**S3:  
reference lecture** <https://www.youtube.com/watch?v=ASuU4km3VHE>

1. Login to account then click on Services at left corner.
2. then click on S3 which are placed in storage.
3. Then click on create button
4. Fill the first form compulsory 3 others are optional
5. We need important information security credentials  
   for this we perform these steps
   1. Click on profile name
   2. Then click on my security credentials
   3. Then click on continue to security credentials .
   4. Then click on Access Keys
   5. Then click on create new access key.
   6. Then click on show access key and copy and save key id and secret or download file.
6. Got to editor and install npm install --save multer-s3  
   use this link <https://www.npmjs.com/package/multer-s3>  
   npm install aws-sdk  
   use this link <https://www.npmjs.com/package/aws-sdk>  
   npm install --save multer  
   use this <https://www.npmjs.com/package/multer>
7. Copy and past code from <https://www.npmjs.com/package/multer-s3>
8. const aws = require('aws-sdk')
9. const multer = require('multer')
10. const multerS3 = require('multer-s3')
11. aws.config.update({
12. secretAccessKey:'IPd7rzil8AZmlSuHUOax+eZ+G5G8psR48sQtbXRX',
13. accessKeyId:'AKIAI6TWBWNPP53UYJJA',
14. region:'us-east-2'
15. })
16. const s3 = new aws.S3({ /\* ... \*/ })
18. const upload = multer({
19. storage: multerS3({
20. s3: s3,
21. bucket: 'saloon-bucket1',
22. metadata: function (req, file, cb) {
23. console.log(file)
24. cb(null, {fieldName: 'TESTING\_METADTA'});
25. },
26. key: function (req, file, cb) {
27. cb(null, `${file.fieldname}${Date.now()}${file.originalname}`)
28. }
29. })
30. })
31. app.post('/upload', upload.array('photos', 3), function(req, res, next) {
32. console.log(req.files[0].originalname)
33. res.send('Successfully uploaded ' + req.files.length + ' files!')
34. })

**DRS:** <https://www.youtube.com/watch?v=TW4ENi_CGoM>  
<https://www.youtube.com/watch?v=0GpQJM7w6M8>  
  
  
first click on RDS then launch instance and then fill form choose databse name master name password etc.   
after creating database at AWS go to local create dbserver and connect this with AWS using AWS username database name and password. Create new database this will be used  
In rds must add security groups  
Security groups are important to access RDS

**EC2**

<https://www.youtube.com/watch?v=tasoWTGM1hA&ab_channel=SelfTuts>  
create and connect ec2:  
<https://www.youtube.com/watch?v=IX82eeuCPIg&t=342s&ab_channel=TuanNguyenVan>  
1- create insctance  
2- download pem file while creating instance  
3- go to file where pem placed  
4- on aws click on connect and then click on SSH and follow this  
 or   
3- run this comman → chmod 400 filename.pem  
4- then run this → ssh -i "saloonAwsKeyPair.pem" ubuntu@ec2-3-21-165-12.us-east-2.compute.amazonaws.com

-- you can edit any file by vim (<https://phoenixnap.com/kb/how-to-vim-save-quit-exit>)  
– run server permanently by mp2 or forever   
pm2 → <https://www.npmjs.com/package/pm2>  
forever → suno npm install forever -g https://www.npmjs.com/package/forever