

# Custom IAM Policies for Different Developer Groups

## 1. Create Custom IAM Policies

- **Navigate to the IAM Console:**
  - Go to the [IAM Management Console](#).
- **Create a New Policy:**
  - Click on **Policies** in the left sidebar.
  - Click **Create policy**.
  - Choose the **JSON** tab.
  - Paste the policy JSON and customize it as needed.
- **Save the Policy:**
  - Name the policy (e.g., BackendGroupPolicy, FrontendGroupPolicy).
  - Review and create the policy.

## 2. Policy JSON Examples

- **Backend Group Policy:**
  - Provides S3 read/write access and Load Balancer admin access.

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "s3:PutObject",
        "s3:GetObject",
        "s3:ListBucket"
      ],
      "Resource": [
```

```

    "arn:aws:s3:::your-backend-bucket",
    "arn:aws:s3:::your-backend-bucket/*"
  ]
},
{
  "Effect": "Allow",
  "Action": [
    "elasticloadbalancing:*"
  ],
  "Resource": "*"
}
]
}

```

- **Frontend Group Policy:**

- Provides EC2 access to a specific instance only.

```

{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Action": [
        "ec2:DescribeInstances"
      ],
      "Resource": "*"
    },
    {
      "Effect": "Allow",
      "Action": [
        "ec2:StartInstances",
        "ec2:StopInstances"
      ],

```

```
"Resource": "arn:aws:ec2:eu-north-1:396608795484:instance/i-07b47219f2840284e"
}
]
}
```

### 3. Attach Policies to Groups

- **Create or Select a Group:**
  - Go to **Groups** in the IAM console.
  - Click **Create New Group** or select an existing group.
- **Attach the Custom Policy:**
  - Click **Attach policies**.
  - Search for and select the custom policy you created.
  - Click **Attach policy**.

### 4. Add Users to the Groups

- **Navigate to Users:**
  - Go to **Users** in the IAM console.
- **Add Users to Groups:**
  - Select a user and click on **Add to group**.
  - Choose the appropriate group (e.g., Backend Developers, Frontend Developers).
  - Click **Add to group**.

### 5. Verify Permissions

- Ensure that users in the group can access only the specified resources according to the policies.
- Test by logging in with a user account and performing allowed actions.

**Note:** Replace placeholders like your-backend-bucket and i-frontend-instance-id with actual values for your AWS resources.