

Instant Website Protection Without Compromising Speed

OVERVIEW

In this fast-moving digital world, users have very little patience. Speed of your website has direct impact on the success of your business. Various studies suggests that for every second of latency added, page view decreases by 11 %. So no matter what business you are in, when it comes to page load, losing those precious seconds is simply not an option. You cannot compromise speed for any reason. But security is equally important, with constant breaches reported everyday, one cannot ignore security. There is a need to provide security without compromising speed.

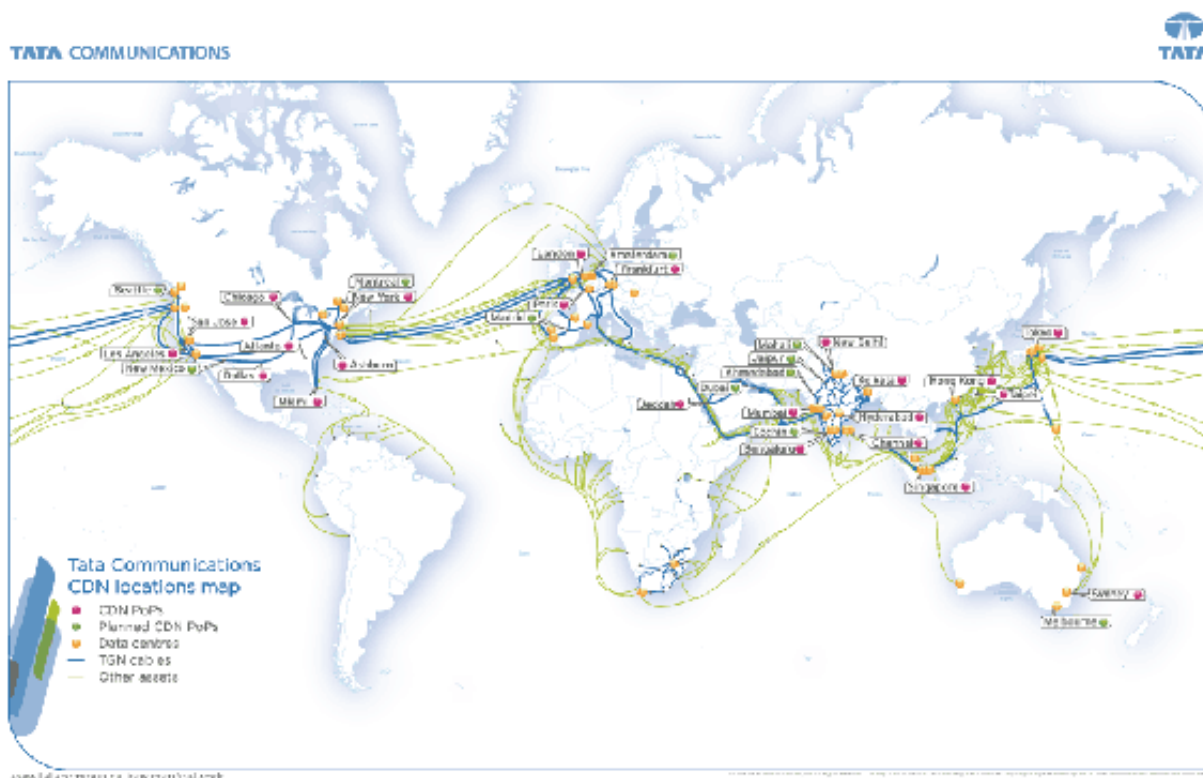
It is to solve this twin problem of speed and security that Indusface has partnered with TATA Communications. Through this partnership all our AppTrana customers will have option to enable CDN for their sites at no additional cost. Going forward, AppTrana customers need not second guess themselves if they are compromising speed for protection.

Tata Communications' Whole Site Acceleration (WSA) technology delivers the blazing fast speed and carrier-grade resilience you need to ensure content is always instantly accessible worldwide. This combined with AppTrana's completely managed protection provides customers unparalleled solution that not only protects your application but accelerates your site.

TATA COMMUNICATIONS NETWORK

Tata Communications' Whole Site Acceleration (WSA) technology makes worrying about traffic spikes, page load times and multi-device global delivery a thing of the past. So even if you're faced with flash traffic or unexpected 'thundering herd' surges, TATA's scalable, carrier-grade infrastructure has the resilience to take the challenge in its stride – and still be fast

Tata Communications owns the 4th largest Tier IP backbone which ensures reduced latency. It has more than 400 POPs across 5 continents and operates more than 1 million sq ft of data centre space in 44 locations worldwide. With 24% of the world's internet routes on our network, we offer greater flexibility and performance. Tata's Content Delivery Network offers the most direct routes between your content and your end users, and is uniquely engineered to reach both developed and emerging markets directly and quickly.



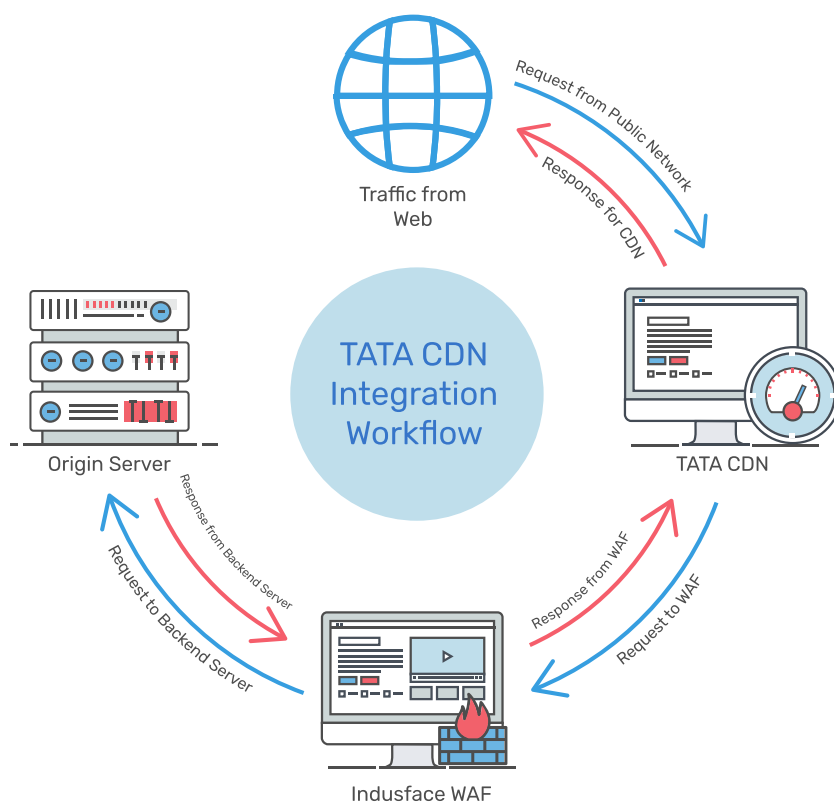
TATA Communications CDN offers high network redundancy and robustness, backed by tightly integrated connectivity and data centre infrastructures.

TATA CDN is one of the best in the world and consistently provides superior performance in both developed and emerging markets. Based on 3rd party independent test conducted by Cedexis, TATA CDN is ranked #1 in UK & France. Ranked #2 in India, Honk-kong, Japan, Taiwan & Mexico. Ranked #3 in US.

HOW DOES THE INTEGRATION WORK

Integration between TATA CDN and AppTrana have been made seamless. AppTrana is built bottom up on AWS with multi-region support. When a website is onboarded for AppTrana protection, it is onboarded on the region nearest to your backend server. For example, if your server serving the website is in Mumbai, then AppTrana will ensure that it is onboarded in Mumbai Region. Once onboarded customer will be asked to make a DNS change and route traffic through AppTrana. This would mean all traffic to your backend server goes through AppTrana, therefore protecting you from malicious traffic. Now, when CDN is enabled from the AppTrana portal, configuration is changed to ensure traffic first hits CDN and only when request is for uncached data would traffic reach the backend server in which case it would go through AppTrana. This way, we ensure that traffic that can be served by CDN is served quickly from the nearest CDN POP to the user and when traffic has to be directed to the server, it goes through AppTrana and it is protected against malicious traffic/attacks.

1. Traffic from web will go to TATA CDN. TATA CDN will server the data it has cached.
2. If it needs to pass the traffic to origin server, then request will be forwarded to WAF.
3. Indusface WAF will inspect and forward to origin server
4. Indusface WAF will become the origin server for TATA CDN



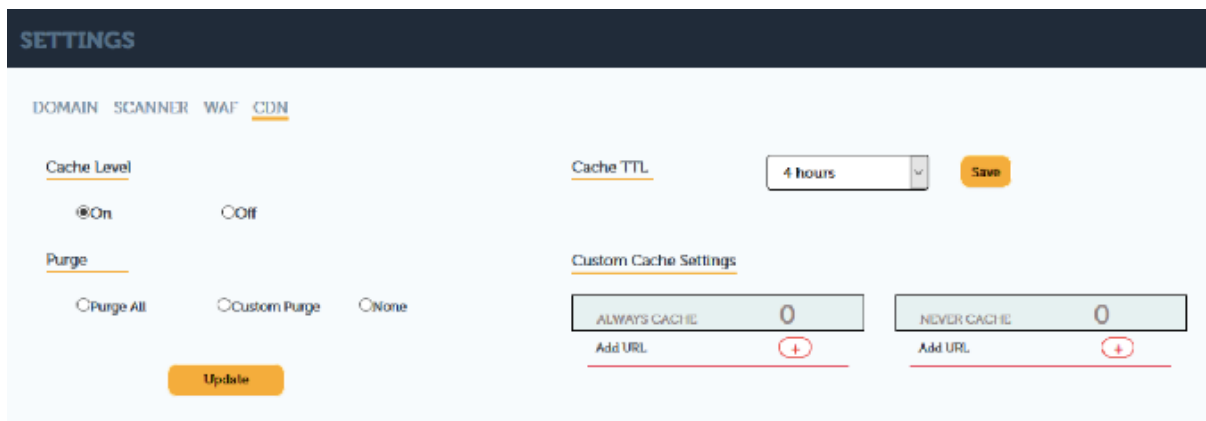
We ensure that both http and https traffic are served through CDN and for this reason, the SSL certificate provided to AppTrana or generated by AppTrana as part of onboarding is shared with TATA CDN in a secure manner. All communication between TATA CDN , Indusface WAF and backend server happens over encrypted channel in case of https traffic.

CACHE SETTINGS

As with any CDN, the most common choice is to cache static objects which do not change much. Eg: Images, JavaScript, CSS files, PDF files, Media files. As part of the default config, CDN will be caching the following extensions:

Jpeg, jpg, png, gif, ttf, woff, woff2, swf, doc, mp3, mp4, mov, wav, flv, js, css.

The default caching period is 24 hrs. One can change the default caching period from the portal.



The screenshot shows the 'SETTINGS' page for a CDN. It has tabs for 'DOMAIN', 'SCANNER', 'WAF', and 'CDN'. Under 'Cache Level', there are radio buttons for 'On' (selected) and 'Off'. Under 'Cache TTL', there is a dropdown menu set to '4 hours' and a 'Save' button. Under 'Purge', there are radio buttons for 'Purge All', 'Custom Purge', and 'None'. An 'Update' button is located below the 'Purge' options. Under 'Custom Cache Settings', there are two sections: 'ALWAYS CACHE' with a count of '0' and an 'Add URL' button with a red '+' icon; and 'NEVER CACHE' with a count of '0' and an 'Add URL' button with a red '+' icon.

You can purge the cached content from the settings page. There are 2 options:

Purge All – In this case all the cached content will be purged and new data will be cached. This should be done with caution, as purging all will involve heavy load and may cause degradation of service.

Custom Purge – In this case, customer can purge a particular URI or content type. It is recommended to use this option where ever possible.

Apart from this, customers can have advance settings enabled like dynamic content caching, geo redirections and rewrites. Please contact Indusface support (support@indusface.com) to enable these settings.

ABOUT INDUSFACE

Indusface is a leading application security SaaS company which secures critical Web, Mobile & API applications of 2000+ global customers using it's award winning fully managed platform that integrates web application scanner, web application firewall, DDoS, BOT Mitigation, CDN and threat intelligence engine.

The company has been funded by Tata Capital Growth Fund, is Great Place to Work certified, mentioned by analysts like Gartner, Forrester etc in their reports and has been the recipient of many awards such as the Economic Times Top 25, Nasscom DSCI Top Security Company, Deloitte Asia Top 100 and several other such prestigious recognition.