



CLOUDFLARE™

Training for CloudFlare's Certified Hosting Providers

Part I: What is CloudFlare? *Understand the benefits of CloudFlare*

What Is CloudFlare?

CloudFlare makes websites:

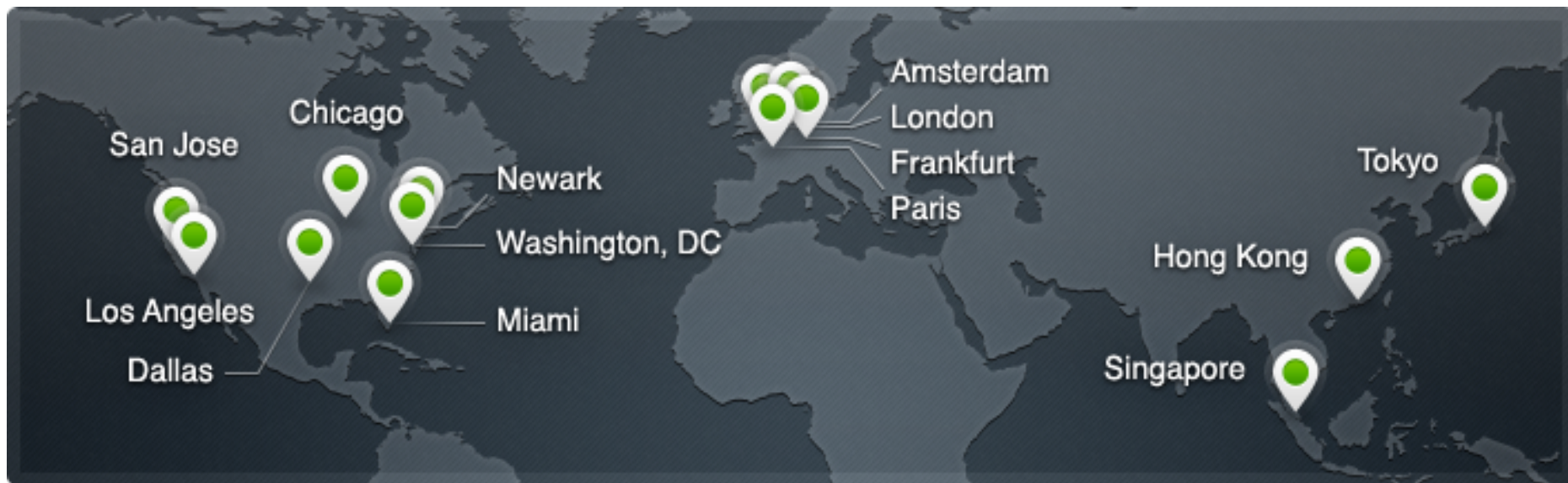
Faster

Safer

Smarter

How Does CloudFlare Work?

- CloudFlare works at the network level → CNAME edit
- Web traffic is routed through CloudFlare's network of 14 data centers

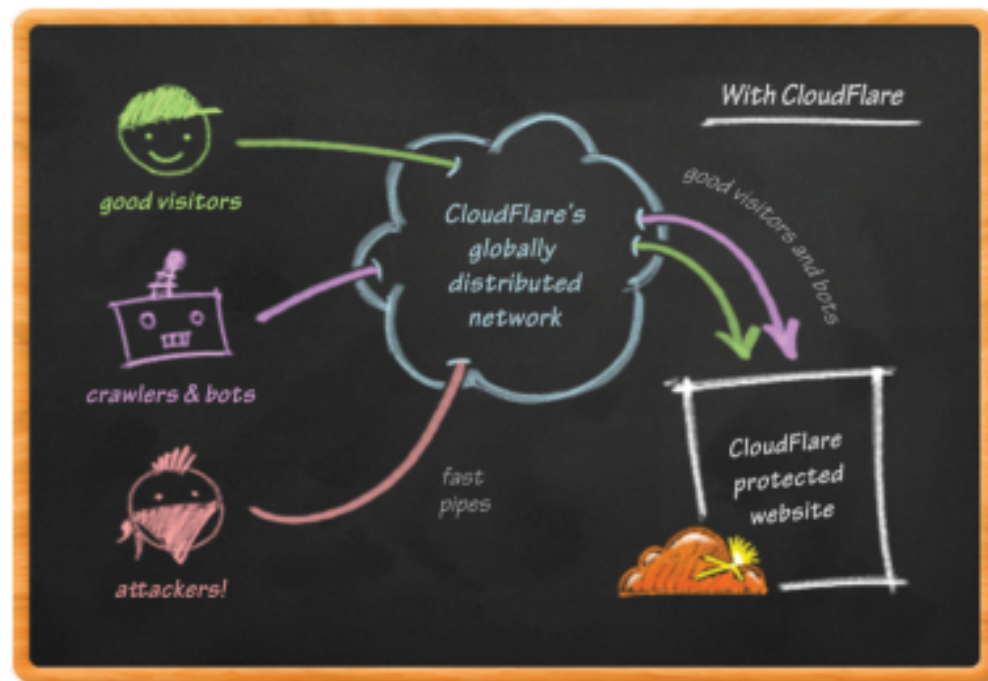


- At each location, CloudFlare does caching, web content optimization and malicious bot filtering

Before and After CloudFlare



Naked websites



CloudFlare powered websites are:

- Faster
- Safer
- Smarter

CloudFlare is a Next Generation CDN

Faster

CloudFlare automatically caches static content:

- CSS
- JavaScript
- Images
- Requires **zero** configuration
- Provides high gzip compression
- Is compatible with other CDN solutions

Result: The average website on CloudFlare loads:

- Twice as fast
- Sees 65% fewer requests
- Saves 60% in bandwidth

What is a CDN?

CDN = Content Delivery Network

How it works:

CDNs serve content stored at servers **closest** to the visitor.

The result → pages load faster

- CDN technology has been around a long time. The web's largest sites use CDNs for performance.
- Until now, CDNs have been expensive and hard to configure.

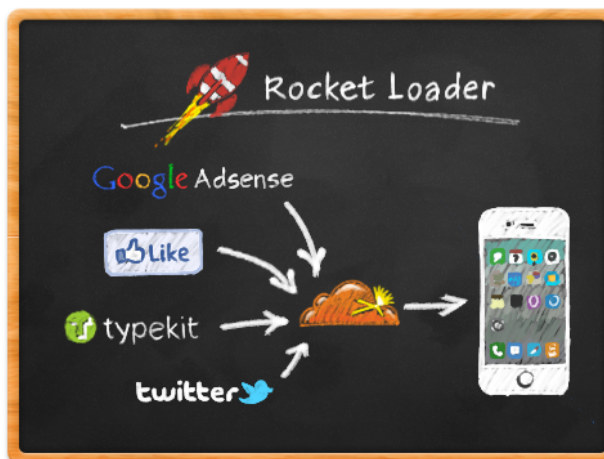
Easy Web Content Optimization

Faster

CloudFlare makes web content load efficiently by:

- Consolidating multiple network requests into one request
- Loading JavaScript asynchronously

The result → pages load snappier



Web Content Optimization

The webpage has evolved. Today websites are made up of:

- Widgets
- Plugins
- Ad servers
- Twitter Share / Facebook Like button
- All of these plug-ins and widgets are JavaScript-based
- Web content optimization makes sure the web page renders as quickly as possible

CloudFlare's Broad Security Protection

Safer

CloudFlare provides a layer of security against a broad range of attacks including:

- Comment spam
 - Content theft
 - Email harvesting
 - SQL injection
 - Cross-site scripting attacks (XSS)
 - DDoS attacks
-
- CloudFlare prevents over 90% of attacks. Your security risk is significantly lower
 - Our system ***gets smarter*** over time

Web Threats Are a Pain

- Many bots doing malicious activities online
 - Comment spam
 - Content theft
 - Email harvesting
 - SQL injection
 - Cross-site scripting attacks (XSS)
 - DDoS attacks
- Until recently, each category required a separate and time-consuming solution
- Most solutions are expensive and difficult to implement

CloudFlare's Security System Learns

Safer

CloudFlare's system automatically starts to block attack BEFORE it hits the origin server



●—● surge in traffic due to DDoS attack

■—■ CloudFlare identifies the new traffic as an attack and blocks it at our edge nodes

CloudFlare's Default Security is “Medium” Safer

CloudFlare security setting	<div>High ✓ Medium Low I'm under attack!</div>	Click here to enable
Development Mode is currently		Click here to enable
Cache Purge		Click here to purge
Always Online	<div>Off</div>	
Automatic IPv6	<div>Off</div>	
CloudFlare caching level	<div>✓ Aggressive Basic</div>	

- Users can select the desired level of protection directly from their control panel
- Partners integrated via cPanel also have access to the “I’m Under Attack” mode

Stop Heavy Attacks From the Control Panel

Safer

Cloudflare Settings for gxxx.com

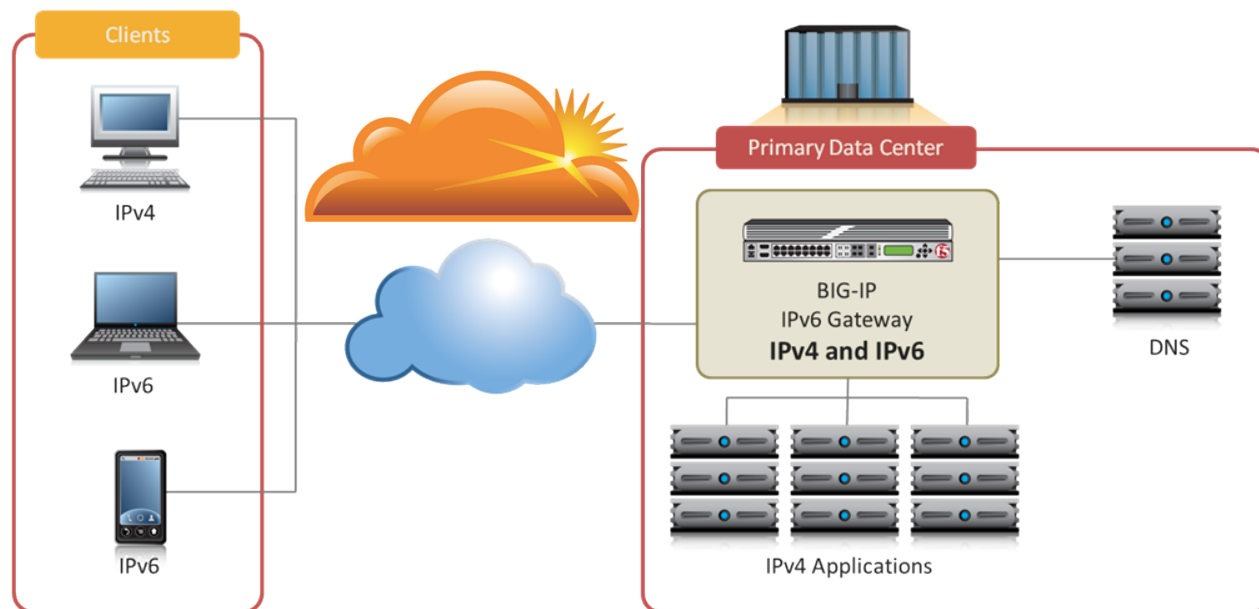
CloudFlare Account Type	Free		i
CloudFlare security setting	I'm under attack!		i
Development Mode is currently	off	Click here to enable	i
Cache Purge		Click here to purge	i
Always Online	Off		i
Automatic IPv6	Off		i
CloudFlare caching level	Aggressive		i

- Sites under attack can choose "I'm Under Attack Mode" directly from their control panel
- Works by adding an additional set of protections to stop malicious HTTP traffic from being passed to the origin server
- Reduces bandwidth to the origin server

Free IPv4 / IPv6 Gateway

Smarter

Your customers can continue to host on IPv4 and be available on IPv6



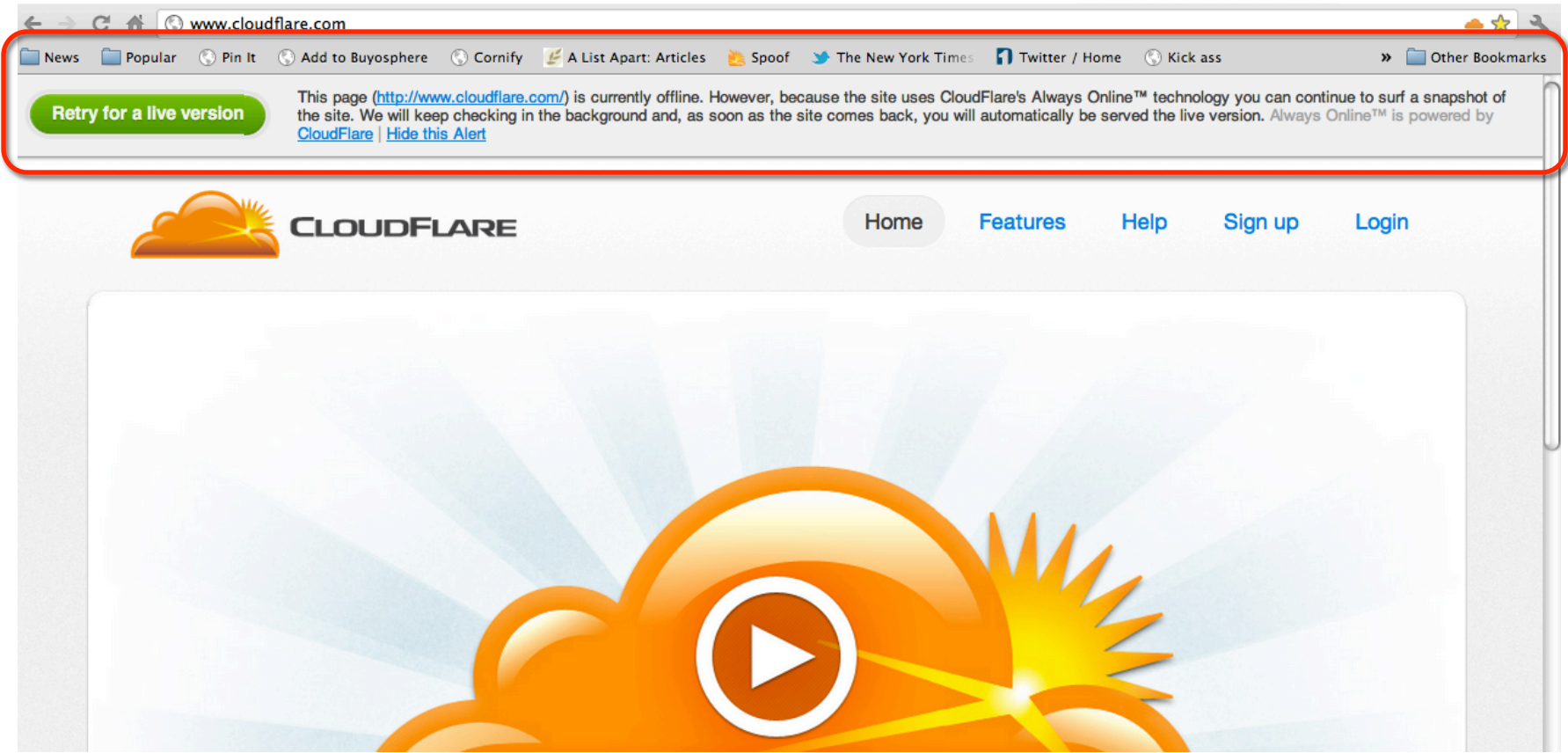
Why is IPv6 Compatibility Important?

- IPv4 addresses are running out around the world. As a result, there is a transition to IPv6 IP addresses
- IPv4 and IPv6 are not compatible with one another
- Today, 1% of web surfers are on IPv6 and can't reach websites on IPv4. Their number is growing fast in Asia & Europe.
- To make website servers IPv6-compatible requires an expensive hardware investment

Always Online (Forget 503 Errors)

Smarter

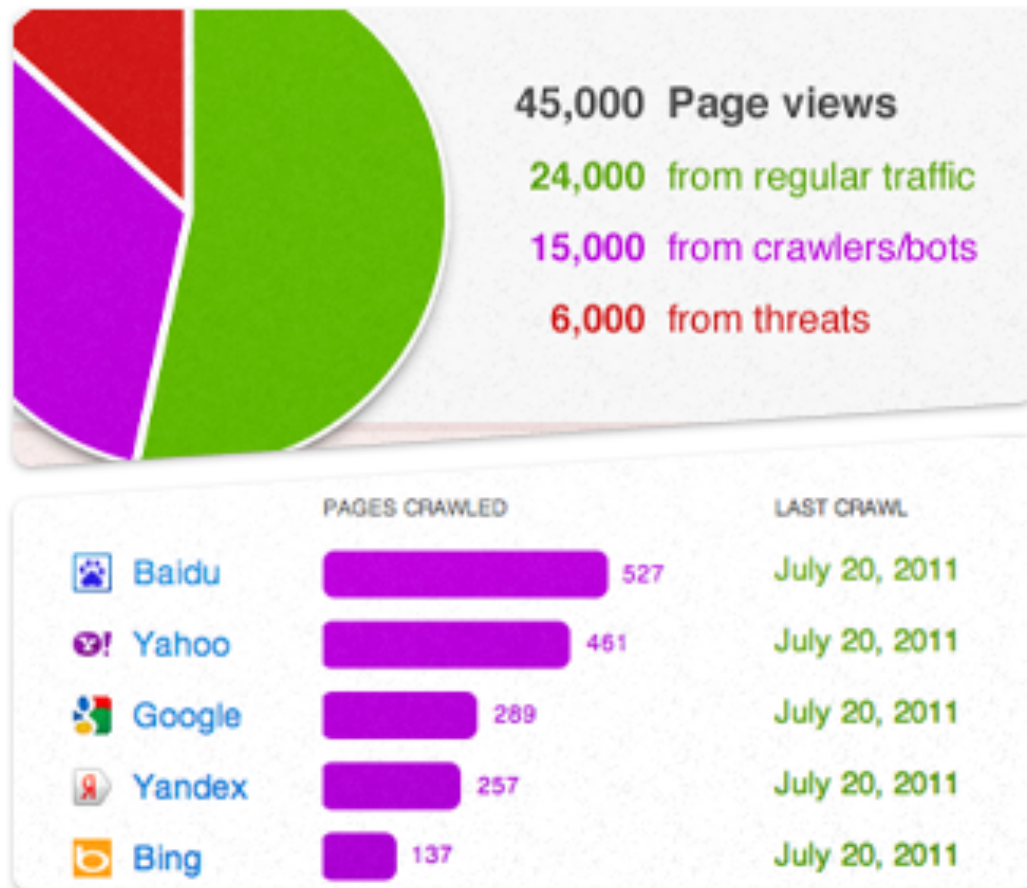
CloudFlare Always Online service keeps a cached copy of your customer's website so it is always available, even if the server goes offline



More Insight into Visitors



Smarter

CloudFlare analytics shows statistics on **all** of the visitors: humans, threats and search engine crawlers



Resources for our Certified Partners

Additional Resources

FAQ	www.cloudflare.com/wiki/Hosting_Partners:_Frequently_Asked_Questions
Troubleshooting	www.cloudflare.com/wiki/Hosting_Partners:_Troubleshooting_Help
Technical Support	http://support.cloudflare.com/cgi/discussion/new (select the Hosting Partner Support category)
General questions	partners@cloudflare.com
System Status 	@cloudflaresys
Follow us 	@cloudflare