Architecture of hosting ParlAI staic Website

Diagram Overview

Indeed the website we need to deploy is Static. Static sites have consist of HTML, CSS, and some scripts that are delivered directly to the user's browser. There is no computation involved in creating the page that will be transmitted to the user, and there is no database that needs to be queried to generate the page. Generally, to host static website we need somewhere to host the files so we will need some sort of repository to store information. There are quite a few services out there that allow to host the website statically. The one currently use to host here is S3 bucket from Amazon web services. Since we will not use a domain name here we will use at least CloudFront to provide a presentable domain name and increase the performance of the website.

Components Description

Amazon Simple Storage Service (Amazon S3) can host static websites without a need for a web server. The website is highly performant and scalable at a fraction of the cost of a traditional web server. Amazon S3 is storage for the cloud, providing you with secure, durable, highly scalable object storage. A simple web services interface allows you to store and retrieve any amount of data from anywhere on the web. After the files are uploaded, Amazon S3 takes care of serving the content to the visitors.

CloudFront is a Content Delivery Network(CDN) service also provided by AWS, it enables users to deliver content globally with low latency, high data transfer speed, and securely delivered. leveraging AWS edge locations around the world to cache and deliver content from the nearest location to the user, reducing latency and improving performance. It also offers features such as SSL/TLS encryption, access controls, and real-time metrics.