control Policies, which allow you to apply restrictions to what actions can be delegated to users and roles in the member accounts by using these service control policies. A service control policy is a type of organization control policy.
- Step 4 is to test your organization's policies. Sign in as a user for each of the roles (such as OU1, OU2, etc.) and see how the service control policies impact account access. Alternatively, you can use the IAM policy simulator to test and troubleshoot IAM and resource-based policies attached to IAM users, groups, or roles in your AWS account.

For more information on the IAM policy simulator, select the link.

https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_testing-policies.html.

Limits of AWS Organizations



Limits		
Limits on Names	Names must be composed of Unicode characters.	
	Names must not exceed 250 characters in length.	
Maximum and Minimum Values	Number of AWS Accounts	Varies. Note: An invitation sent to an account counts against this limit.
	Number of roots	1
	Number of	1,000
	Number of policies	1,000
	Maximum size of a service control policy document	5,120 bytes
	OU maximum nesting in a root	5 levels of OUs under a root
	Invitations sent per day	20
	Number of member accounts you can create concurrently	Only five can be in progress at one time
	Number of entities to which you can attach a policy	Unlimited

There are restrictions on names that you can create in AWS Organizations, which includes names of accounts, OUs, roots, and policies.

Names must be composed of Unicode characters and not exceed 250 characters in length.

There are a number of maximum and minimum values for entities in the AWS Organizations.

Accessing AWS Organizations



**AWS
Organizations**



Management Console



Command Line Tools



Software Development Kits
(SDKs)



HTTPS Query Application
Programming Interfaces
(API)

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AWS Organizations can be managed through multiple different interfaces:

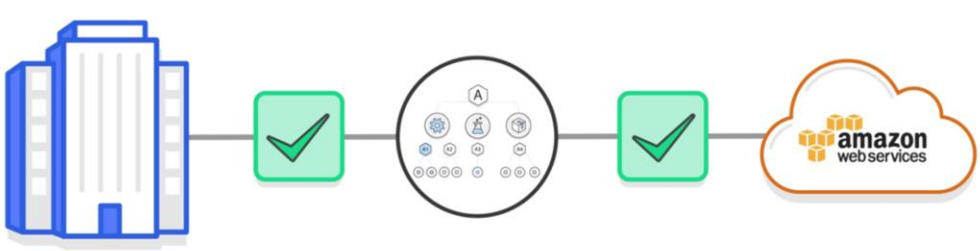
The **Management Console** is a browser-based interface that you can use to manage your organization and your AWS resources. You can perform any task in your organization by using the console.

AWS Command Line Tools allow you to issue commands at your system's command line to perform AWS Organizations and AWS tasks. This can be faster and more convenient than using the console.

You can use also **AWS Software Development Kits (SDKs)** to take care of tasks such as cryptographically signing requests, managing errors, and retrying requests automatically. AWS SDKs consist of libraries and sample code for various programming languages and platforms, such as Java, Python, Ruby, .NET, iOS, and Android.

The **AWS Organizations HTTPS Query API** gives you programmatic access to AWS Organizations and AWS. It lets you issue HTTPS requests directly to the service. Note that when you use the HTTPS API, you must include code to digitally sign requests using your credentials.

AWS Organizations is Free!



The diagram illustrates the process of setting up AWS Organizations. It starts with a blue building icon, followed by a green square with a white checkmark, then a circular icon containing an 'A' and various AWS service icons, then another green square with a white checkmark, and finally the Amazon Web Services logo.

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AWS Organizations are available to all AWS customers at no additional charge!

In Review



- ❏ AWS Organizations helps you programmatically create AWS accounts and consolidate them into a centrally managed organization.
- ❏ AWS Organizations provides consolidated billing and account management capabilities that help you reach your business goals around:
 - ❏ Budget
 - ❏ Security
 - ❏ Compliance



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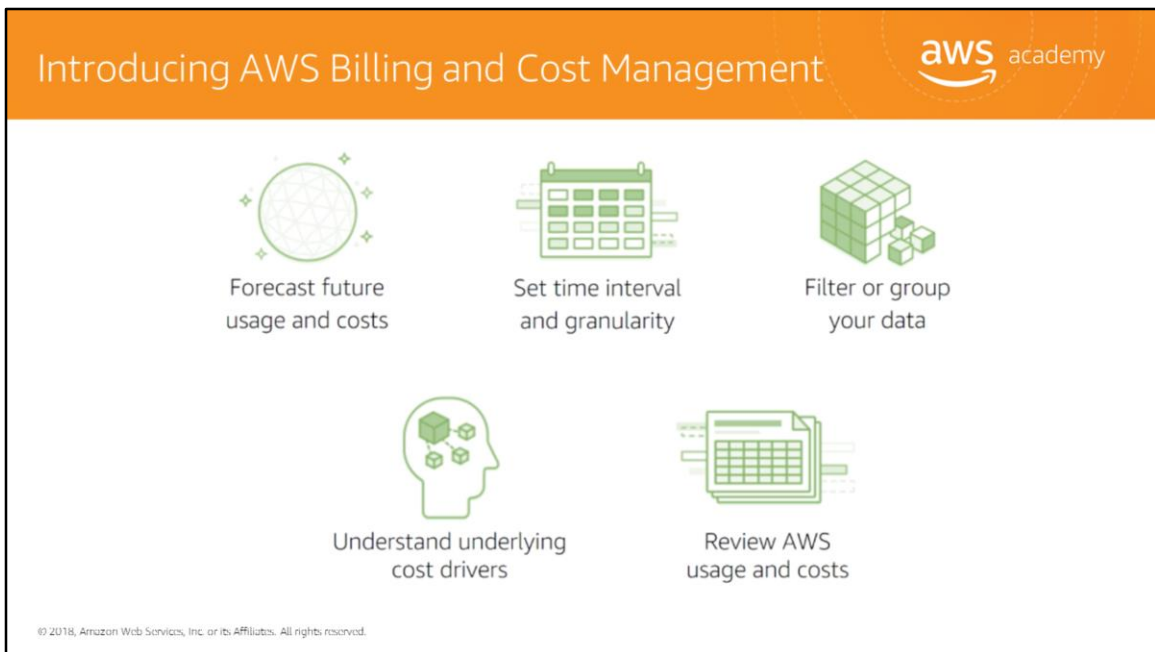
In summary, organizations help you programmatically create AWS accounts and consolidate them into a centrally managed organization.

AWS Organizations provides consolidated billing and account management capabilities that help you reach your business goals around:

- Budget
- Security
- And compliance



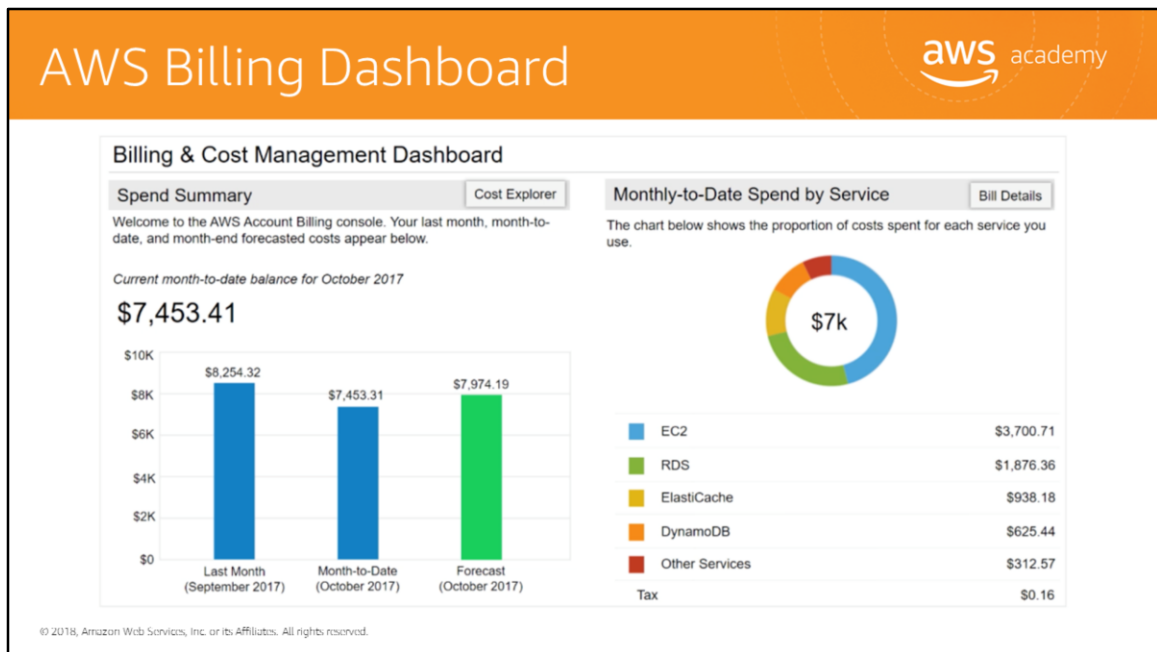
Introducing Part 2: AWS Billing and Cost Management.



AWS Billing and Cost Management is the service you use to pay your AWS bill, monitor your usage, and budget your costs. Billing and cost management enables you to forecast and obtain a better idea of what your costs and usage may look like in the future so that you can plan ahead.

You can set a custom time period and determine whether you would like to view your data at a monthly or daily level of granularity.

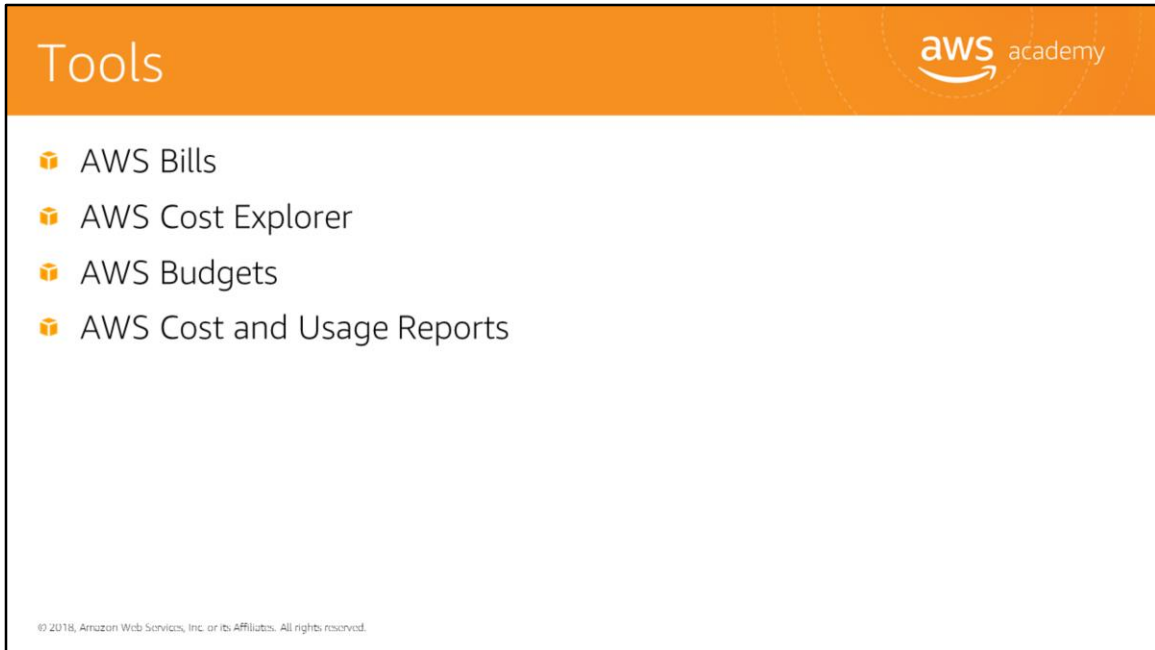
With the filtering and grouping functionality, you can further analyze your data using a variety of available dimensions. The **AWS Cost and Usage Report Tool** gives you the ability to understand your cost and usage data trends and how you are using your AWS implementation to identify opportunities for optimization.



The **AWS Billing Dashboard** lets you view the status of your month to date AWS expenditure, pinpoint the services that account for the majority of your overall expenditure, and understand at a high level how costs are trending.

One of the graphs located on the dashboard is the **Spend Summary**, which shows you how much you spent last month, the estimated costs of your AWS usage for the month to date, and a forecast for how much you are likely to spend this month.

Another graph is the **Month-to-Date Spend by Service** graph that shows the top services that you use most and the proportion of costs attributed to that service.

A presentation slide with an orange header bar. The word "Tools" is written in white on the left side of the header. The AWS Academy logo is on the right side of the header. Below the header, there is a list of four tools, each preceded by a small orange icon of a box with a plus sign. The tools listed are AWS Bills, AWS Cost Explorer, AWS Budgets, and AWS Cost and Usage Reports. At the bottom left of the slide, there is a small copyright notice.


Tools

- 📦 AWS Bills
- 📦 AWS Cost Explorer
- 📦 AWS Budgets
- 📦 AWS Cost and Usage Reports

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From the billing dashboard, you can access a number of other cost management tools you can use to estimate and plan your AWS costs including AWS Bills, AWS Cost Explorer, AWS Budgets and AWS Cost and Usage Reports.

Monthly Bills



BILLS

|

COST EXPLORER

|

BUDGETS

|

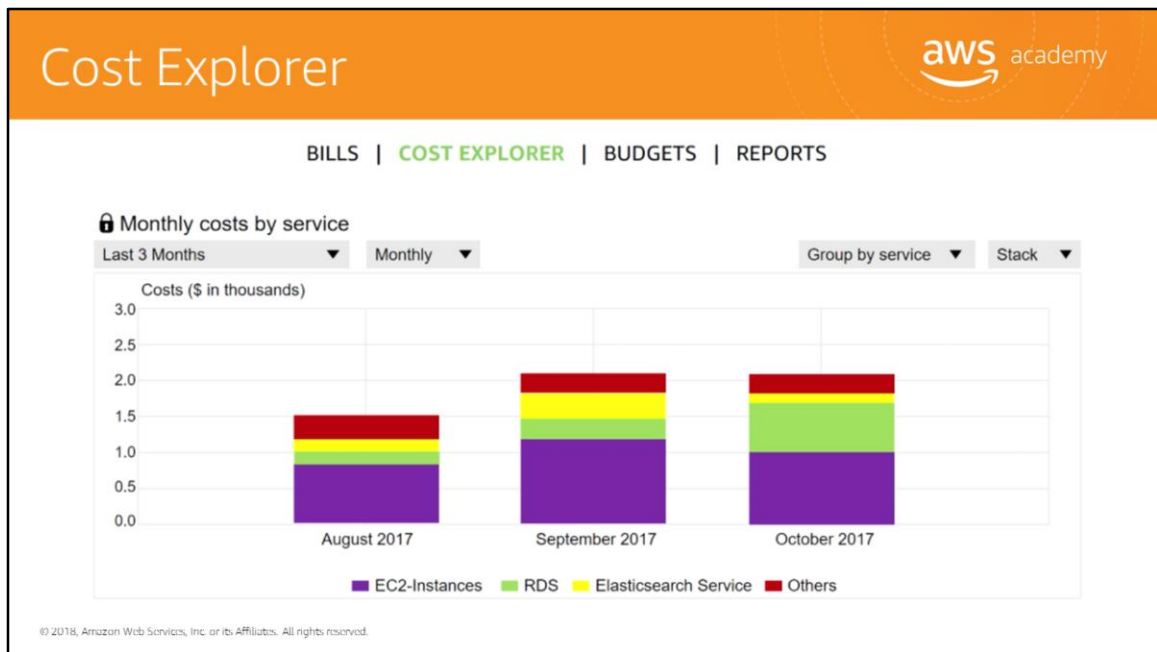
REPORTS

Total		\$7,453.41 USD
AWS Marketplace Charges		\$15.00
▼ Usage Charges and Recurring Fees		\$15.00
Invoice 32342548 – AWS Service Charges: Usage charge for this statement period	2017-10-10	\$15.00
AWS Service Charges		\$7,438.41
▼ Usage Charges and Recurring Fees		\$7,414.41
Invoice 32342513 – AWS Service Charges: Usage charge for this statement period	2017-10-10	\$7,414.41
▼ Usage Charges and Recurring Fees		\$24.00
Invoice 32342507 – AWS Service Charges: Subscription charge	2017-10-10	\$24.00

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The **AWS Bills page** lists the costs that you incurred over the past month for each AWS service with a further breakdown by AWS region and linked account.

This tool gives you access to the most up to date information on your costs and usage including your monthly bill and the detailed breakdown of the AWS services you are using.



The **AWS Billing and Cost Management** console includes the **Cost Explorer** page for viewing your AWS cost data as a graph.

With Cost Explorer you can visualize, understand, and manage your AWS costs and usage over time.

The Cost Explorer includes a default report that helps you visualize the costs and usage with your top cost incurring AWS services. The monthly running costs report gives you an overview of all of your costs for the past three months and provides forecasted numbers for the coming month with a corresponding confidence interval.

The Cost Explorer is a free tool that allows you to:

- View charts of your costs.
- View cost data for the past 13 months.
- Forecast how much you are likely to spend over the next three months.
- Discover patterns in how much you spend on AWS resources over time and identify cost problem areas.
- Identify services that you use the most and/or metrics like which Availability Zones have the most traffic or which linked AWS account is used the most.

Forecast and Track Costs

aws academy

BILLS | COST EXPLORER | **BUDGETS** | REPORTS

Create budget Copy Edit Delete Download CSV ⚙

Filter by budget name

	Budget name	Current	Forecasted	Budgeted	Current vs. budgeted	Forecasted vs. budgeted
<input type="checkbox"/>	▶ Total Monthly Cost	\$760.27	\$787.44	\$1,000.00		
<input type="checkbox"/>	▼ S3 Usage Bucket	2978.00 Req	3650.16 Req	3000.00 Req		

Budget details

Start date 10/01/17

End date -

Budget Period Monthly

Variance analysis

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AWS Budgets uses the cost visualization provided by Cost Explorer to show you the status of your budgets and to provide forecasts of your estimated costs.

You can also use budgets to create notifications if you go over your budget for the month or when your estimated costs exceed your budget. Budgets can be tracked at the monthly, quarterly, or yearly level and you can customize the start and end dates. Budget alerts can be sent via email and/or via **Amazon Simple Notification Service (Amazon SNS)**.

Cost and Usage Reporting



BILLS | COST EXPLORER | BUDGETS | **REPORTS**

Product Code	Usage Type	Operation	Availability Zone	Usage Amount	Currency Code	Line Item Description
Amazon S3	Requests – Tier 1	ListAllMyBuckets		2	USD	\$0.00 per request – PUT, COPY, POST, LIST under the global free tier
Amazon EC2	USW2-Boxusage:t2.micro	Runinstnaces:0002	us-west-2a	1	USD	\$0.00 per Windows t2.micro instance-hour under monthly free tier
Amazon S3	Requests – Tier 1	ListAllMyBuckets		2	USD	\$0.00 per request – PUT, COPY, POST, LIST under the global free tier
Amazon EC2	USW2-Boxusage:t2.micro	Runinstnaces:0002	us-west-2a	1	USD	\$0.00 per Windows t2.micro instance-hour under monthly free tier
Amazon S3	Requests – Tier 1	ListAllMyBuckets		2	USD	\$0.00 per request – PUT, COPY, POST, LIST under the global free tier
Amazon S3	Requests – Tier 1	ListAllMyBuckets		2	USD	\$0.00 per request – PUT, COPY, POST, LIST under the global free tier

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The **AWS Cost and Usage Report** is a single location for accessing comprehensive information about your AWS costs and usage. This tool lists usage for each service category used by an account and its users in hourly or daily line items as well as any tax that you have activated for tax allocation purposes.

You can choose to have AWS to publish billing reports to a Amazon S3 bucket. These reports can be updated once a day.

In Review



- Tools to help you access, understand, allocate, control and optimize your AWS costs and usage:



AWS Bills



AWS Cost Explorer



AWS Budgets



AWS Cost and Usage Reports



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AWS Billing and Cost Management provides you with tools to help you access, understand, allocate, control and optimize your AWS costs and usage. These tools include AWS Bills, AWS Cost Explorer, AWS Budgets and AWS Cost and Usage Reports.


These tools give you access to the most comprehensive information about your AWS costs and usage including which AWS services are the main cost drivers. Knowing and understanding your usage and costs will enable you to plan ahead and improve your AWS implementation.




Introducing Part 3: AWS Support Services.

Support is an essential element for any system. Outages can result in a loss of productivity, high overhead rates, and even lost customers. Sometimes, it is helpful to have support that can provide deeper insight into a product you are trying to use. To prevent these losses and frustrations and have access to technical resources, you need to understand your support options. Let's review **AWS Support** and **AWS Support Plans** available to you.

AWS Support



- Provide unique combination of tools/expertise:
 - AWS Support
 - AWS Support Plans
- Support is provided for:
 - Experimenting with AWS
 - Production use of AWS
 - Business critical use of AWS




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Whether you are new or continuing to adopt AWS services and applications as your business solutions, we want help you do amazing things with AWS. AWS Support is there to provide you a unique combination of tools and expertise based on your current or future planned use cases.

AWS Support has been developed to provide complete support and the right resources to aid your success. We want to support all of our customers, including those who may just be experimenting with AWS, those who are looking for production uses of AWS, and also our customers who use AWS as a business-critical resource. AWS Support can vary the type of support provided depending on the customer's needs and goals in sight.

AWS Support



- Proactive guidance:
 - ✓ Technical Account Manager (TAM)
- Best practices:
 - ✓ Trusted Advisor
- Account assistance:
 - ✓ AWS Support Concierge



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With AWS, customers can plan, deploy, and optimize with confidence.

If a user would like proactive guidance, AWS Support has **Technical Account Managers (TAMs)** that are designated as that users primary point of contact. The Technical Account Manager, or TAM, can provide guidance, architectural review, and continuous ongoing communication to keep the user informed and prepared as they plan, deploy, and optimize their solutions.

If a user wants to ensure they follow best practices to increase performance and fault tolerance in the AWS environment, AWS Support has **AWS Trusted Advisor**. AWS Trusted Advisor is like a customized cloud expert, but is an online resource that checks for opportunities to reduce monthly expenditures and increase productivity.

For account assistance, the **Support Concierge** is a billing and account expert who will provide quick and efficient analysis on the issue. The concierge addresses all non-technical billing and account level inquiries.

Support Plans



AWS Support offers four support plans:

- 📦 **Basic Support:** Resource Center access, Service Health Dashboard, Product FAQs, Discussion Forums, and Support for Health Checks
- 📦 **Developer Support:** Support for early development on AWS
- 📦 **Business Support:** Customers running production workloads
- 📦 **Enterprise Support:** Customers running business and mission-critical workloads



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At AWS we want you to be able to plan, deploy and optimize with confidence and, to support you, we have developed specific plans to assist including Basic, Developer, Business, and Enterprise support plans.

- The **Basic Support Plan** offers:
 - 24/7 access to customer service, documentation, white papers and support forums.
 - Access to six core Trusted Advisor checks.
 - Access to Personal Health Dashboard.
- The **Developer Support Plan** offers resources for customers testing or doing early development on AWS, as well as any customers who:
 - Want access to guidance and technical support.
 - Are exploring how to quickly put AWS to work.
 - Use AWS for non-production workloads or applications.
- The **Business Support Plan** offers resources for customers running production workloads on AWS as well as any customers who:
 - Run one or more applications in production environments.
 - Have multiple services activated, or use key services extensively.
 - Depend on their business solutions to be available, scalable, and secure.
- The **Enterprise Support Plan** offers resources for customers running business and mission-critical workloads on AWS, as well as any customers who want to:
 - Focus on proactive management to increase efficiency and availability.

- Build and operate workloads following AWS best practices.
- Leverage AWS expertise to support launches and migrations.
- Use a Technical Account Manager (TAM) that provides technical expertise for the full range of AWS services and obtains a detailed understanding of your use case and technology architecture. The Technical Account Manager is the primary point of contact for ongoing support needs.

Support Plan Prices				
	BASIC	DEVELOPER	BUSINESS	ENTERPRISE
Cost	FREE	Greater of \$29 / month or 3% of monthly AWS usage	Greater of \$100 / month or 10% of monthly AWS usage for the first \$0–\$10K 7% of monthly AWS usage from \$10K–\$80K 5% of monthly AWS usage from \$80K–\$250K 3% of monthly AWS usage over \$250K	Greater of \$15,000 or 10% of monthly AWS usage for the first \$0–\$150K 7% of monthly AWS usage from \$150K–\$500K 5% of monthly AWS usage from \$500K–\$1M 3% of monthly AWS usage over \$1M
Tech Support		Business hour access via email	24x7, email, chat & phone	24x7, email, chat & phone
Technical Account Manager (TAM)	NO	NO	NO	YES
Who can open cases?	No one	1 Person / Unlimited Cases	Unlimited Contacts / Unlimited Cases	Unlimited Contacts / Unlimited Cases

Displayed are the support plans offering different services and price points.

Select the links to learn more.

<https://aws.amazon.com/premiumsupport/pricing/>.

<https://aws.amazon.com/premiumsupport/compare-plans/>.

Case Severity & Response Times



	Critical	Urgent	High	Normal	Low
Basic	No Case Support				
Developer Plan (Business hours)				12 hours or less	24 hours or less
Business Plan (24 x 7)		1 hour or less	4 hours or less	12 hours or less	24 hours or less
Enterprise Plan (24 x 7)	15 minutes or less	1 hour or less	4 hours or less	12 hours or less	24 hours or less

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In addition to understanding the costs associated with different support plans, it is critical to understand the service levels associated with each plan. In addition to the support plan you have selected, the case severity will drive the type of response that you receive. There are five different severity levels:


- **Critical:** Your business is at risk. Critical functions of your application are unavailable.
- **Urgent:** Your business is significantly impacted. Important functions of your application are unavailable.
- **High:** Important functions of your application are impaired or degraded.
- **Normal:** Non-critical functions of your application are behaving abnormally, or you have a time-sensitive development question.
- **Low:** You have a general development question, or you want to request a feature.

Note that there is no case support with the Basic Support Plan. These response times should be considered when determining which support plan is best for your organization.

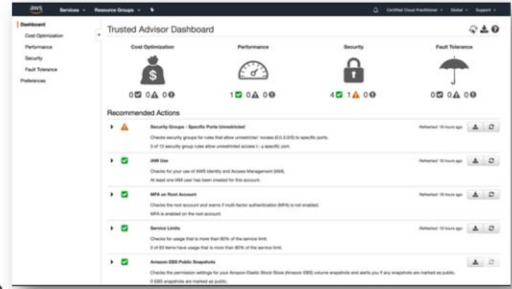
Select the link to review a full support plan comparison.

<https://aws.amazon.com/premiumsupport/compare-plans/>.

AWS Trusted Advisor



- 📦 Online resource to:
 - ✓ Reduce cost
 - ✓ Increase performance
 - ✓ Improve security
- 📦 Core checks and recommendations available to all customers.
- 📦 Full Trusted Advisor benefits available with Business or Enterprise support plans.
- 📦 Located in the Management Tools section of the console.



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An **AWS Trusted Advisor** is available to help users follow best practices that increase performance and fault tolerance of their AWS environment. Trusted Advisor is an online resource to help you reduce costs, increase performance, and improve security by optimizing your AWS environment.

There are two types of trusted advisor options:

- **Core checks and Recommendations** come with all accounts.
- **Full Trusted Advisor** for Business and Enterprise support offerings.

Access AWS Trusted Advisor from the Management Tools section of the console.


The Trusted Advisor provides real-time guidance to help you provision your resources following AWS best practices and to advise you on cost optimization, performance, security, and fault tolerance.

An AWS Trusted Advisor is not focused on just one service and it is not just a security tool. An AWS Trusted Advisor will tell you how the infrastructure is performing, when security groups have been left open to the world, whether or not you are using fault tolerance, if you are at risk with all everything deployed in an Availability Zone, or if you have resources deployed that you are not using, but are still being charged for.

AWS White Papers and Documentation

📁 AWS White Papers are:

- ✓ Available at <https://aws.amazon.com/whitepapers>
- ✓ Collection of technical documents that outline AWS topics including:
 - Architecture best practices
 - Security best practices
 - Cloud Computing Economics
 - Serverless Architecture



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AWS White Papers are a collection of technical documents that outline many AWS relevant topics like architecting best practices and security best practices, Cloud Computing Economics and Serverless Architecture. You can access them by selecting the link.

These technical documents cover a tremendous range of ideas, thoughts, and concepts that apply to cloud computing and AWS services.

In Review



- ❏ AWS Support Plans include:
 - ❏ Basic Support plan
 - ❏ Developer Support plan
 - ❏ Business Support plan
 - ❏ Enterprise Support plan
- ❏ All support plans include
 - ❏ 24/7 access to customer service
 - ❏ AWS documentation, whitepapers, support forums
 - ❏ Access to six core trusted advisor checks
 - ❏ Access to personal health dashboard
- ❏ For resources beyond included services, select either the Developer, Business, or Enterprise support plans.



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AWS Support offers several different plan options that were created to fit your unique needs. These plans include the Basic Support Plan, the Developer Support Plan, Business Support Plan and the Enterprise Support Plan.

All support plans provide 24/7 access to customer service, AWS documentation, whitepapers, and support forums, access to six core Trusted Advisor Checks, and access to the personal Health Dashboard.

When additional technical support and support resources beyond this are required, you have the option to select from the Developer, Business, and Enterprise options to fit your unique business needs.

In Summary



- 📦 Discussed Organizations to understand options for account set up
- 📦 Reviewed AWS Billing and Cost Management to understand how to have visibility to AWS costs
- 📦 Identify alternative Support options and features

Up Next...

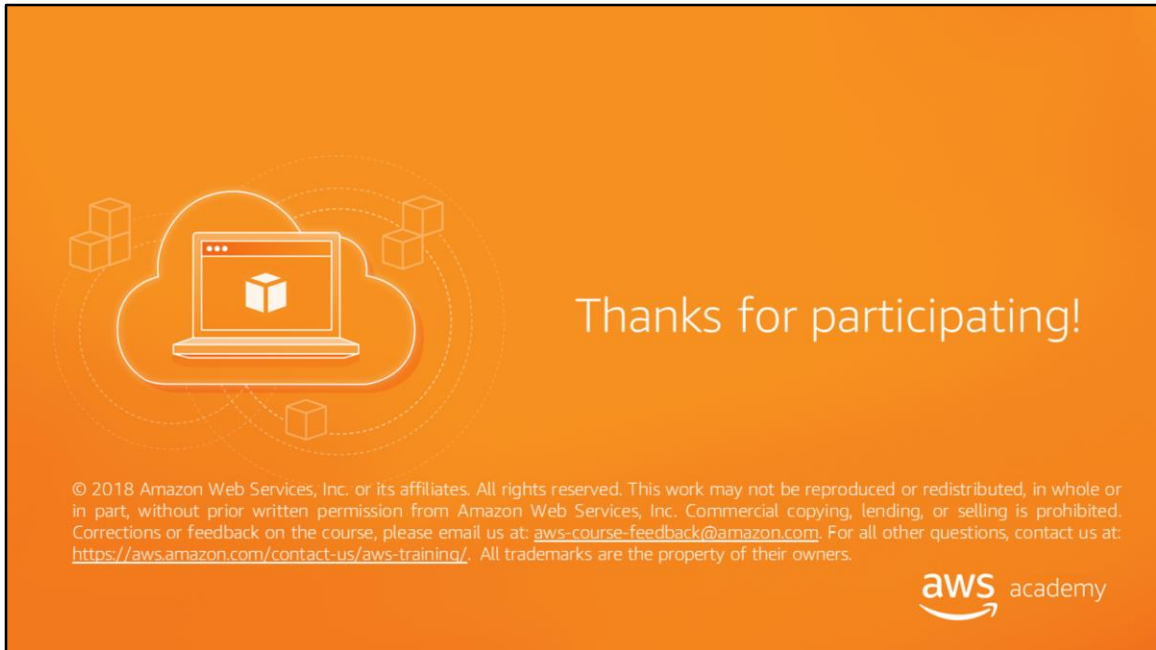
- 📦 Complete:  **Knowledge Assessment**

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In summary, we discussed Organizations to understand different setup options and their impact on costs.

We reviewed different AWS Billing and Cost Management tools to understand how to gain visibility into AWS costs, and identified alternative AWS Support Plan options and features.

Please take a moment to complete the Knowledge Assessment.



Thanks for participating!