

Content Delivery Network (CDN)



CDN Basics



Why Internet alone might not be enough

Internet does not optimize for performance

- Data Centers globally rely on the Internet to deliver content to edge devices
- Without a CDN, delivery of content suffers yielding poor customer experience
 - Routing complications, traffic and congestion, and security flaws
 - Explosion of devices, network types
 - Richer, more sophisticated content
 - Evolving protocols and formats
 - · Attacks, increasing in scale, sophistication

Cannot rely on Internet alone to deliver Azure workloads

Why should you care about CDN?







57% Abandon a website that takes more than 3 secs to load(1) 87% Stop Watching Video if video takes more than 7 secs to buffer (2)

1% Drop in revenue for 100ms slowdown for ecommerce site

Google

Add'l page load of 500 ms = 20% impact on ad rev

Microsoft Bing

Add'l page load of 2 sec = Reduction of 2.5% of clicks/requests

Amazon

Add'l page load of 100ms = 1% impact on revenue

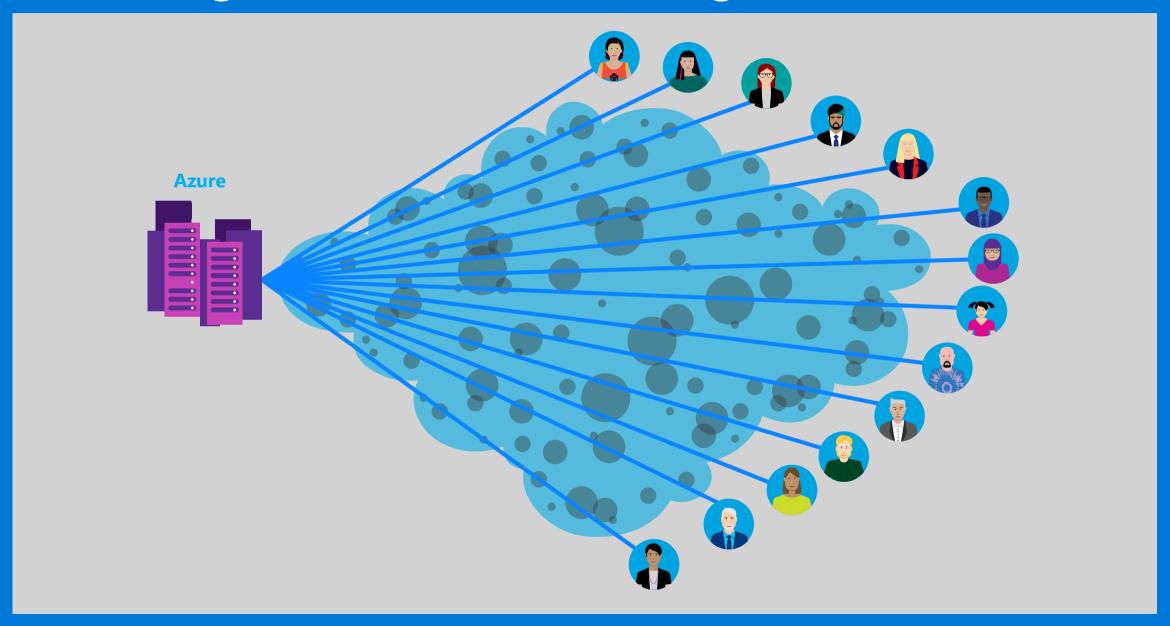
Yahoo

Improvement of 400 ms page load = 9% traffic increase

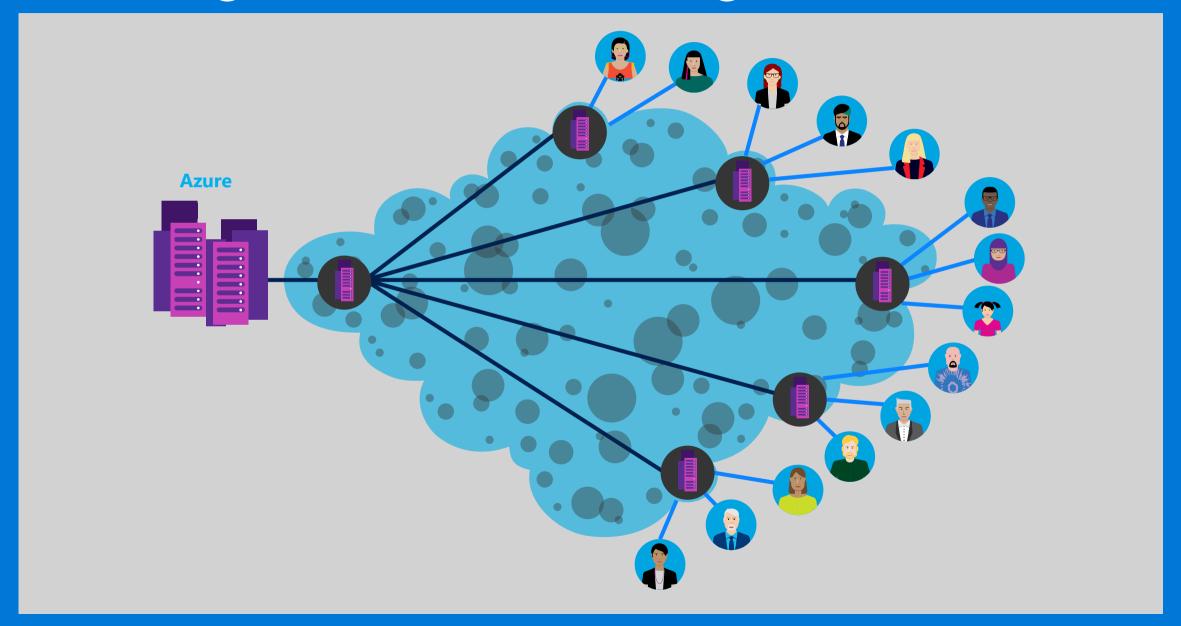
Mozilla

2.2 seconds less of download time for Firefox = 60 millions additional downloads!

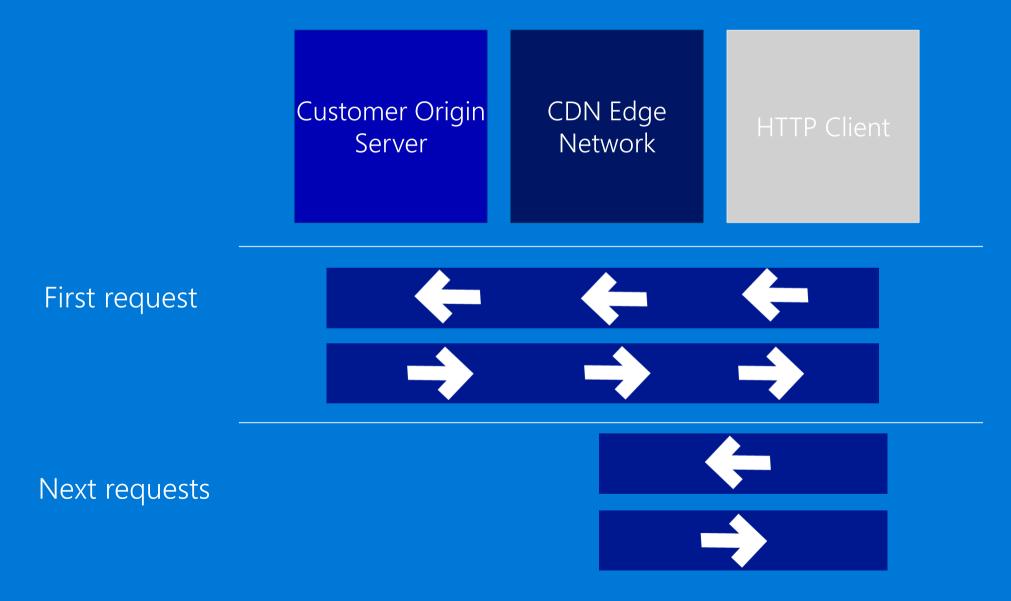
Delivering content from the edge of the internet



Delivering content from the edge of the internet



Caching with a CDN



CDN accelerates any web content

Static—fixed objects that aren't capable of action or change

Code









Dynamic—actions that take place in real time, rather than in advance

SaaS





Downloads





Web applications





Media



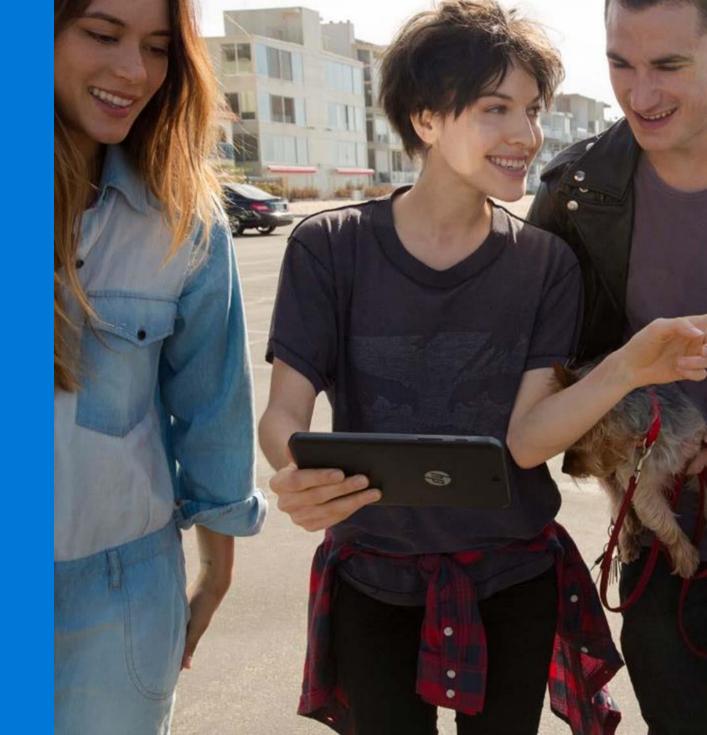








CDN Scenario Overview



Usage Scenarios CDN enhances delivery of



- ✓ Storage/Downloads
 - Firmware updates (Smart TVs, consumer electronic appliances, etc.)
 - Software updates
 - Gaming updates
- ✓ Websites
 - Customer facing websites and apps
 - Enterprise apps hosted in the cloud
- ✓ Media Delivery
 - Live + VOD
- ✓ Mobile Services
- ✓ Any Internet Facing service over HTTP or HTTPS

Industry Alignment



- ✓ Retail, Travel, & Hospitality
- √ Finance
- ✓ Entertainment
- ✓ Healthcare
- ✓ Manufacturing
- ✓ Public Sector
- ✓ Any Internet Facing Industry/Service

Resources and Next Steps



Resources

- Using CDN for Azure
 http://azure.microsoft.com/en-us/documentation/articles/cdn-how-to-use/
- CDN service overview http://azure.microsoft.com/en-us/services/cdn/
- CDN node locations
 http://msdn.microsoft.com/library/azure/gg680302.aspx
- CDN list pricing details http://azure.microsoft.com/en-us/pricing/details/cdn/

Thank you

