**Lesson 7 Demo 3**

**Creating a Resource-based Policy Using a Policy Generator and Principal**

**Objective:** To create and configure a resource-based policy using a policy generator and principal

**Tools required:** AWS Lab

**Prerequisites:** None

**Steps to be followed:**

1. Creating a resource-based policy.
2. Policy generator using principals.

**Step 1: Creating a resource-based policy****.**

1. Go to the **Amazon console** and search for **IAM** in the search bar.

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1. In the IAM dashboard, click on **Users.**

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1. Click on the **Add user**, button and create two user names, **user1** and **user2**,as shown below:

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1. Click on the **Next: Permissions** button. Select **Attach existing policies directly** as shown below: A screenshot of a computer

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2. In filters select the **Amazons3FullAccess** option. Click on the **Next: Tags** button.

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1. Click on the **Next: Review** button. Now click on **Create users** button as shown below:

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1. Follow the same above process for creating **user2**.

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**Step 2: Policy generator using principals.**

1. Go to **Services** and select **S3.**

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1. Click on **Create bucket** button and add the bucket name as **user1and2.** Select AWS Region as shown below:

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1. Click on **Create bucket** button. Then click on **user1anduser2**.

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1. Select **Permissions** as shown below:

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1. Click on **Edit** under Bucket policy.

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1. Click on **Policy generator**

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1. To enter the value in principle, go to IAM **users** andclick on **user1.**

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1. Copy **User ARN**.

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Description automatically generated

1. Paste it into the principal column as shown below:

Graphical user interface, text, application, email

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1. Select the **All Actions** option.

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1. For Amazon Resource Name (ARN), go to the S3 bucket, select **bucket name**, and click on the **copy ARN** button.

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Description automatically generated

1. Paste the copied ARN into the **ARN** as shown below:

Graphical user interface, text, application, email

Description automatically generated

1. Click on the **Add Statement** button as shown below:

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Description automatically generated

1. Click on the **Generate Policy** button. The statement will be generated as shown below:

Graphical user interface, text, application, email

Description automatically generated

1. Policy will be generated as below:

Graphical user interface, text, application

Description automatically generated

1. Copy JSON policy and paste it into the **bucket policy** as shown below:

Graphical user interface, text, application

Description automatically generated

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