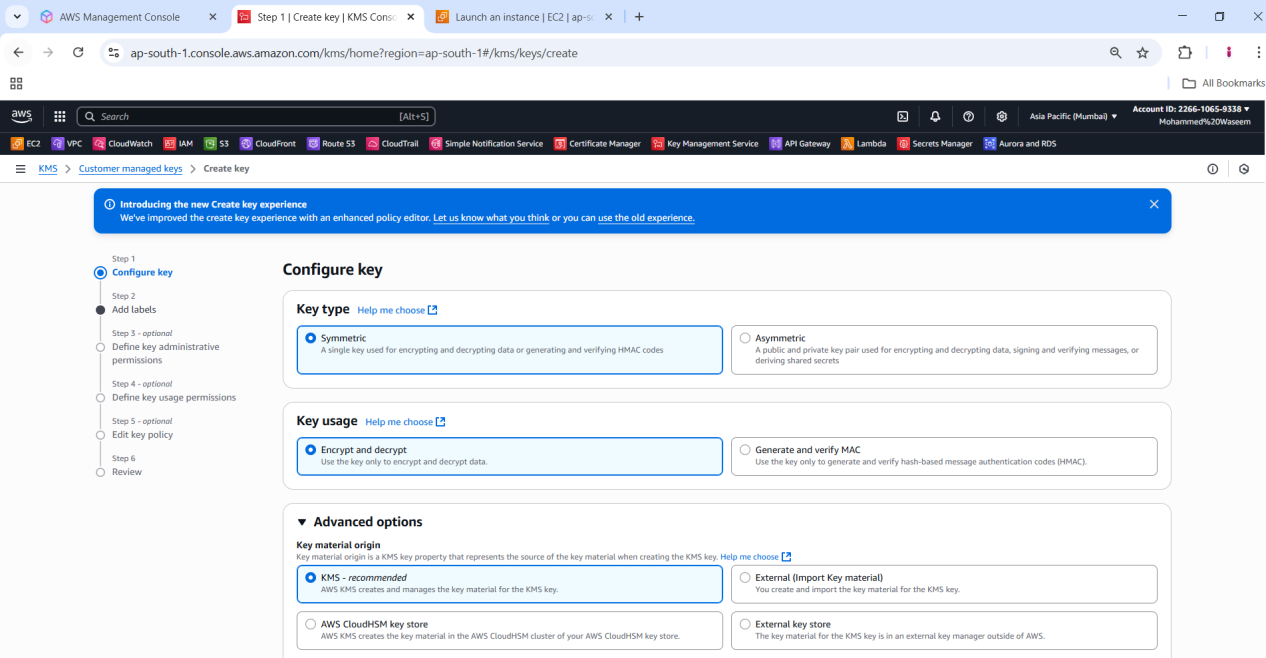
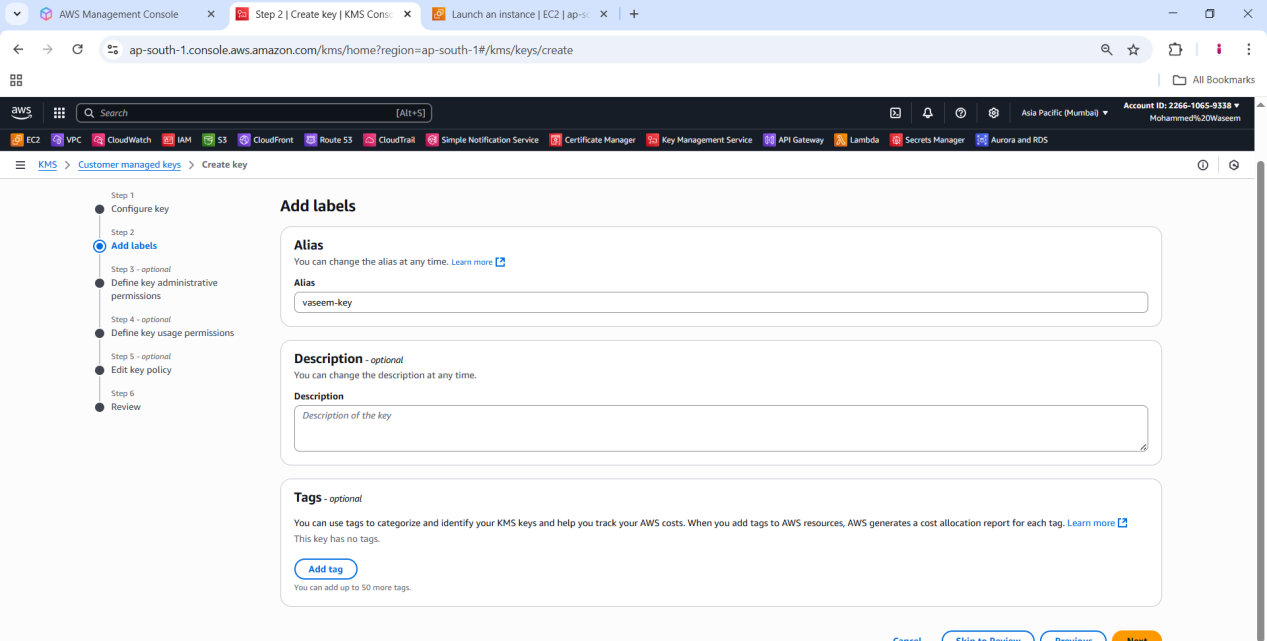
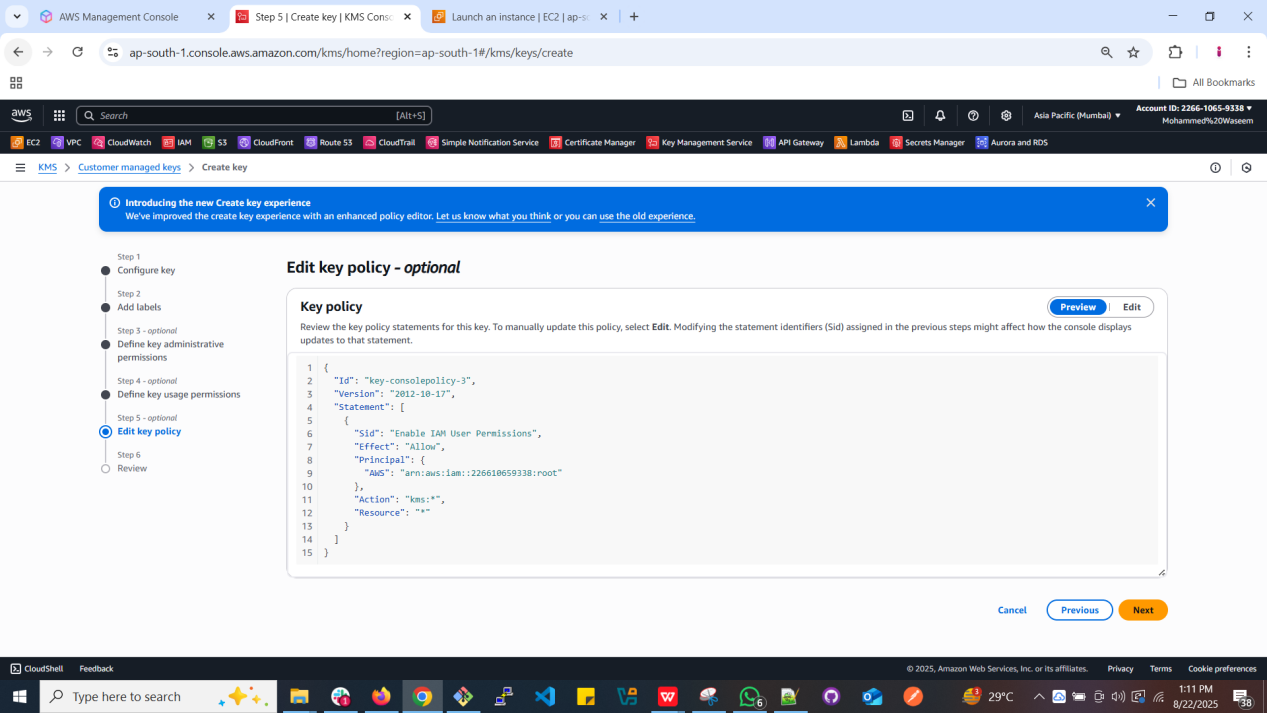
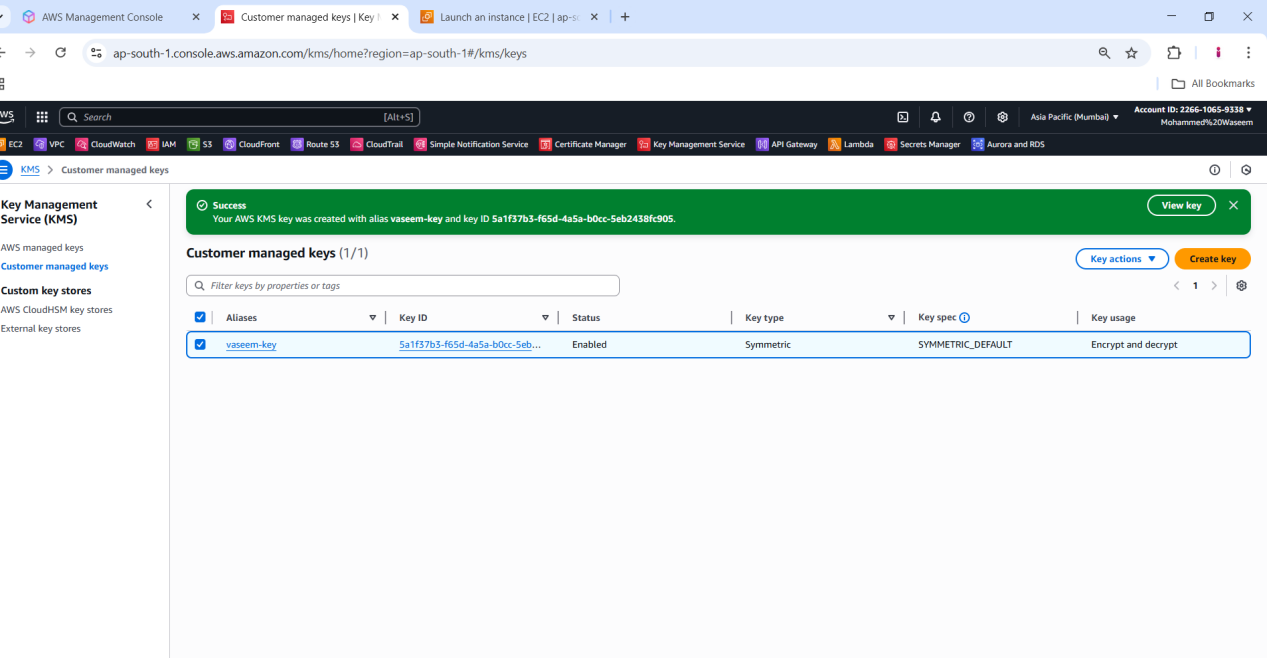
1. **Created a KMS key “vaseem-key”**



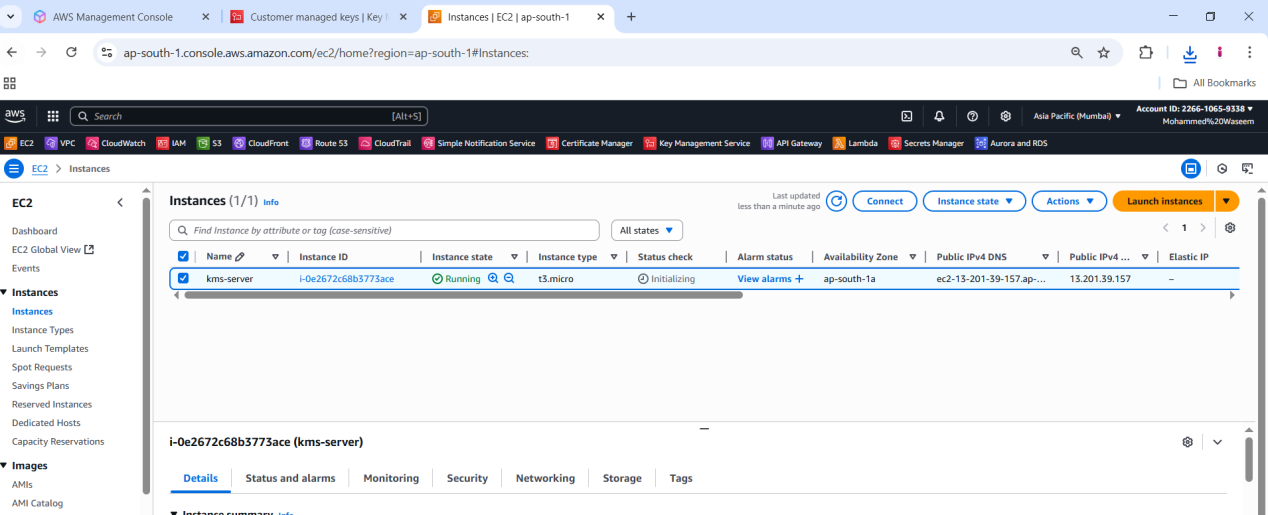


1. **Here is the key policy of IAM permission**





1. **Here we have launched a intance to configure the key**



Here is keys:

"CiphertextBlob": "AQIDAHgsbS/G5bQoil6FsEnfu3KZABQKa0OP41cQz1E+Onm4CgGxDBDPHrxmsVaqxNNSVNoAAAAAfjB8BgkqhkiG9w0BBwagbzBtAgEAMGgGCSqGSIb3DQEHATAeBglghkgBZQMEAS4wEQQMwnixOifgWrQcBf8rAgEQgDtuLH0zdfj8cXXCoXe5DwwlEmhMlaRCZPcMWOe6mKmf+UbCT/GeH7oC2PB+fciWE2Y1qnPLM3Z6a3lWFg==",

"Plaintext": "C9hAjuAGEyfK+p7AGGbDUz25svWuWbybhV+Z690PvBg=",

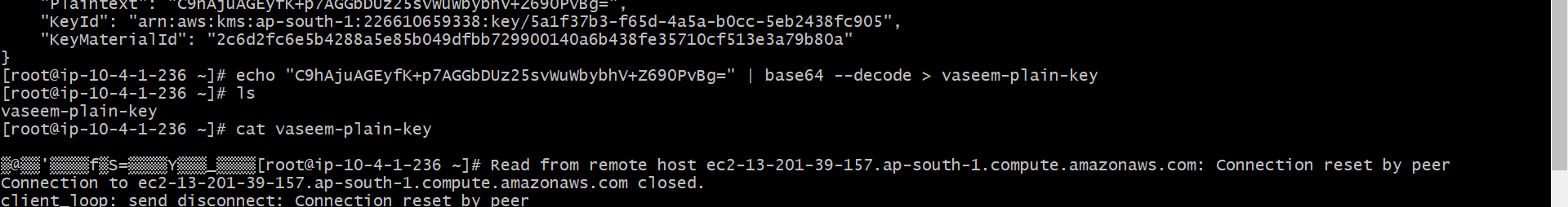
"KeyId": "arn:aws:kms:ap-south-1:226610659338:key/5a1f37b3-f65d-4a5a-b0cc-5eb2438fc905",

"KeyMaterialId": "2c6d2fc6e5b4288a5e85b049dfbb729900140a6b438fe35710cf513e3a79b80a"

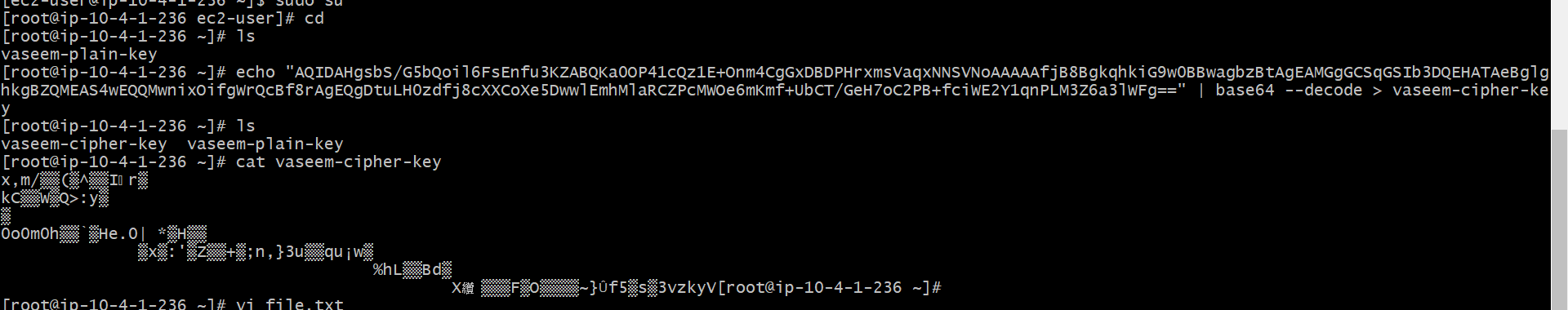
1. **Here we have configured the aws configuration**
2. Generate a KMS Data Key (DEK)
3. aws kms generate-data-key --key-id alias/vaseem-key --key-spec AES\_256 --region ap-south-1



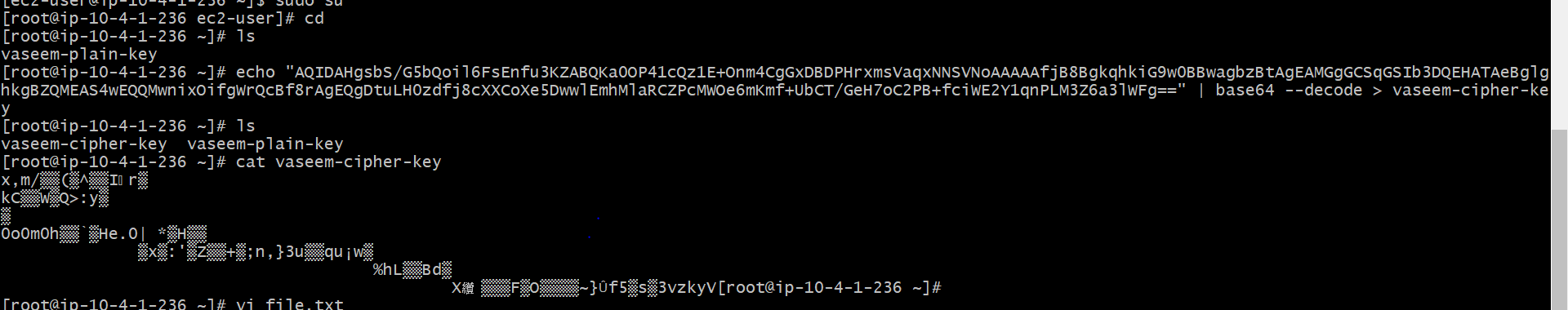
1. **Than Redirected the JSON to keys.txt for reuse:**
2. aws kms generate-data-key --key-id alias/vaseem-key --key-spec AES\_256 region ap-south-1> keys.txt



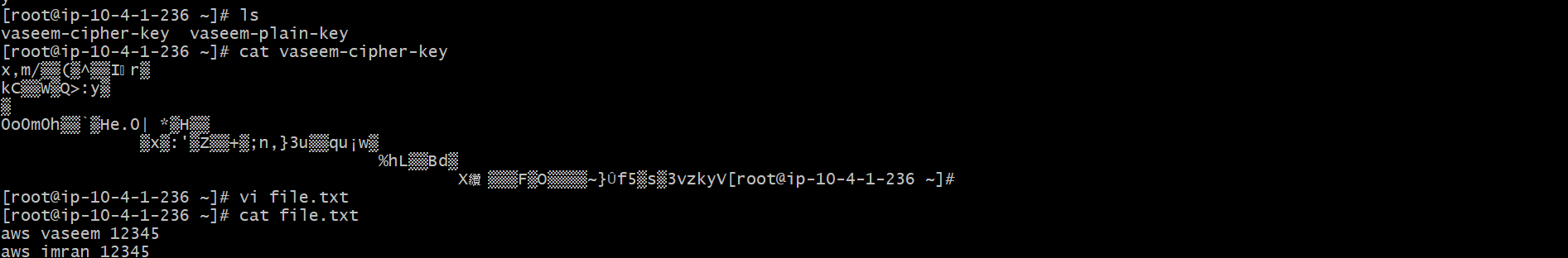
1. **Create a binary file with the plaintext DEK**
2. echo "C9hAjuAGEyfK+p7AGGbDUz25svWuWbybhV+Z690PvBg=", | base64 --decode > vaseem-plain-key



1. **Create a binary file with the encrypted DEK with the cipher text (use normal double quoets "")**
2. echo "copy the cipher text" | base64 --decode > vaseem-cipher-key

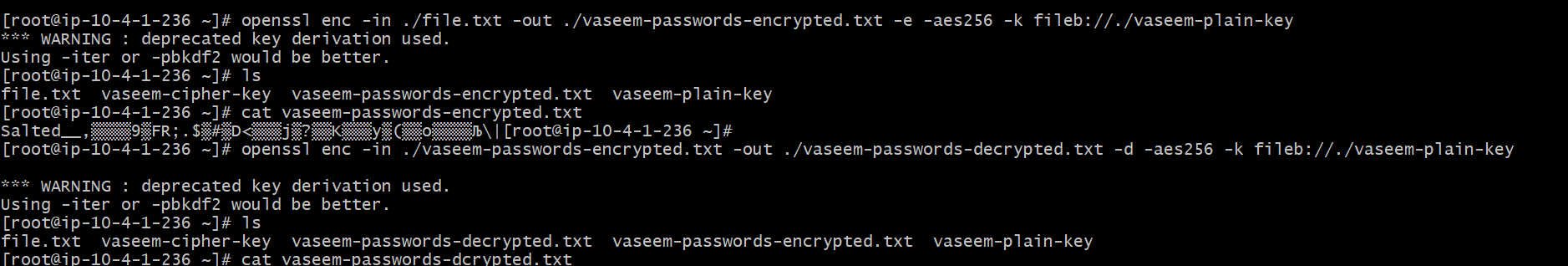


1. **You asked KMS to decrypt the stored encrypted DEK: (KMS returned the same Plaintext (base64) DEK you had originally.)**
2. aws kms decrypt --ciphertext-blob fileb://./vaseem-cipher-key --region ap-south-1



1. **Encrypt your secrets with OpenSSL (get unreadable binary)**

**openssl enc -in ./file.txt -out ./vaseem-passwords-encrypted.txt -e -aes256 -k fileb://./vaseem-plain-key**



1. **Decrypt your file You used OpenSSL with the same parameters to get back the cleartext:**

openssl enc -in ./vaseem-passwords-encrypted.txt -out ./vaseem-passwords-decrypted.txt -d -aes256 -k fileb://./vaseem-plain-key

