

The instant global CDN for hosters

OnApp CDN is a revolutionary approach to CDN for hosting providers. Now any host can build an advanced CDN without investing in global CDN infrastructure. OnApp CDN has very low set-up and running costs, and gives you instant access to dozens of CDN Points of Presence around the world.

Build your own CDN

Use OnApp CDN software to build your own CDN PoPs. OnApp CDN includes an advanced CDN edge server and a global DNS redirection service for your CDN, hosted by OnApp.

Scale your CDN

Scale your CDN on demand. OnApp CDN includes access to the OnApp CDN Federation, where you can buy bandwidth from other hosts and get instant access to dozens of PoPs around the world.

Sell CDN bandwidth

Turn spare cloud capacity into cash. The OnApp CDN Federation includes a marketplace where you can sell CDN bandwidth to other hosts. Set your own prices and receive regular payments for bandwidth sold. The whole process is managed by OnApp.

OnApp CDN components

OnApp CDN combines software and services from OnApp and Aflexi, which recently joined the OnApp family. It has three main components: an advanced CDN edge server appliance (CDN Stack), a hosted DNS redirection service for CDN (CDNaaS) and a CDN marketplace that lets hosts buy and sell CDN bandwidth (the CDN Federation).

OnApp CDN Stack

OnApp CDN Stack is an advanced CDN edge server appliance that is managed by an OnApp Controller server. You can set up the edge server appliance as an integrated part of an OnApp Cloud installation, or deploy an OnApp Controller plus one or more physical edge servers as a standalone CDN resource. The edge server software is free of charge to hosts using OnApp CDN.

Supported protocols/objects

- > HTTP delivery:
 - HTTP pull - Nginx (ncache) for pseudo streaming of small & large files
 - HTTP push

Standalone edge server deployment

The CDN Stack is deployed as a standalone edge server appliance. It requires one OnApp Controller server, which handles CDN management and the UI, and one or more physical edge server devices with associated storage.

OnApp Cloud integration

OnApp CDN integrates fully with OnApp Cloud. You can use spare hypervisor/SAN capacity for your CDN, and deploy the OnApp edge server appliance in just a few clicks.

- > Full integration of OnApp CDN with OnApp Cloud billing and other management subsystems
- > Easy CDN management through the OnApp Control Panel
 - Create edge groups containing specific edge servers
 - Assign edge groups to billing groups, so edge resources have their own pricing

Requirements

- > OnApp Controller server:
 - Dual or Quad Core 2Ghz+ CPU
 - 4GB+ RAM
 - 100GB RAID 1
 - 2x Gig network interface cards
- > Edge servers:
 - Quad core 2GHZ+
 - 8GB+ RAM
 - 30GB HDD (SSD recommended)
- > SAN - any block storage, SSD recommended

OnApp CDNaaS

OnApp CDNaaS (CDN as a Service) is a global hosted Anycast DNS service for OnApp CDN. Hosted by OnApp at 14 global datacenters, it integrates automatically with OnApp CDN Stack deployments and redirects content requests from end users to the most suitable edge server.

End user content requests are processed by the CDNaaS decision engine, which:

- > Performs DNS lookups and queries a geolocation database to establish the user's location
- > Combines user location information with the status and location of CDN edge resources, in order to identify the most suitable edge servers to deliver content
- > Instructs the most suitable edge servers to begin content delivery

Hosts pay a low fee per Terabyte for traffic routed through this CDN core.

CDN Federation

The OnApp CDN Federation is a global network of CDN PoPs, and a marketplace where you can buy and sell CDN capacity on demand.

By joining the CDN Federation, hosts can buy CDN bandwidth from other Federation members and resell it to end users. With CDN PoPs around the world, it's an easy way to build a global CDN service without the overhead of building and maintaining global infrastructure.

Federation members can also set prices for their own CDN bandwidth and offer it to other members. OnApp manages all transactions between hosts, making the CDN Federation an effortless way to build global CDN capability and monetize spare capacity.

Easy-to-use marketplace UI

- > Browse Federation PoPs with a simple view of prices per GB, location, bandwidth and server specs available
- > Add Federation PoPs to your own CDN with a couple of clicks
- > Set prices for your own CDN resources and add them to the marketplace

Transparent transaction model

OnApp acts as the intermediary between Federation members to make the process as simple as possible.

- > To join the CDN Federation you deposit a small amount in your OnApp CDN account, which is used to purchase CDN bandwidth from other Federation members
- > Revenue from sales of bandwidth you make to other Federation members is also stored in your account
- > Each month OnApp issues payments for any positive balance above your initial deposit
- > Hosts pay a small percentage fee for marketplace transactions

API and integrations

OnApp CDN has a full API for integration with 3rd party systems.

- > RESTful JSON and XML API
- > Basic HTTP authentication for calls

For a demo and more information:

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