$\supseteq$ 

Amazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies
J. What is Amazon CloudFront?

Amazon CloudFront is a web service that gives businesses and web application developers an easy and cost effective way to distribute content with low latency and high data transfer speeds. Like other AWS services, Amazon CloudFront is a self-service, pay-per-use offering, requiring no long term commitments or minimum fees. With CloudFront, your files are delivered to end-users using a global network of edge locations.

# Q. What can I do with Amazon CloudFront?

Amazon CloudFront provides a simple API that lets you:

- Distribute content with low latency and high data transfer rates by serving requests using a network of edge locations around the world.
- Get started without negotiating contracts and minimum commitments.

# Q. How do I get started with Amazon CloudFront?

Click the "Create Free Account" button on the Amazon CloudFront detail page. If you choose to use another AWS service as the origin for the files served through Amazon CloudFront, you must sign up for that service before creating CloudFront distributions.

# Q. How do I use Amazon CloudFront?

To use Amazon CloudFront, you:

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

(or the CNAME you set-up) is routed to the edge location best suited to deliver the content with the highest performance. The edge location will attempt to serve the request with a local copy of the file. If a local copy is not available, Amazon CloudFront will get a copy from the origin. This copy is then available at that edge location for future requests.

# Q. How does Amazon CloudFront provide higher performance?

Amazon CloudFront employs a global network of edge locations and regional edge caches that cache copies of your content close to your viewers. Amazon CloudFront ensures that end-user requests are served by the closest edge location. As a result, viewer requests travel a short distance, improving performance for your viewers. For files not cached at the edge locations and the regional edge caches, Amazon CloudFront keeps persistent connections with your origin servers so that those files can be fetched from the origin servers as quickly as possible. Finally, Amazon CloudFront uses additional optimizations – e.g. wider TCP initial congestion window – to provide higher performance while delivering your content to viewers.

# Q. How does Amazon CloudFront lower my costs to distribute content over the Internet?

Like other AWS services, Amazon CloudFront has no minimum commitments and charges you only for what you use. Compared to self-hosting, Amazon CloudFront spares you from the expense and complexity of operating a network of cache servers in multiple sites across the internet and eliminates the need to over-provision capacity in order to serve potential spikes in traffic. Amazon CloudFront also uses techniques such as collapsing simultaneous viewer requests at an edge location for the same file into a single request to your origin server. This reduces the load on your

mazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies

You also benefit from using different origins for different types of content on a single site – e.g. Amazon S3 for static objects, Amazon EC2 for dynamic content, and custom origins for third-party content – paying only for what you use.

# Q. How is Amazon CloudFront different from Amazon S3?

Amazon CloudFront is a good choice for distribution of frequently accessed static content that benefits from edge delivery—like popular website images, videos, media files or software downloads.

# Q. How is Amazon CloudFront different from traditional content delivery solutions?

Amazon CloudFront lets you quickly obtain the benefits of high performance content delivery without negotiated contracts or high prices. Amazon CloudFront gives all developers access to inexpensive, pay-as-you-go pricing – with a self-service model. Developers also benefit from tight integration with other Amazon Web Services. The solution is simple to use with Amazon S3, Amazon EC2, and Elastic Load Balancing as origin servers, giving developers a powerful combination of durable storage and high performance delivery. Amazon CloudFront also integrates with Amazon Route 53 and AWS CloudFormation for further performance benefits and ease of configuration.

# Q. What types of content does Amazon CloudFront support?

Amazon CloudFront supports all files that can be served over HTTP. This includes dynamic web pages, such as HTML or PHP pages, any popular static files that are a part of your web application,

 $\supseteq$ 

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

Yes. You can use the AWS Management Console to configure and manage Amazon CloudFront though a simple, point-and-click web interface. The AWS Management Console supports most of Amazon CloudFront's features, letting you get Amazon CloudFront's low latency delivery without writing any code or installing any software. Access to the AWS Management Console is provided free of charge at https://console.aws.amazon.com.

# Q: What tools and libraries work with Amazon CloudFront?

There are a variety of tools for managing your Amazon CloudFront distribution and libraries for various programming languages available in our resource center.

# Q. Can I point my zone apex (example.com versus www.example.com) at my Amazon CloudFront distribution?

Yes. By using Amazon Route 53, AWS's authoritative DNS service, you can configure an 'Alias' record that lets you map the apex or root (example.com) of your DNS name to your Amazon CloudFront distribution. Amazon Route 53 will then respond to each request for an Alias record with the right IP address(es) for your CloudFront distribution. Route 53 doesn't charge for queries to Alias records that are mapped to a CloudFront distribution. These queries are listed as "Intra-AWS-DNS-Queries" on the Amazon Route 53 usage report.

# **Edge locations**

Amazon CloudFront ∨	
Overview	
Features	
Pricing	
Getting Started	
Resources ▼	
FAQs	
Case Studies	

the need for CloudFront to go back to your origin webserver and improving overall performance for viewers. For example, CloudFront edge locations in Europe now go to the regional edge cache in Frankfurt to fetch an object before going back to your origin webserver. Regional edge cache locations are currently used only for requests that need to go back to a custom origin; i.e. requests to S3 origins will skip regional edge cache locations.

# Q. Is regional edge cache feature enabled by default?

Yes. You do not need to make any changes to your CloudFront distributions; this feature is enabled by default for all new and existing CloudFront distributions. There are no additional charges to use this feature.

# Q. Where are the edge network locations used by Amazon CloudFront located?

Amazon CloudFront uses a global network of edge locations and regional edge caches for content delivery. You can see a full list of Amazon CloudFront locations here.

# Q. Can I choose to serve content (or not serve content) to specified countries?

Yes, the Geo Restriction feature lets you specify a list of countries in which your users can access your content. Alternatively, you can specify the countries in which your users cannot access your content. In both cases, CloudFront responds to a request from a viewer in a restricted country with an HTTP status code 403 (Forbidden).

# Q. How accurate is your GeoIP database?

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

period as snort as 0 seconds, or as long as you dlike, by setting the cache control headers on your files in your origin. Amazon CloudFront uses these cache control headers to determine how frequently it needs to check the origin for an updated version of that file. For expiration period set to 0 seconds, Amazon CloudFront will revalidate every request with the origin server. If your files don't change very often, it is best practice to set a long expiration period and implement a versioning system to manage updates to your files.

# Q. How do I remove an item from Amazon CloudFront edge locations?

There are multiple options for removing a file from the edge locations. You can simply delete the file from your origin and as content in the edge locations reaches the expiration period defined in each object's HTTP header, it will be removed. In the event that offensive or potentially harmful material needs to be removed before the specified expiration time, you can use the Invalidation API to remove the object from all Amazon CloudFront edge locations. You can see the charge for making invalidation requests here.

# Q. Is there a limit to the number of invalidation requests I can make?

If you're invalidating objects individually, you can have invalidation requests for up to 3,000 objects per distribution in progress at one time. This can be one invalidation request for up to 3,000 objects, up to 3,000 requests for one object each, or any other combination that doesn't exceed 3,000 objects.

If you're using the \* wildcard, you can have requests for up to 15 invalidation paths in progress at one time. You can also have invalidation requests for up to 3,000 individual objects per distribution

Amazon CloudFront	<b>~</b>		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

service providers. Please see our developer's guide for more information.

# Q: Is Amazon CloudFront HIPAA eligible?

Yes, AWS has expanded its HIPAA compliance program to include Amazon CloudFront as a HIPAA eligible service. If you have an executed Business Associate Agreement (BAA) with AWS, you can use Amazon CloudFront to accelerate the delivery of protected health information (PHI). For more information, see HIPAA Compliance and our developer's guide.

# Q: Is Amazon CloudFront SOC compliant?

Yes, Amazon CloudFront is compliant with SOC (System & Organization Control) measures. SOC Reports are independent third-party examination reports that demonstrate how AWS achieves key compliance controls and objectives. For more information see, AWS SOC Compliance and our developer's guide.

# Q: How do I request an AWS SOC1, SOC 2, or SOC 3 Report?

The AWS SOC 1 and SOC 2 reports are available to customers by using AWS Artifact, a self-service portal for on-demand access to AWS compliance reports. Sign in to AWS Artifact in the AWS Management Console, or learn more at Getting Started with AWS Artifact. The latest AWS SOC 3 Report is publicly available on the AWS website.

Amazon CloudFront	<b>~</b>		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

the Management Console. In the Console, go to the "Distribution Configuration" page and navigate to the section "Supported HTTP Versions." There, you can select "HTTP/2, HTTP/1.1, or HTTP/1.0". HTTP/2 is automatically enabled for all new CloudFront distributions.

# Q. What if my origin does not support HTTP/2?

Amazon CloudFront currently supports HTTP/2 for delivering content to your viewers' clients and browsers. For communication between the edge location and your origin servers, Amazon CloudFront will continue to use HTTP/1.1.

# Q. Does Amazon CloudFront support HTTP/2 without TLS?

Not currently. However, most of the modern browsers support HTTP/2 only over an encrypted connection. You can learn more about using SSL with Amazon CloudFront here.

# HTTP and HTTP/2

# Q. What types of HTTP requests are supported by Amazon CloudFront?

Amazon CloudFront currently supports GET, HEAD, POST, PUT, PATCH, DELETE and OPTIONS requests.

# Q. Does Amazon CloudFront cache POST responses?

Amazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies
CIQUALIONI WILL CONTINUE TO USE HILLE/ L. L.

# Q. Does Amazon CloudFront support HTTP/2 without TLS?

Not currently. However, most of the modern browsers support HTTP/2 only over an encrypted connection. You can learn more about using SSL with Amazon CloudFront here.

# **Security**

# Q. Can I configure my CloudFront distribution to deliver content over HTTPS using my own domain name?

By default, you can deliver your content to viewers over HTTPS by using your CloudFront distribution domain name in your URLs, for example, https://dxxxxx.cloudfront.net/image.jpg. If you want to deliver your content over HTTPS using your own domain name and your own SSL certificate, you can use one of our Custom SSL certificate support features. Learn more.

# Q. What is Field-Level Encryption?

Field-Level Encryption is a feature of CloudFront that allows you to securely upload user-submitted data such as credit card numbers to your origin servers. Using this functionality, you can further encrypt sensitive data in an HTTPS form using field-specific encryption keys (which you supply) before a PUT/ POST request is forwarded to your origin. This ensures that sensitive data can only

Amazon CloudFront	<b>~</b>		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

with neid-level encryption, Cloud-ront's edge locations can encrypt the credit card data. From that point on, only applications that have the private keys can decrypt the sensitive fields. So the order fulfillment service can only view encrypted credit card numbers, but the payment services can decrypt credit card data. This ensures a higher level of security since even if one of the application services leaks cipher text, the data remains cryptographically protected.

# Q. What is the difference between SNI Custom SSL and Dedicated IP Custom SSL of Amazon CloudFront?

**Dedicated IP Custom SSL** allocates dedicated IP addresses to serve your SSL content at each CloudFront edge location. Because there is a one to one mapping between IP addresses and SSL certificates, Dedicated IP Custom SSL works with browsers and other clients that do not support SNI. Due to the current IP address costs, Dedicated IP Custom SSL is \$600/month prorated by the hour.

**SNI Custom SSL** relies on the SNI extension of the Transport Layer Security protocol, which allows multiple domains to serve SSL traffic over the same IP address by including the hostname viewers are trying to connect to. As with Dedicated IP Custom SSL, CloudFront delivers content from each Amazon CloudFront edge location and with the same security as the Dedicated IP Custom SSL feature. SNI Custom SSL works with most modern browsers, including Chrome version 6 and later (running on Windows XP and later or OS X 10.5.7 and later), Safari version 3 and later (running on Windows Vista and later or Mac OS X 10.5.6. and later), Firefox 2.0 and later, and Internet Explorer 7 and later (running on Windows Vista and later). Older browsers that do not support SNI cannot establish a connection with CloudFront to load the HTTPS version of your content. SNI Custom SSL is available at no additional cost beyond standard CloudFront data transfer and request fees.

Amazon CloudFront	~	
Overview		
Features		
Pricing		
Getting Started		
Resources ▼		
FAQs		
Case Studies		
additional charges.		

Note that CloudFront still supports using certificates that you obtained from a third-party certificate authority and uploaded to the IAM certificate store.

# Q. Does Amazon CloudFront support access controls for paid or private content?

Yes, Amazon CloudFront has an optional private content feature. When this option is enabled, Amazon CloudFront will only deliver files when you say it is okay to do so by securely signing your requests. Learn more about this feature by reading the CloudFront Developer Guide.

# Q. How can I safeguard my web applications delivered via CloudFront from DDoS attacks?

As an AWS customer, you get AWS Shield Standard at no additional cost. AWS Shield is a managed service that provides protection against DDoS attacks for web applications running on AWS. AWS Shield Standard provides protection for all AWS customers against common and most frequently occurring Infrastructure (layer 3 and 4) attacks like SYN/UDP Floods, Reflection attacks, and others to support high availability of your applications on AWS.

AWS Shield Advanced is an optional paid service available to AWS Business Support and AWS Enterprise Support customers. AWS Shield Advanced provides additional protections against larger and more sophisticated attacks for your applications running on Elastic Load Balancing (ELB), Amazon CloudFront and Route 53.

# Q. How can I protect my web applications delivered via CloudFront?

Amazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies
only allow requests that contain the custom header values you specify, Additionally, if you use

multiple CloudFront distributions with the same origin, you can use custom headers to distinguish origin request made by each different distribution. Finally, custom headers can be used to help determine the right CORS headers returned for your requests. You can configure custom headers via the CloudFront API and the AWS Management Console. There are no additional charges for this feature. For more details on how to set your custom headers, you can read more here.

# Q. How does Amazon CloudFront handle HTTP cookies?

Amazon CloudFront supports delivery of dynamic content that is customized or personalized using HTTP cookies. To use this feature, you specify whether you want Amazon CloudFront to forward some or all of your cookies to your custom origin server. Amazon CloudFront then considers the forwarded cookie values when identifying a unique object in its cache. This way, your end users get both the benefit of content that is personalized just for them with a cookie and the performance benefits of Amazon CloudFront. You can also optionally choose to log the cookie values in Amazon CloudFront access logs.

# Q. How does Amazon CloudFront handle query string parameters in the URL?

A query string may be optionally configured to be part of the cache key for identifying objects in the Amazon CloudFront cache. This helps you build dynamic web pages (e.g. search results) that may be cached at the edge for some amount of time.

# Q. Can I specify which query parameters are used in the cache key?

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

specify in your cache behavior settings that you would like CloudFront to compress objects automatically and ensure that your client adds Accept-Encoding: gzip in the request header (most modern web browsers do this by default). For more information on this feature, please see our developer guide.

# Streaming

# Q. What is streaming? Why would I want to stream?

Generally, streaming refers to delivering audio and video to end users over the Internet without having to download the media file prior to playback. The protocols used for streaming include those that use HTTP for delivery such as Apple's HTTP Live Streaming (HLS), MPEG Dynamic Adaptive Streaming over HTTP (MPEG-DASH), Adobe's HTTP Dynamic Streaming (HDS) and Microsoft's Smooth Streaming. These protocols are different than the delivery of web pages and other online content because streaming protocols deliver media in real time – viewers watch the bytes as they are delivered. Streaming content has several potential benefits for you and your endusers:

- Streaming can give viewers more control over their viewing experience. For instance, it is easier
  for a viewer to seek forward and backward in a video using streaming than using traditional
  download delivery.
- Streaming can give you more control over your content, as no file remains on the viewer's client or local drive when they finish watching a video.



Amazon CloudFront	~	
Overview		
Features		
Pricing		
Getting Started		
Resources ▼		
FAQs		
Case Studies		

Visit the Video on Demand (VOD) on AWS page to learn more.

# Q. Does Amazon CloudFront support live streaming to multiple platforms?

Yes. You can use Amazon CloudFront live streaming with any live video origination service that outputs HTTP-based streams, such as AWS Elemental MediaPackage or AWS Elemental MediaStore. MediaPackage is a video origination and just-in-time packaging service that allows video distributors to securely and reliably deliver streaming content at scale using multiple delivery and content protection standards. MediaStore is an HTTP origination and storage service that offers the high performance, immediate consistency, and predictable low latency required for live media combined with the security and durability of Amazon storage.

Visit the AWS Live Video Streaming page to learn more.

# Limits

# Q. Can I use Amazon CloudFront if I expect usage peaks higher than 10 Gbps or 15,000 RPS?

Yes. Complete our request for higher limits here, and we will add more capacity to your account within two business days.

Q: Is there a limit to the number of distributions my Amazon CloudFront account may deliver?

 $\mathbb{Q} \equiv$ 

Am	azon CloudFront ∨
O	verview
F	eatures
P	ricing
G	etting Started
R	esources 🔻
F	AQs
C	ase Studies

enabled, this feature will automatically write detailed log information in a W3C extended format into an Amazon S3 bucket that you specify. Access logs contain detailed information about each request for your content, including the object requested, the date and time of the request, the edge location serving the request, the client IP address, the referrer, the user agent, the cookie header, and the result type (for example, cache hit/miss/error).

# Q: Does Amazon CloudFront offer ready-to-use reports so I can learn more about my usage, viewers, and content being served?

Yes. Whether it's receiving detailed cache statistics reports, monitoring your CloudFront usage, seeing where your customers are viewing your content from, or setting near real-time alarms on operational metrics, Amazon CloudFront offers a variety of solutions for your reporting needs. You can access all our reporting options by visiting the Amazon CloudFront Reporting & Analytics dashboard in the AWS Management Console. You can also learn more about our various reporting options by viewing Amazon CloudFront's Reports & Analytics page.

# Q: Can I tag my distributions?

Yes. Amazon CloudFront supports cost allocation tagging. Tags make it easier for you to allocate costs and optimize spending by categorizing and grouping AWS resources. For example, you can use tags to group resources by administrator, application name, cost center, or a specific project. To learn more about cost allocation tagging, see Using Cost Allocation Tags. If you are ready to add tags to you CloudFront distributions, see Amazon CloudFront Add Tags page.

Amazon CloudFront	<b>~</b>		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

Guide or simply navigate to the Amazon CloudFront Management Console and select Monitoring & Alarming in the navigation pane.

# Lambda@Edge

# Q: What is Lambda@Edge?

Lambda@Edge allows you to run code at global AWS edge locations without provisioning or managing servers, responding to end users at the lowest network latency. You just upload your Node.js code to AWS Lambda and configure your function to be triggered in response to Amazon CloudFront requests (i.e., when a viewer request lands, when a request is forwarded to or received back from the origin, and right before responding back to the end user). The code is then ready to execute at every AWS edge location when a request for content is received, and scales with the volume of requests across CloudFront edge locations. Learn more in our documentation.

# Q. How do I customize content with Lambda@Edge?

Once you have identified a content delivery decision you would like to make at the CloudFront edge, identify which cache behaviors, and what point in the request flow the logic applies to (i.e., when a viewer request lands, when a request is forwarded to or received back from the origin, or right before responding back to the end viewer). Next, write a Node.js Lambda function using the Lambda console or API, and associate it with the selected CloudFront trigger event for your distribution. Once saved, the next time an applicable request is made to your distribution, the

Amazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies
<ul> <li>Urigin Response - This event occurs when the Cloud-ront server at the edge receives a response</li> </ul>

# IPv6

# Q. What is IPv6?

from your backend origin webserver.

Every server and device connected to the Internet must have a numeric Internet Protocol (IP) address. As the Internet and the number of people using it grows exponentially, so does the need for IP addresses. IPv6 is a new version of the Internet Protocol that uses a larger address space than its predecessor IPv4. Under IPv4, every IP address is 32 bits long, which allows 4.3 billion unique addresses. An example IPv4 address is 192.0.2.1. In comparison, IPv6 addresses are 128 bits, which allow for approximately three hundred and forty trillion, trillion unique IP addresses. An example IPv6 address is: 2001:0db8:85a3:0:0:8a2e:0370:7334

# Q. What can I do with IPv6?

Using IPv6 support for Amazon CloudFront, your applications can connect to Amazon CloudFront edge locations without needing any IPv6 to IPv4 translation software or systems. You can meet the requirements for IPv6 adoption set by governments - including the U.S. Federal government – and benefit from IPv6 extensibility, simplicity in network management, and additional built-in support for security.

# Q. Should I expect a change in Amazon CloudFront performance when using IPv6?

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

Additionally, if you use IP whitelists for Trusted Signers, you should use an IPv4-only distribution for your Trusted Signer URLs with IP whitelists and an IPv4 / IPv6 distribution for all other content. This model sidesteps an issue that would arise if the signing request arrived over an IPv4 address and was signed as such, only to have the request for the content arrive via a different IPv6 address that is not on the whitelist.

To learn more about IPv6 support in Amazon CloudFront, see "IPv6 support on Amazon CloudFront" in the Amazon CloudFront Developer Guide.

# Q: Does that mean if I want to use IPv6 at all I cannot use Trusted Signer URLs with IP whitelist?

No. If you want to use IPv6 and Trusted Signer URLs with IP whitelist you should use two separate distributions. You should dedicate a distribution exclusively to your Trusted Signer URLs with IP whitelist and disable IPv6 for that distribution. You would then use another distribution for all other content, which will work with both IPv4 and IPv6.

# Q. If I enable IPv6, will the IPv6 address appear in the Access Log?

Yes, your viewer's IPv6 addresses will now be shown in the "c-ip" field of the access logs, if you have the Amazon CloudFront Access Logs feature enabled. You may need to verify that your log processing systems continue to work for IPv6 addresses before you turn on IPv6 for your distributions. Please contact Developer Support if you have any issues with IPv6 traffic impacting your tool or software's ability to handle IPv6 addresses in access logs. For more details, please refer to the Amazon CloudFront Access Logs documentation.



Amazon CloudFront ∨
Overview
Features
Pricing
Getting Started
Resources ▼
FAQs
Case Studies

Amazon CloudFront has very diverse connectivity around the globe, but there are still certain networks that do not have ubiquitous IPv6 connectivity. While the long term future of the Internet is obviously IPv6, for the foreseeable future every endpoint on the Internet will have IPv4 connectivity. When we find parts of the Internet that have better IPv4 connectivity than IPv6, we will prefer the former.

Q: If I use Route 53 to handle my DNS needs and I created an alias record pointing to an Amazon CloudFront distribution, do I need to update my alias records to enable IPv6?

Yes, you can create Route 53 alias records pointing to your Amazon CloudFront distribution to support both IPv4 and IPv6 by using "A" and "AAAA" record type respectively. If you want to enable IPv4 only, you need only one alias record with type "A". For details on alias resource record sets, please refer to the Amazon Route 53 Developer Guide.

# **Billing**

# Q. How will I be charged for my use of Amazon CloudFront?

Amazon CloudFront charges are based on actual usage of the service in four areas: Data Transfer Out, HTTP/HTTPS Requests, Invalidation Requests, and Dedicated IP Custom SSL certificates associated with a CloudFront distribution.

 $\mathbb{Q} \equiv$ 

Amazon CloudFront	~		
Overview			
Features			
Pricing			
Getting Started			
Resources ▼			
FAQs			
Case Studies			

CloudFront edge locations to your origin (both AWS origins and other origin servers). You can see the rates for Amazon CloudFront data transfer to Origin here.

# HTTP/HTTPS Requests

You will be charged for number of HTTP/HTTPS requests made to Amazon CloudFront for your content. You can see the rates for HTTP/HTTPS requests here.

# Invalidation Requests

You are charged per path in your invalidation request. A path listed in your invalidation request represents the URL (or multiple URLs if the path contains a wildcard character) of the object you want to invalidate from CloudFront cache. You can request up to 1,000 paths each month from Amazon CloudFront at no additional charge. Beyond the first 1,000 paths, you will be charged per path listed in your invalidation requests. You can see the rates for invalidation requests here.

### Dedicated IP Custom SSL

You pay \$600 per month for each custom SSL certificate associated with one or more CloudFront distributions using the Dedicated IP version of custom SSL certificate support. This monthly fee is pro-rated by the hour. For example, if you had your custom SSL certificate associated with at least one CloudFront distribution for just 24 hours (i.e. 1 day) in the month of June, your total charge for using the custom SSL certificate feature in June will be (1 day / 30 days) \* \$600 = \$20. To use Dedicated IP Custom SSL certificate support, upload a SSL certificate and use the AWS Management Console to associate it with your CloudFront distributions. If you need to associate more than two custom SSL certificates with your CloudFront distribution, please include details about your use case and the number of custom SSL certificates you intend to use in the CloudFront Limit Increase Form.

 $\mathbb{Q} \equiv$ 

Amazon CloudFront ∨	
Overview	
Features	
Pricing	
Getting Started	
Resources ▼	
FAQs	
Case Studies	

associated with your object.

# Q. Can I choose to only serve content from less expensive Amazon CloudFront regions?

Yes, "Price Classes" provides you an option to lower the prices you pay to deliver content out of Amazon CloudFront. By default, Amazon CloudFront minimizes end user latency by delivering content from its entire global network of edge locations. However, because we charge more where our costs are higher, this means that you pay more to deliver your content with low latency to endusers in some locations. Price Classes let you reduce your delivery prices by excluding Amazon CloudFront's more expensive edge locations from your Amazon CloudFront distribution. In these cases, Amazon CloudFront will deliver your content from edge locations within the locations in the price class you selected and charge you the data transfer and request pricing from the actual location where the content was delivered.

If performance is most important to you, you don't need to do anything; your content will be delivered by our whole network of locations. However, if you wish to use another Price Class, you can configure your distribution through the AWS Management Console or via the Amazon CloudFront API. If you select a price class that does not include all locations, some of your viewers, especially those in geographic locations that are not in your price class, may experience higher latency than if your content were being served from all Amazon CloudFront locations.

Note that Amazon CloudFront may still occasionally serve requests for your content from an edge location in a location that is not included in your price class. When this occurs, you will only be charged the rates for the least expensive location in your price class.

## Amazon CloudFront >

Overview

**Features** 

**Pricing** 

**Getting Started** 

**Resources** ▼

**FAQs** 

**Case Studies** 

## **AWS CLOUD PRACTITIONER ESSENTIALS**

Learn about AWS fundamentals to get an understanding of the AWS Cloud



### WHAT'S NEW WITH AWS

Learn about the latest products, services, and more



Sign In to the Console



**Twitter** 













# **AWS & Cloud Computing**

What is Cloud Computing?

What is Caching?

What is NoSQL?

What is DevOps?

# Amazon CloudFront Overview Features Pricing Getting Started Resources ▼ FAQs Case Studies Websites of Website Hosting Business Applications Perlying & Pagarage

**Backup & Recovery** 

**Disaster Recovery** 

**Data Archive** 

DevOps

**Serverless Computing** 

**Big Data** 

**High Performance Computing** 

**Mobile Services** 

**Digital Marketing** 

**Game Development** 

Digital Media

**Government & Education** 

Health

**Financial Services** 

Windows on AWS

Retail

Power & Utilities

Oil & Gas

Automotive

Blockchain

Manufacturing

# **Resources & Training**

**Developers** 

Java on AWS

JavaScript on AWS

## Amazon CloudFront >

Overview

**Features** 

**Pricing** 

**Getting Started** 

**Resources** ▼

**FAQs** 

## **Case Studies**

манаденнент сонѕоте

**Billing & Cost Management** 

Subscribe to Updates

**Personal Information** 

**Payment Method** 

**AWS Identity & Access Management** 

**Security Credentials** 

**Request Service Limit Increases** 

**Contact Us** 

## Amazon Web Services is Hiring.

Amazon Web Services (AWS) is a dynamic, growing business unit within Amazon.com. We are currently hiring Software Development Engineers, Product Managers, Account Managers, Solutions Architects, Support Engineers, System Engineers, Designers and more. Visit our careers page to learn more.

Amazon.com is an Equal Opportunity-Affirmative Action Employer – Minority / Female / Disability / Veteran / Gender Identity / Sexual Orientation.

LanguageBahasa IndonesiaDeutschEnglishEspañolFrançaisItalianoPortuguêsTiếng ViệtTürkçeРусский「ไทย日本語한국어中文 (简体)中文 (繁體)

 $\supseteq$ 

Amazon CloudFront	~		
Overview			
Features			
Pricing			
<b>Getting Started</b>			
Resources ▼			
FAQs			
Case Studies			