

# SugarBox App Partner CDN Console

## SugarBox Content Distribution Network (CDN) - Overview

Offer your customers an improved user experience by making your application run faster and smoother using SugarBox's content distribution network (CDN) service. SugarBox's worldwide network of computing and caching servers, also known as Edge servers - decentralizes the processing and storage of your content by caching the content at various locations around the world.

By distributing the storage of your content across the globe, SugarBox reduces the number of networks that a packet of data must pass through back and forth between the user of your application and the server. The SugarBox Edge server located closest to the person using your application - serves the content instead of your Origin server. Consequently, data is delivered faster, and your customers experience high-speed digital experience or low latency. It appears to your users that their Internet speed is super-fast, while it is only the content of your app that they enjoy at such high speed.

## SugarBox App Partner CDN Console - Overview

Using the SugarBox App Partner CDN Console, set cache duration and configure cache policies for your content. The SugarBox CDN provides you deep micro-level control over your content regarding cache policy settings.

Start by creating a content distribution site—specifying your Origin server and defining how SugarBox tracks the arrival of new content and manages its ingestion. Your Origin is the server where you store the original version of your files (also called objects). An Origin server can be an HTTP server, a MediaPackage channel, or a cloud object storage. Using the SugarBox App Partner CDN console - you can update, enable, disable, or delete an existing content distribution site besides creating a new one.

## CDN workflow

If you are delivering your content with SugarBox, the following is the workflow when an end-user uses your app or website.

1. A user browses your application and clicks an item for its details.
2. DNS redirects the request to the SugarBox Edge server located closest to that user.
3. That SugarBox Edge checks its cache for the requested files.
  - If the files are present in the cache, SugarBox delivers them to the user. If not, SugarBox:
    - a. Assesses the request against the specifications configured in your content distribution site and forwards the request to your origin server.
    - b. The origin server responds with the appropriate files.
    - c. As soon as the first byte arrives, the SugarBox Edge begins to forward the files to your end user. SugarBox also caches the files (stores files for a specified duration) in the Edge location to serve any repeat requests for the same content from the same location—arising within a specified time gap from each other—faster.

## Getting started with using SugarBox CDN

You get into a contract with SugarBox to start delivering your content through SugarBox CDN. Upon onboarding, you receive the login credentials for accessing the SugarBox App Partner CDN console. Using the console, you set up a content distribution policy, and then use the SugarBox domain name in URLs for your Web pages or applications to reference your content.

### To access the SugarBox App Partner CDN console

1. Open the SugarBox CDN console at <https://cdn-console.stg.sboxdc.com/loginaccess>.
2. Enter the Username and Password that you received upon onboarding to sign in.  
**Note:** We recommend that you set a new username and password after you first sign in.

With the SugarBox App Partner CDN console, you can

- Create a new SugarBox content distribution site
- Work on an existing SugarBox content distribution site
  - Edit
  - Enable
  - Disable
  - View
  - Delete

**Note:** To know how to work with an existing SugarBox content distribution site, see [Editing](#), [Enabling](#), [Disabling](#) a SugarBox content distribution site.

## Creating a SugarBox content distribution site

Create a SugarBox content distribution site to specify to SugarBox the following:

- Source (origin server URL) - the location to retrieve your files from (also called objects)
- Security — whether you want SugarBox to require users to use HTTPS to access your content
- Cache duration - the number of seconds SugarBox caches your objects at edge locations
- Cache key — the values, if any, you want to include in the cache key.  
The cache key uniquely identifies each file in the cache for a given distribution
- Request settings — whether you want SugarBox to retain HTTP headers, cookies, or query strings in requests that it sends to your Origin
- (Optionally) CNAME Record - whether you want an alternate domain name

### To create a SugarBox content distribution site

1. On the **Home** page, click the **CREATE SITE** tab.
2. On the **CREATE SITE** page, specify the details of your Origin server, so the SugarBox CDN can forward incoming requests from your end users to it.
3. Tell SugarBox whether to use HTTP or HTTPS to access your Origin. Also, mandate the various specifics pertaining to SugarBox attempting to connect to your origin server, like the maximum number of attempts to make to connect to your origin, the maximum number of seconds to wait for a response from your origin, and other such parameters (see [origin server and connection policies](#)).

**Optionally**, using the **Origin path**, specify a directory location on your Origin, if you want SugarBox to always forward requests from your end users to a particular directory. You can

configure custom headers to gather certain information about every end-user request (see [Custom headers](#)).

4. In the **Default Segment Configuration** section, configure a set of policies pertaining to cache and other related behaviors (see the bullet points below for a detailed description of every parameter).

These policies apply to all objects irrespective of the segment of your offering that they may belong to—that is—in case you have segmentized your offerings.

**Note:** By default, SugarBox applies policies to all objects (all objects remain selected in **Path Pattern**, by default).

**Info:** You may want SugarBox to treat objects belonging to separate segments of your offerings in separate ways with respect to cache and other related behaviors; for example, if you run an OTT app, you may want to apply a separate set of cache-behavior policies to recently released movies than ones configured for old movies. For doing so, you still need to create a new content distribution site, first. After that, create separate segments, and then configure their respective cache behavior policies one at a time inside the content distribution site. In the example cited here, you may want to create two segments, namely Old Movies and Recently Released Movies. To know how to create segments and build their discrete set of policies, see [Setting up segment configuration details](#).

- **Path Pattern** - When you build a new content distribution site, the Path Pattern value is not editable. SugarBox—by default—treats all your objects in the same way with respect to cache and other related behaviors regardless of the segment of your offering that they might belong to (if your offerings are segmentized).

To know how to create separate segments and build their discrete set of policies, see [Setting up segment configuration details](#).

- **Compress Objects automatically** - Select the compression type the SugarBox CDN uses to deliver cached files to your app or Web site.

**Info:** When requested objects are compressed, downloads can be faster because the objects are lighter, so your Web pages render faster for your users.

For more information, see [Setting up segment configuration details](#).

- **Viewer Protocol Policy** - Select the protocol policy you require your end users to use for accessing your content at SugarBox Edge locations.

For more information, see [Setting up segment configuration details](#).

- **Allowed HTTP Methods** - Specify the types of requests (HTTP methods) you want SugarBox to process and forward to your Origin.

For more information, see [Setting up segment configuration details](#).

- **Cache Configurations** - Create a new cache policy or select an existing one to drive the cache behavior.

SugarBox applies the policy that you create or select to all cached objects.

**Info:** If you want to customize the settings for cache behavior and exercise more control over how your content is cached for certain segments of your offering, then after you create a new content distribution site, configure additional cache behavior policies. These policies then drive how SugarBox treats objects of specific segments when it receives requests for objects matching a specified path pattern (an example of a path pattern can be, say, .jpg).

Build the following cache configurations:

- **Cache Policy** - Create a new Cache Policy or select an existing one to indicate how long you want SugarBox to cache your objects. Also, specify the various cache key settings.  
See [Cache key settings](#) to know more. To know how to create a new cache policy for your segment offering, see [Creating new cache policy](#).
  - **Origin Request Policy** - Create a new Origin Request Policy or select an existing one to specify whether you want SugarBox to retain any of the HTTP headers, query parameters, or cookies that you have configured to be included in end-user requests (in Cache Key Settings).  
To know how to create a new origin request policy, see [Setting up origin request policy](#).
5. **Settings** - Modify the default settings that apply to the entire content distribution site, like creating CNAME and selecting the HTTP version that you support.  
For more information, see [Settings](#).
  6. Click the **CREATE SITE** button to save the content distribution site you created.
  7. After you create your content distribution site, enable it to start processing live requests.  
To know how to enable a content distribution site, see [Enabling an existing SugarBox content distribution site](#).