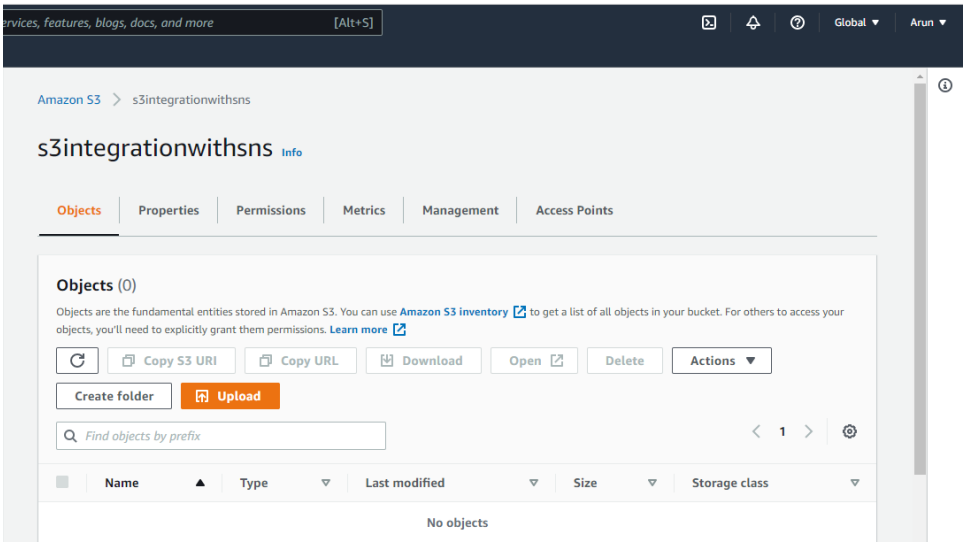
S3 integration with SNS

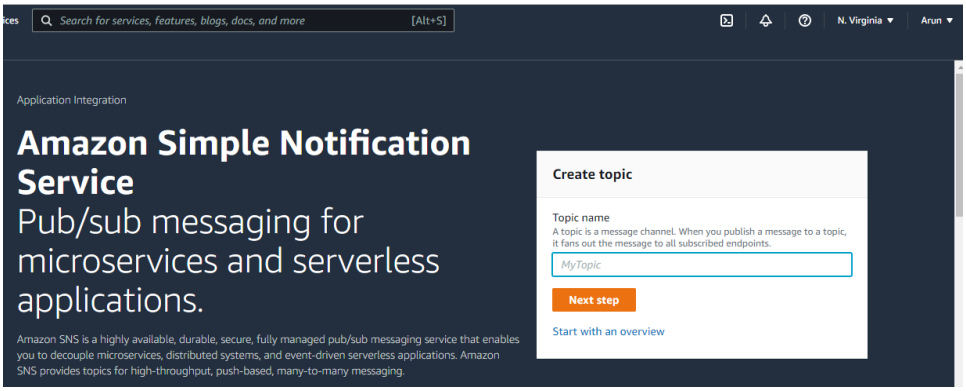
Overview

1. **Create s3 bucket**
2. **Create an Event**
3. **Create Subscription**
4. **Update the topic Policy**
5. **Add event notification rule in s3**

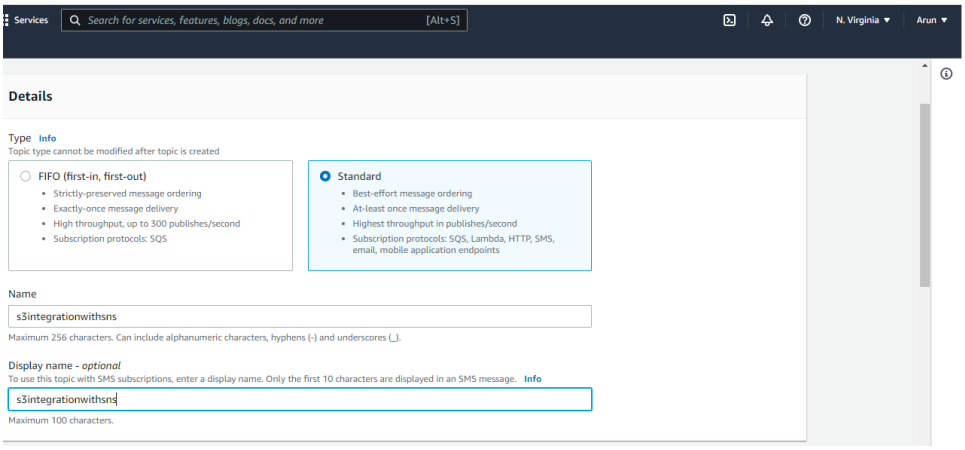
Step 1 : Create a s3 bucket



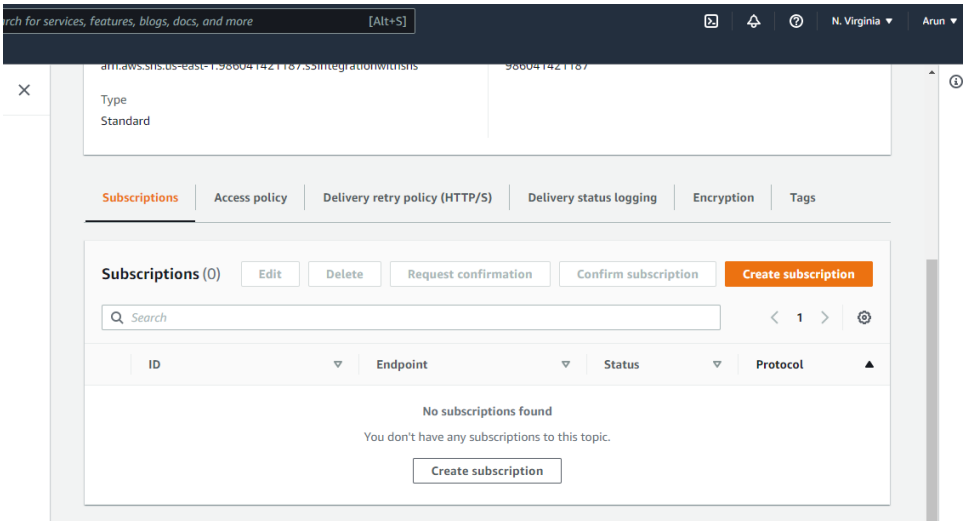
Step 2 : Goto SNS dashboard in management console >> Create topic



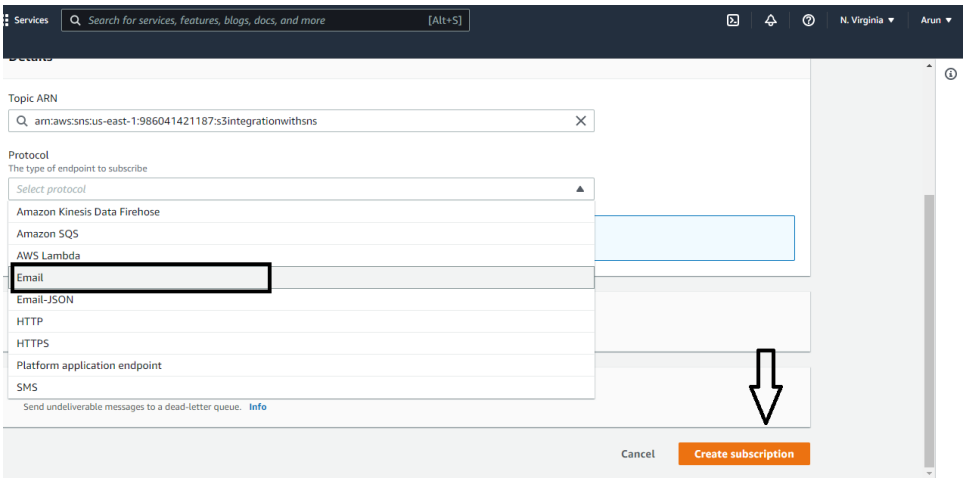
Step 3 : Select type as standard , click create topic



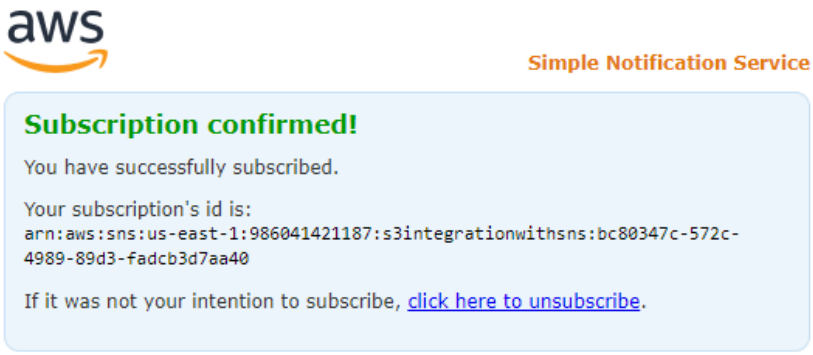
Step 4 : create subscription in the topic



Step 5 : Select the protocol based on the requirement and provide emailid as endpoint click create subscription



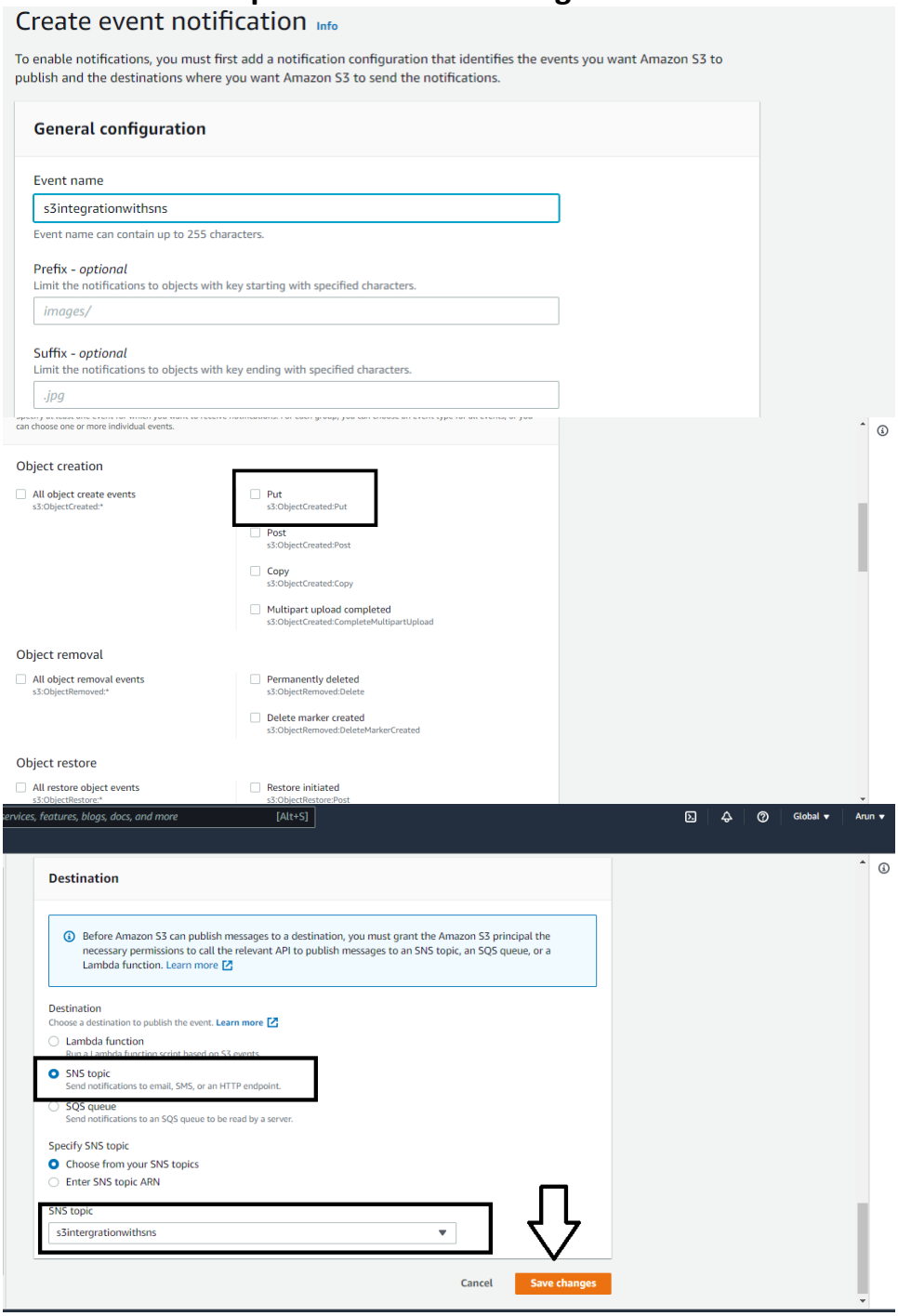
Step 6 : confirm email id



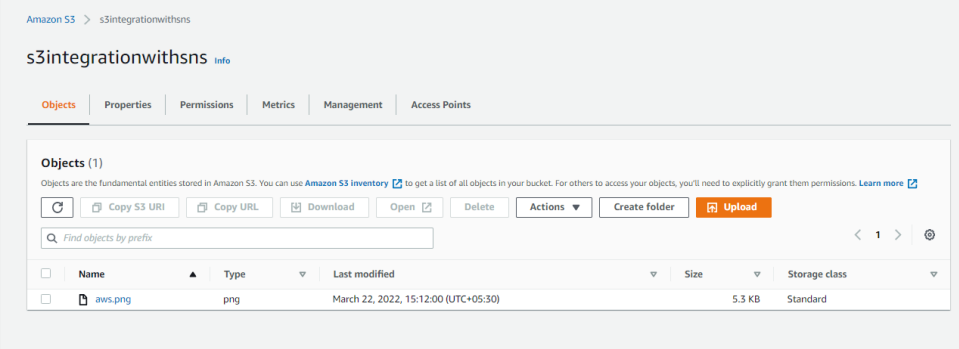
Step 7 : goto Topic Access Policy update policy with below json code

```
{
 "Version": "2008-10-17",
 "Id": "__default_policy_ID",
 "Statement": [
  {
   "Sid": "__default_statement_ID",
   "Effect": "Allow",
   "Principal": {
    "AWS": "*"
   },
   "Action": [
    "SNS:GetTopicAttributes",
    "SNS:SetTopicAttributes",
    "SNS:AddPermission",
    "SNS:RemovePermission",
    "SNS:DeleteTopic",
    "SNS:Subscribe",
    "SNS:ListSubscriptionsByTopic",
    "SNS:Publish"
   ],
   "Resource": "arn:aws:sns:us-east-1:986041421187:s3integrationwithsns",
   "Condition": {
    "ArnLike": {
        "aws:SourceArn": "arn:aws:s3:::s3integrationwithsns"
    }
   }
  }
 ]
}
```

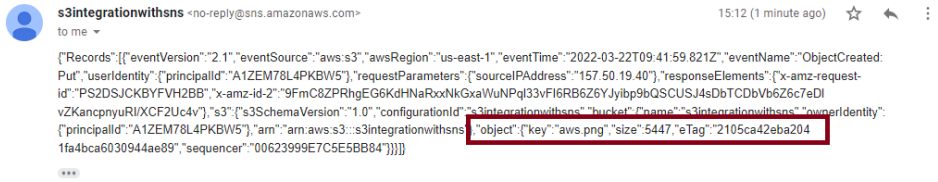
Step 8 : Go to s3 bucket >> Properties >> event notification >> create event notification >> Event name >> select desired event types >> select destination as SNS and select topic >> click save changes



Step 9 : Upload a object in bucket



Step 10 : check the mail inbox >> there is notification about object addition



s3integrationwithsns <no-reply@sns.amazonaws.com> 15:12 (1 minute ago)

to me

{"Records":[{"eventVersion":"2.1","eventSource":"aws:s3","awsRegion":"us-east-1","eventTime":"2022-03-22T09:41:59.821Z","eventName":"ObjectCreated:Put","userIdentity":{"principalId":"A1ZEM78L4PKBW5"},"requestParameters":{"sourceIPAddress":"157.50.19.40"},"responseElements":{"x-amz-request-id":"PS2DSJCKBYFVH2BB","x-amz-id-2":"9FmC8ZPRhgEG6KdHNaRxxNkGxaWuNPql33vFI6RB6Z6YJyibp9bQSCUSJ4sDbTCDbVb6Z6c7eDIvZKancpnyuRI/XCF2Uc4v"},"s3":{"s3SchemaVersion":"1.0","configurationId":"s3integrationwithsns","bucket":{"name":"s3integrationwithsns","ownerIdentity":{"principalId":"A1ZEM78L4PKBW5"},"arn":"arn:aws:s3:::s3integrationwithsns"},"object":{"key":"aws.png","size":5447,"eTag":"2105ca42eba2041fa4bca6030944ae89","sequencer":"00623999E7C5E5BB84"}}}]}