

Webinar Schedule

May 18 - UX Component Watch Events

May 25 - Panels, Layouts, and Navigation

June 1 - Ship it! Deploying your App on Alpha Cloud

June 8 - Mobile Deployment with Alpha Launch

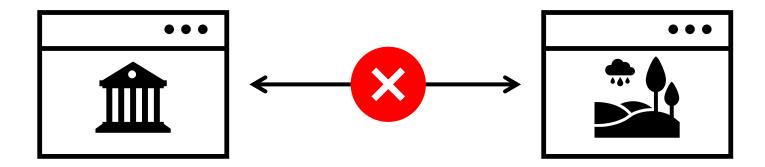


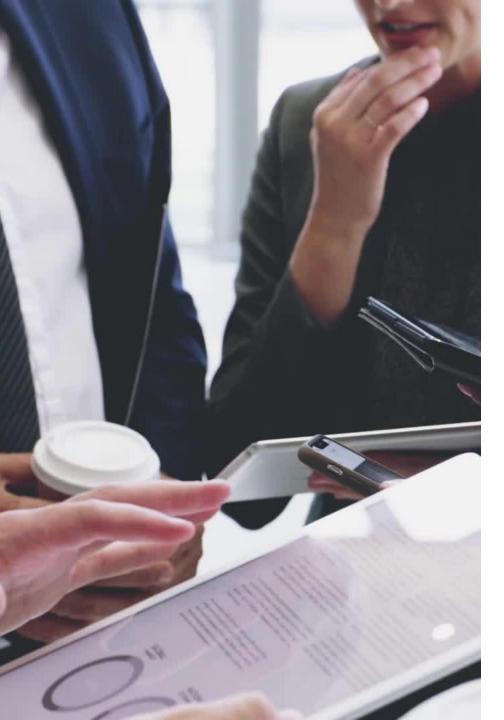


Access to XMLHttpRequest at 'http://localhost:5000/global_config' step1:1 from origin 'http://localhost:8080' has been blocked by CORS policy: Response to preflight request doesn't pass access control check: No 'Access-Control-Allow-Origin' header is present on the requested resource.

Same-Origin Policy

Rule enforced by web browsers to control access to data between web applications





Same-Origin Policy

Prevents reading data between web applications

Access to data is based on the origin

If origins do not match, access is denied

What is an Origin

An origin is composed of three parts:

- The Protocol
- The Domain
- The Port



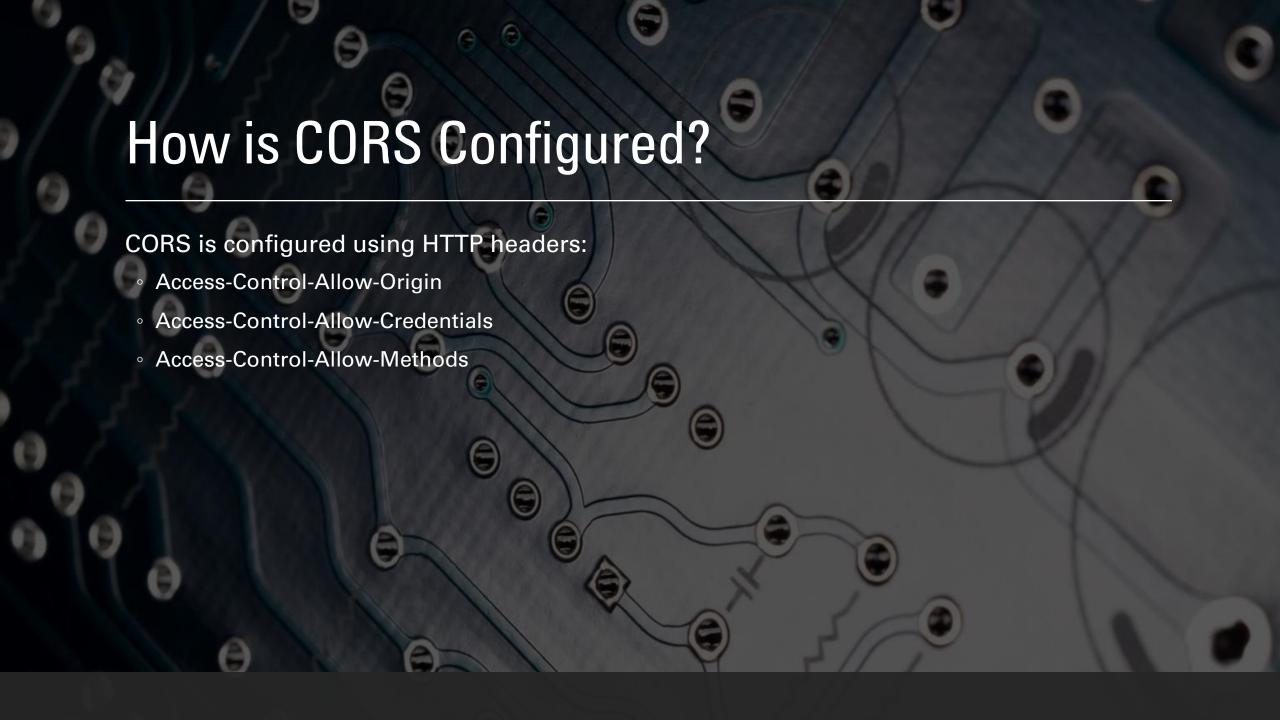
CORS

Cross Origin Resource Sharing (CORS)

A method using HTTP headers to specify origins that are allowed to access resources







Access-Control-Allow-Origin

Defines what origins have permission to access the resource

Specifying origins:

Access-Control-Allow-Origin: *

Access-Control-Allow-Origin: <origin>

Access-Control-Allow-Origin: null

Access-Control-Allow-Credentials

Allows cookies to be included in cross-origin requests

Can only be used with Access-Control-Allow-Origin: control-Allow-Origin: null

Specifying credentials:

Access-Control-Allow-Credentials: true





Access-Control-Allow-Methods

Restrict allowed methods

Common methods: POST, GET, PUT, PATCH, DELETE, OPTIONS

Specifying Methods:

Access-Control-Allow-Methods: POST, GET, OPTIONS

Access-Control-Allow-Methods: *



SameSite Cookies

Controls whether or not a cookie is sent with a request to a third-party site

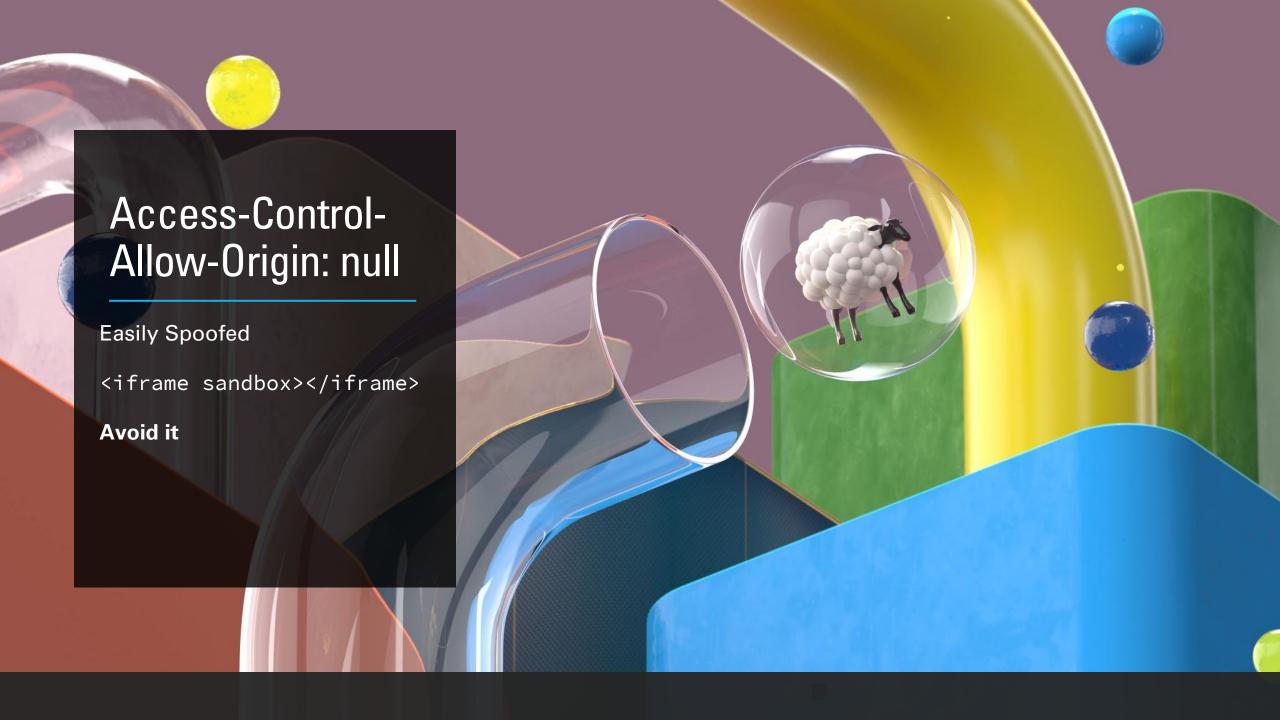


Dynamic Access-Control-Allow-Origin

Using code to dynamically populate Access-Control-Allow-Origin

Matching using a Regex

- Starts with "www.mydomain"
- Ends with "mydomain.com"



Access-Control-Allow-Origin: *\ on Internal Networks

JetBrains IDE Remote Code Execution and Local File Disclosure - Jordan Milne

A malicious website could gain access to the JetBrains' IDE and perform remote code execution.

Affected IDEs including PyCharm, Android Studio, WebStorm, IntelliJ IDEA, etc.

Access-Control-Allow-Origin was configured to allow *

CORS Best Practices

Ensure	Ensure Proper Configuration
Use	Use a Whitelist to restrict access to trusted sites
Avoid	Avoid using Access-Control-Allow-Origin: null
Avoid	Avoid using Access-Control-Allow-Origin: * on Internal Networks

Resources

Cross-Origin Resource Sharing (CORS) | Complete Guide

Rana Khalil

https://www.youtube.com/watch?v=t5FBwq-kudw

Live Demo

CONFIGURING CORS FOR A WEB SERVICE IN ALPHA ANYWHERE

