P2PBazzar Research & Development

AWS S3 Upload and Download of Files

Introduction:

Document can be stored and retrieved from Amazon AWS S3 (Simple Storage Service) in many ways. This document shows the use of JavaScript Node js based process to enable that objective.

Nodejs is chosen because of its versatility of being the backend (server or cloud node based) processing power as well as being embedded in the WebApp HTML pages. The HTML page can also interact with Smart Contract using Ethereum backbone. Effectively, this module can be a bridge between smart contracts and documents being saves in S3.

For questions and/or explanation … please reach out to Jit at Sarbojit.project@gmail.com

Basic setup:

The premise of the setup is two folds. The JavaScript can be executed via node or can be embedded in the JavaScript in HTML.

For node js environment (command line)
Start with …
>> npm install aws-sdk

Assumption: You have already installed npm and node in your machine. If not … please
https://www.npmjs.com/ and https://nodejs.org/en/download/

AWS-SDK in the JavaScript
<script src="https://sdk.amazonaws.com/js/aws-sdk-2.20.0.min.js"></script>

Download the repository in your local drive, unzip it and make it your project directory.

JavaScripts:

There are twoJavaScripts … one for uploading files in S3 in a bucket name P2PBazzar.Sandbox and another to download from the S3 to you local machine.

S3DemoUpload.js

This is a POC with few content types covers such as plain-text, pdf, jpg, png, json etc. There are many others that are not covered in this minimalistic example. Appropriate content types should be included based on the business functionalities.

From command line do the following:

>> node S3DemoUpload.js

Upon execution ... This would show you the various nature of the usage (parameters expected) etc.

S3DemoDownload:

This is for downloading files from the S3 to your machine.

>> node S3DemoDownload.js

Will give the file download process.

Note:
1. This is good for demo and POC.
2. Diverse kinds of error handling needs to happen before it is used in the market place.