

Enable the Content Security Policy (CSP)

On this page:

- [Directives Required for CSP](#)
- [script-src](#)
- [connect-src](#)
- [child-src](#)
- [frame-ancestors](#)
- [img-src](#)
- [Example Content-Security-Policy Header](#)

This page shows you how to make configurations to enable CSP, so your application is compatible with Browser RUM.

Directives Required for CSP

To enable CSP for instrumented applications, you add the following required directives in the `Content-Security-Policy` header:

- `script-src`
- `connect-src`

In certain cases, you are also required to use the following directives:

- `child-src`
- `frame-ancestors`
- `img-src`

script-src

The `script-src` directive specifies the location of `adrum-ext.js`. By default, `adrum-ext.js` is loaded from our content delivery network (CDN) at `cdn.appdynamics.com`. The example below shows how you might use the `script-src` directive.

```
script-src cdn.appdynamics.com;
```

To measure first-byte time accurately, we ask customers to include the following line at the top of pages:

```
window["adrum-start-time"] = new Date().getTime();
```

For this line to be read, you also need to set the `script-src` directive to 'unsafe-inline' as shown here:

```
script-src 'unsafe-inline';
```

connect-src

The `connect-src` directive specifies the location where beacons are sent. If you are using the SaaS-based EUM, you might use something like the following:

```
connect-src col.eum-appdynamics.com;
```

If you are using on-prem EUM, you would have `connect-src` point to your EUM Server.

child-src

For cross-domain sessions, we load `adrum-xd.html` into an `iframe`. By default, this is loaded from our CDN, so you need to have `child-src` specify a CDN as shown below.

```
child-src cdn.appdynamics.com;
```

frame-ancestors

If `adrum-xd.html` is hosted locally, you would use the `frame-ancestors` directives in the following way:

```
frame-ancestors /path/to/adrum-xd.html;
```

img-src

In older browsers, we send our beacons as image beacons. Although older browsers don't support CSP, you can configure the JavaScript Agent to always send image beacons. You do this using `img-src` directive to specify the beacon location as shown in the example below.

```
img-src col.eum-appdynamics.com;
```

Example Content-Security-Policy Header

The following `Content-Security-Policy` header loads the `adrum` files from our CDN and then sends beacons to our SaaS-based EUM.

```
Content-Security-Policy: connect-src 'self' col.eum-appdynamics.com;  
script-src 'unsafe-inline' cdn.appdynamics.com; img-src  
cdn.appdynamics.com; child-src cdn.appdynamics.com
```