**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 database and connect this with AWS using AWS username database name and password.

**EC2**<https://www.youtube.com/watch?v=Ce876F9soxA&t=328s&ab_channel=ITLearningTechTube>  
<https://www.youtube.com/watch?v=tasoWTGM1hA&ab_channel=SelfTuts>

Connect ec2 with local and deploy code:  
https://www.youtube.com/watch?v=IX82eeuCPIg&t=388s&ab\_channel=TuanNguyenVan  
  
click on connect and get public DNS and username  
1-chamod 400 proj.pem //  
2-ssh -I proj.pem username@dns  
 ie. ssh -I proj.pem [ubuntu@pron.amazom.com](mailto:ubuntu@pron.amazom.com)  
 by command you will enter into server  
3-now create directory // mkdir dir\_name   
 and clone their code from github into into this directory.   
4-run this command for update your server // sudo apt-get update  
5-sudo apt-get install npm // it will install npm  
6- npm install // it will install all dependencies  
7- sudo apt-get install nodejs-legacy