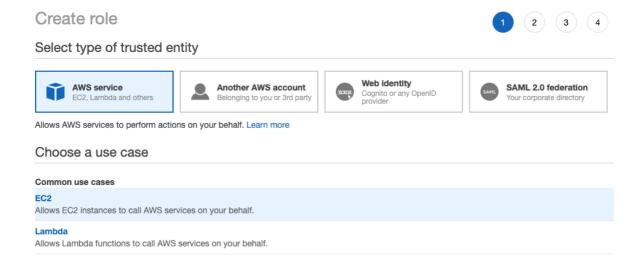
Solution: IAM Role Exercise

An IAM Role is an IAM identity similar to IAM user. Instead of uniquely associating with a person, a role is designed for anyone who needs to assume it. This is an excellent fit for a service or a server-to-server identity.

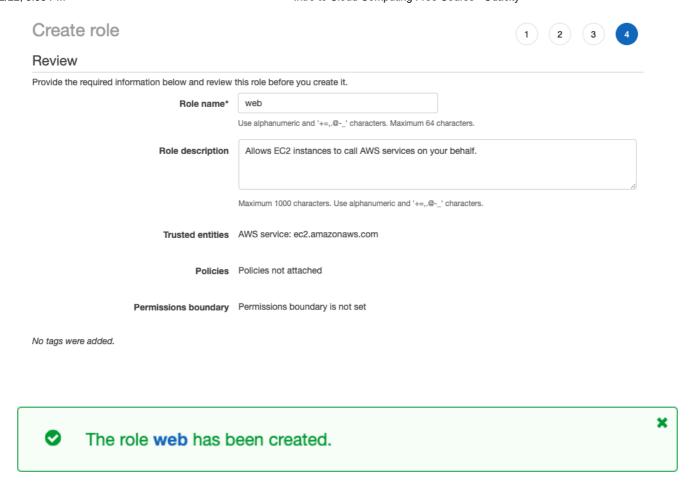
A role is more secure than the long-lived credentials of an IAM user because when the role is assumed it provides temporary security credentials that expire and renew every 15 minutes

Create the IAM Role

- 1. Navigate to the IAM console
- 2. Click **Roles** on the sidebar menu
- 3. Click on the Create Role button
- 4. Since we intended to use the role on an EC2 in the next exercise, choose EC2 as the use case, and click on Next: Permissions button



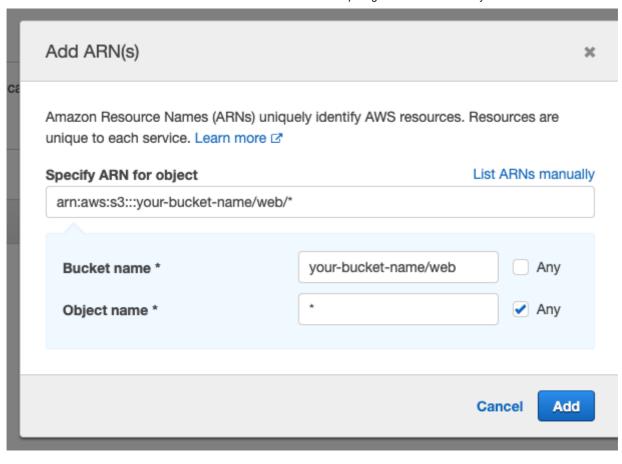
- 5. If we were to click on the Create Policy button, the role creation would be canceled, so instead click on **Next** until you get to the review page
- 6. Name the role web and click on the Create Role button

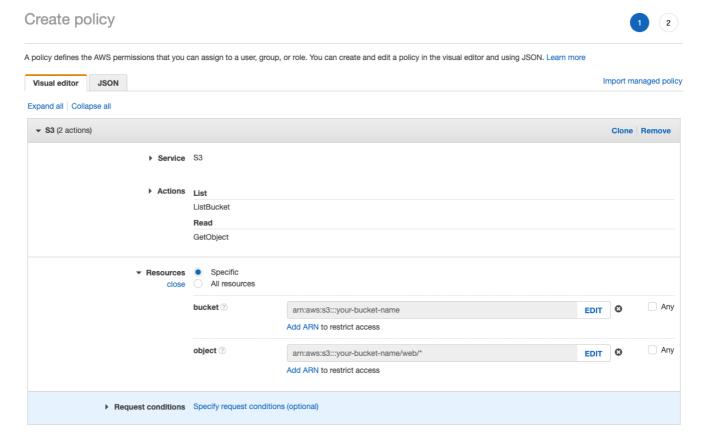


Creating and Attaching an IAM Policy to the Role

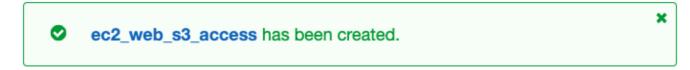
Now that we have a role, let's create an IAM policy so that it can access our S3 bucket.

- 1. From the sidebar menu click on Policies and then click on the Create Policy button
- 2. Select S3 for the service
- 3. On the Actions field select ListBucket and GetObject
- 4. Click on Resources, while it is set to specific click the Add ARN for the bucket and add your bucket name
- 5. Click on the Add ARN for the object, set the bucket name again to your bucket name and set the object name to "web/*"





7. Click on the Review policy button, set a name (for example, "ec2 web s3 access") and click the Create policy button

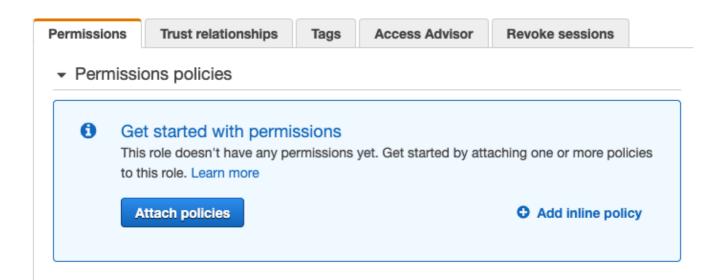


Attaching the Policy to the IAM Role

- 1. Click on the Roles on the sidebar menu of the IAM console
- 2. Search for the role "web"



- 3. Click on the role name to edit the role
- 4. Click on the **Attach policies** button



- 5. Search for "web" to find the policy you just created
- 6. Select it and click the **Attach policies** button

