Setting up Amazon S3/Cognito for Audio Upload

S3

Important: Make sure throughout that you are in the correct region (for all differenct services!)

Create a bucket

Choose Region: US East (N. Virginia). For some reason the EU server doesn't work at the moment.

On Configure Options, click Next (leave defaults).

Set Permissions: leave default.

Review: Create Bucket.

Check permissions and paste this CORS policy:

```
<CORSConfiguration xmlns="http://s3.amazonaws.com/doc/2006-03-01/">
<CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>GET</AllowedMethod>
    <AllowedMethod>POST</AllowedMethod>
    <AllowedMethod>PUT</AllowedMethod>
    <AllowedMethod>DELETE</AllowedMethod>
    <AllowedMethod>HEAD</AllowedMethod>
    <MaxAgeSeconds>3000</MaxAgeSeconds>
    <ExposeHeader>ETag</ExposeHeader>
    <ExposeHeader>x-amz-meta-custom-header</ExposeHeader>
    <AllowedHeader>*</AllowedHeader>

</CORSRule>
</CORSConfiguration>
```

Save

Cognito

Click Manage User Pools => Create new user pool

Give Name

Click Review Defaults

Click Add App Client

Add App Client Name

Uncheck Generate client secret

Update Token Expire to a e.g 3065 (?)

Click add app client

Now this is added. You need to copy this App Client ID.

Click Federated Identities (top left)

Click create new identity pool

Give Identity pool name

Check Enable access to unauthenticated identities

Under Authentication Providers Tab:

Paste User Pool ID and App client ID from earlier

On next page, "Identify the IAM roles to use with your new identity pool":

Click Show details

Create a new IAM role for an authorised *and* an unauthorised identity

On the next page, copy the identity pool id e.g `us-east-1:c74a7565-ecd3-4abb-9dba-3d02b483e795`

Open the IAM service

Click Roles in the left sidebar

Open auth an unauth identities made earlier in separate tabs then do these steps for each:

Click attach policies

Click create **INLINE** policy

Click the JSON tab.

Paste this in, but change the bucket name to your bucket name e.g `arn:aws:s3:::melody-singing-task/*`

```
{
        "Version": "2012-10-17",
        "Statement": [
            {
                "Effect": "Allow",
                "Action": [
                    "s3:PutObject",
                    "s3:GetObject",
                    "s3:ListMultipartUploadParts",
                    "s3:ListBucketMultipartUploads"
                ],
                "Resource": "arn:aws:s3:::S3_BUCKET_NAME/*"
            }
        ]
    }
```

Click add policy

Give name then click create policy

Update HTML with the bucket ID and location ID. No need to change the "folder" bit or add this to S3 manually, it is done automatically.