How to setup and Run the Job Manager Server

1. Obtain Free Tier AWS Windows Instance
   1. Instance Details
      1. Instance Type: t2.micro
      2. Availability zone: Same as the Batch Script
      3. Make sure you have both a public and private IP address
2. Obtain Free Tier MSSQL Server RDS Instance from AWS
   1. Instance Details
      1. Instance class: db.t2.micro
      2. Engine: SQL Server Express Edition 13.00.4422.0.v1
      3. Make sure to select all free tier options
   2. Create Job Information DB
      1. DB Name: Job\_DB
      2. Table Name: JobInformation
      3. Columns
         1. jobID
            1. Integer
            2. Primary Key
            3. Auto Incremented
         2. word1
            1. NVARCHAR
         3. word2
            1. NVARCHAR
         4. dateCreated
            1. DATETIME
            2. Set to auto populate on insert
         5. lastUpdated
            1. DATETIME
            2. Set to auto populate on insert
         6. jobStatus
            1. NVARCHAR
      4. Table Name: s3ID
      5. Columns
         1. jobID
            1. INT
         2. s3ID
            1. NVARCHAR(50)
3. Install IIS Windows Web Server
   1. Follow the steps on <http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/install-WIMP.html> in order to install the web server
4. Install python libraries
   1. BOTO3 (For communication with AWS Batch)
   2. Pymssql (For communication with MSSQL)
5. Update Python script with new DB information and new Batch information
6. To run application run “python rest.py {private IP of server}”