

ASSIGNMENT

Task-1: Complete the bucket policy assignment. If in your S3 bucket you have some .png files and some .pdf files, create a bucket policy to make the .png files accessible to all public users (without login). And restrict the .pdf files to the public users.

Solution:-

Stepwise solution

Step-1-> First of all we have to create s3 bucket and then select aws policy generator and then add the policy type and statement.

The screenshot shows the AWS Policy Generator web interface in a browser. The browser's address bar shows the URL `awspolicygen.s3.amazonaws.com/policygen.html`. The page has the Amazon Web Services logo at the top. Below the logo, the title "AWS Policy Generator" is displayed, followed by a brief description: "The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see [key concepts in Using AWS Identity and Access Management](#). Here are [sample policies](#)."

Step 1: Select Policy Type
A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.

Select Type of Policy S3 Bucket Policy

Step 2: Add Statement(s)
A statement is the formal description of a single permission. See a [description of elements](#) that you can use in statements.

Effect ☒ Allow ☐ Deny

Principal
Use a comma to separate multiple values.

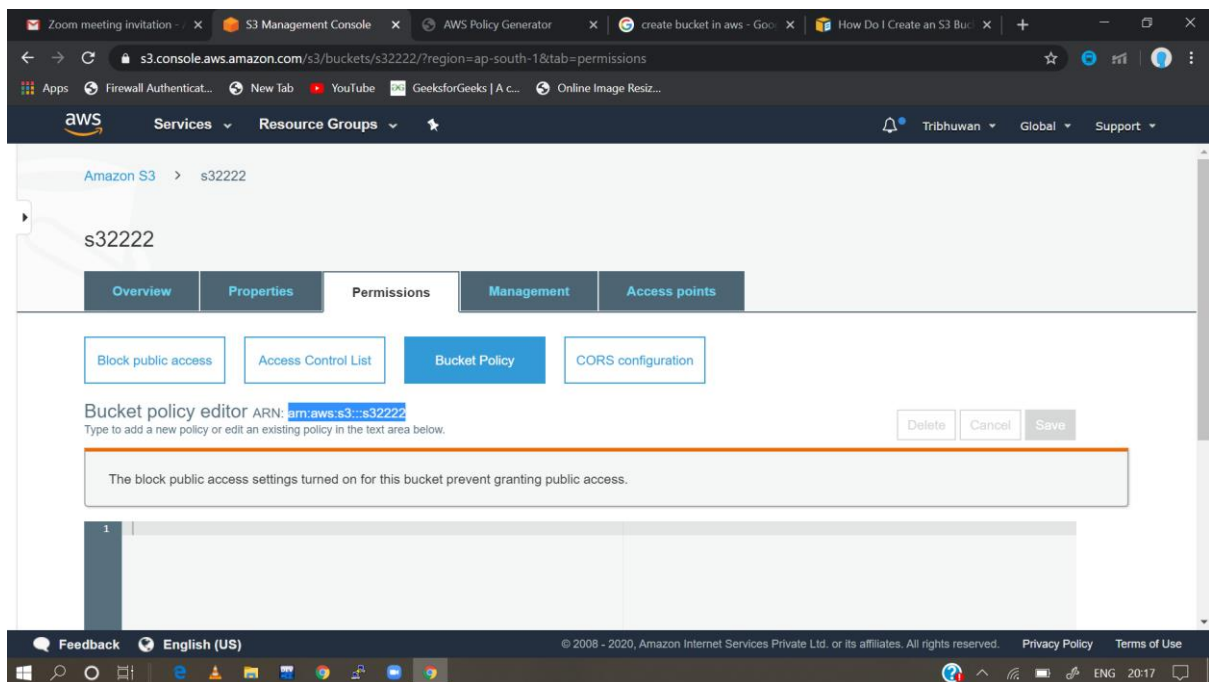
AWS Service Amazon S3 ☐ All Services (**)
Use multiple statements to add permissions for more than one service.

Actions -- Select Actions -- ☐ All Actions (**)

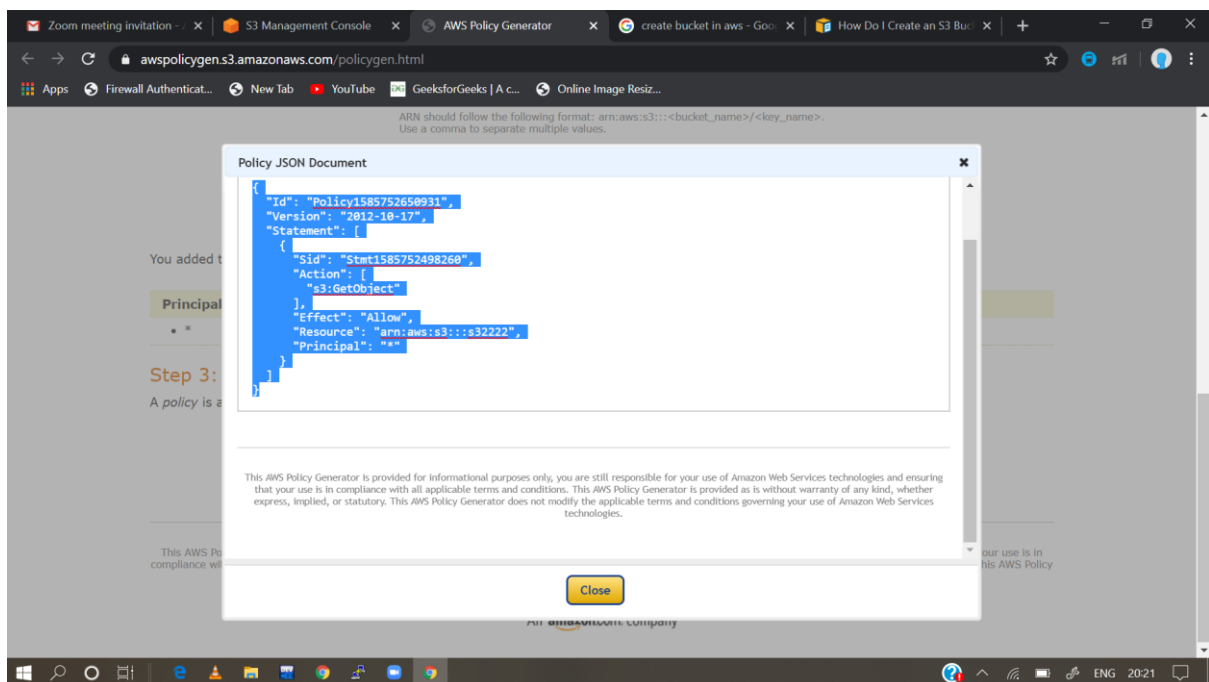
Amazon Resource Name (ARN)

The bottom of the image shows a Windows taskbar with various application icons and a system tray on the right displaying the time as 20:19 and the language as ENG.

Step 2:- then after configuring and adding statements then we have to generate the policy



Step 3 - Then copy the json document policy to the policy generator and then save the script.

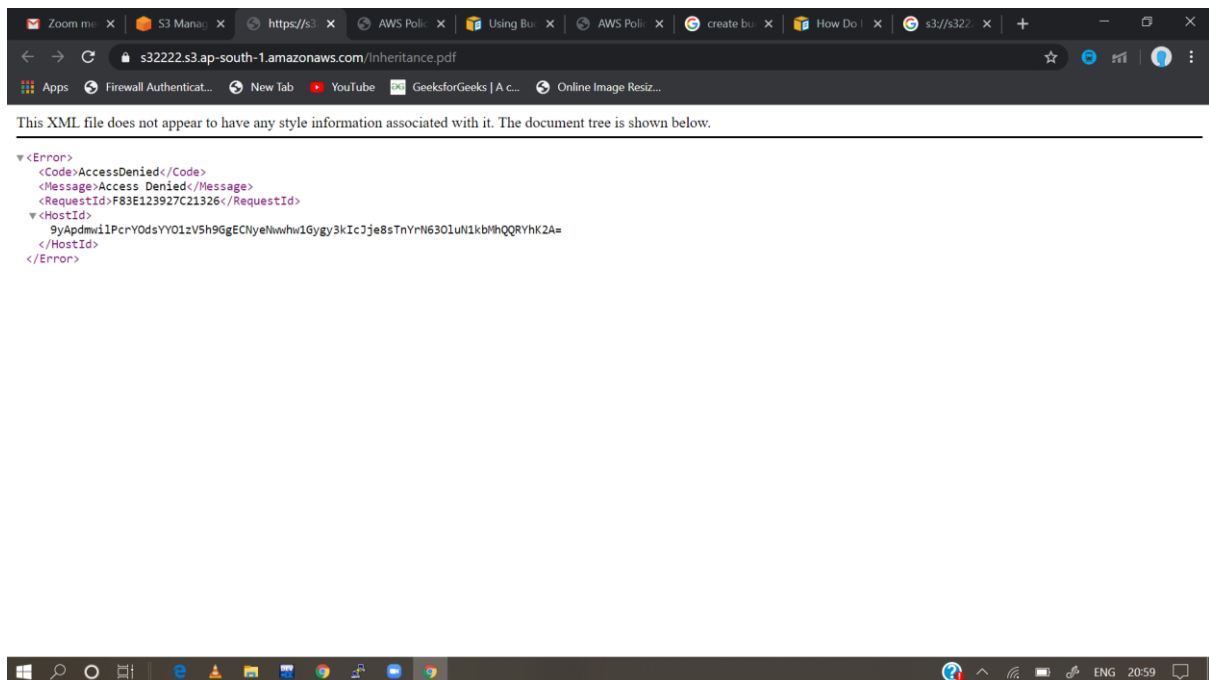


Step-4 upload some png file and some jpg or other files and then check the url

For the public access



For the private access



TASK-2- Write the steps to create an autoscaling group and associate the EC2 instances of that autoscaling group with an Application load balancer. When you click on the URL of Application load balancer, it should return the content from EC2 instances.

Steps

1. Create a Application Load Balance In the wizard, also create Target group but do not add any instances
2. Create an Autoscaling Group of any sizes but not less than 2.
3. Create Launch Configuration.
4. Make sure you add userdata (see below) to download and install website
Associate Target group with Autoscaling group
Associate ELB health check
5. Wait for instances to be running
See if you are able to access your Web Application using Load balancer DNS
Increase the load on the web server
Login to any of the EC2 over ssh (Make sure 22 port is open)
Install stress: `sudo yum install stress -y`
6. Increase system load: `stress --cpu 8 -timeout 300` Wait for 5 mins and see if scaling activities happen