

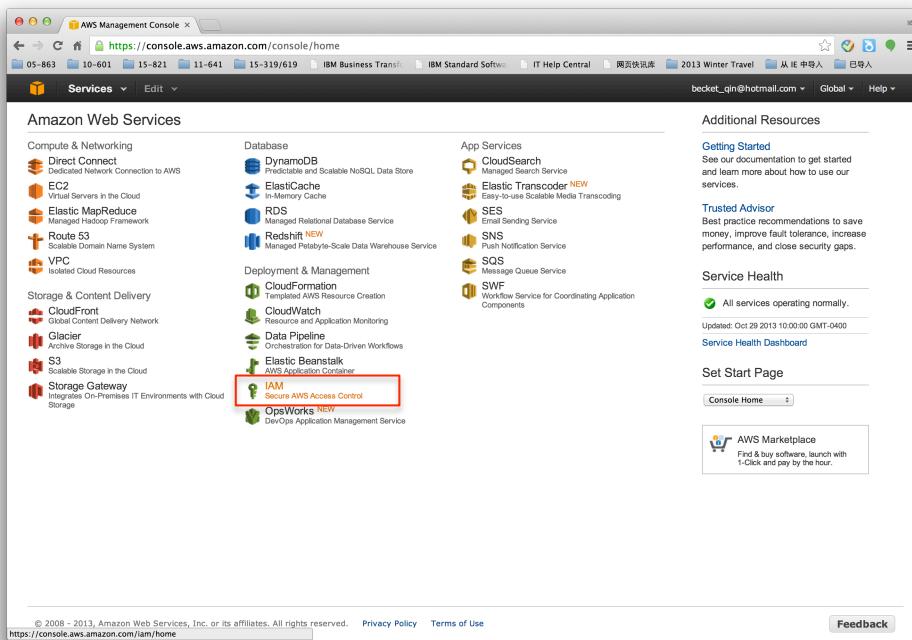
# Create IAM Role

The reason for creating IAM role is that for some AMI we provide to you there will be some scripts running to grab the information of your instances. Those scripts require some permission in order to get the information.

**You only need to assign IAM role to instances running AMI for which we ask you to assign IAM role to.**

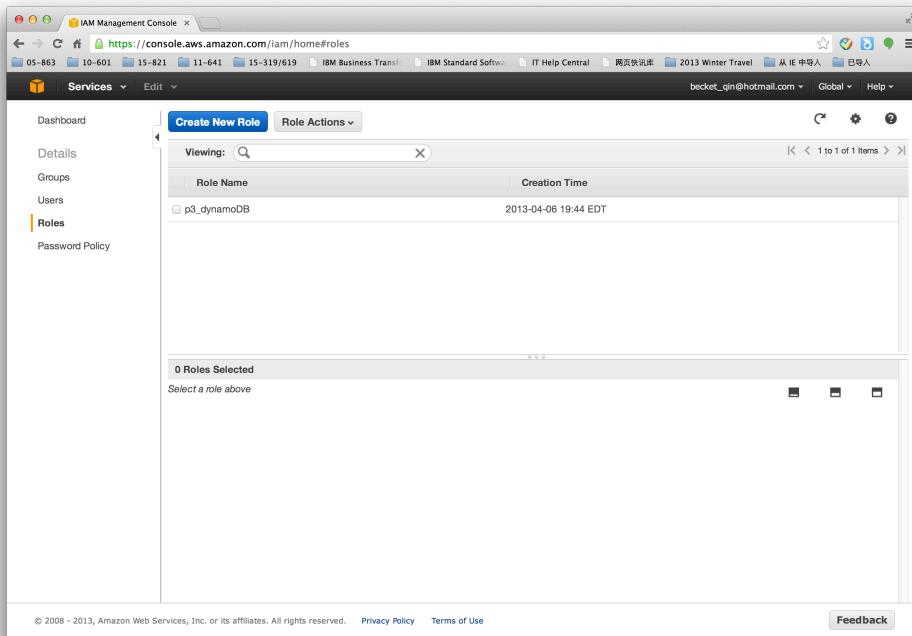
## Step 1:

Go to AWS web console and select IAM



## Step 2:

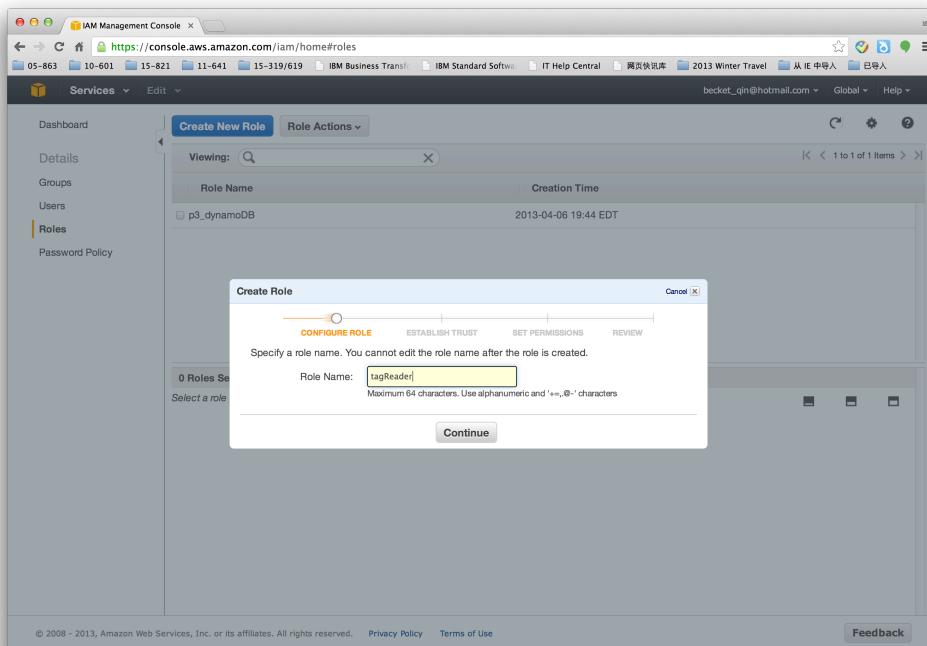
Select Roles and Click Create New Role



The screenshot shows the IAM Management Console interface. The left sidebar has 'Roles' selected. The main area displays a table with one row: 'Role Name' p3\_dynamoDB and 'Creation Time' 2013-04-06 19:44 EDT. Below the table, a message says '0 Roles Selected' and 'Select a role above'. At the top, there's a 'Create New Role' button.

## Step 3

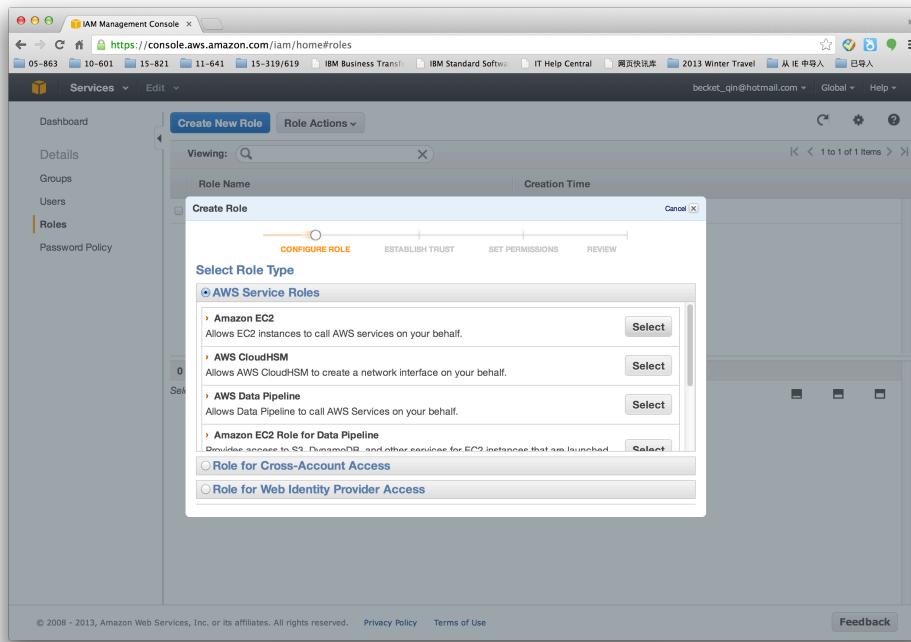
Specify the role name **tagReader**.



The screenshot shows the 'Create New Role' dialog box. It has four tabs: 'CONFIGURE ROLE' (selected), 'ESTABLISH TRUST', 'SET PERMISSIONS', and 'REVIEW'. The 'Role Name' field contains 'tagReader'. A note below it says 'Maximum 64 characters. Use alphanumeric and '-' characters'. At the bottom of the dialog are 'Cancel' and 'Continue' buttons.

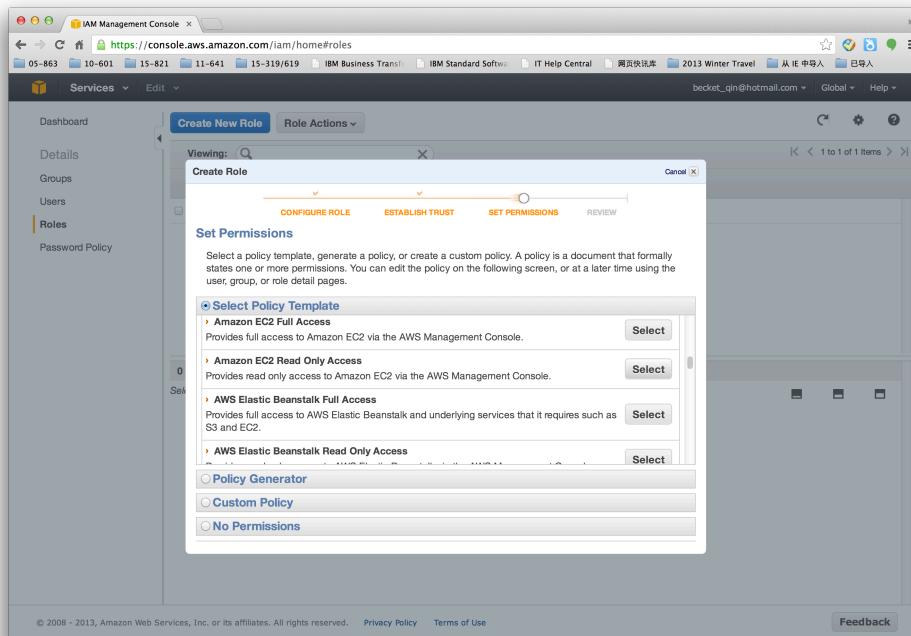
## Step 4

Select **Amazon EC2** as Role Type.



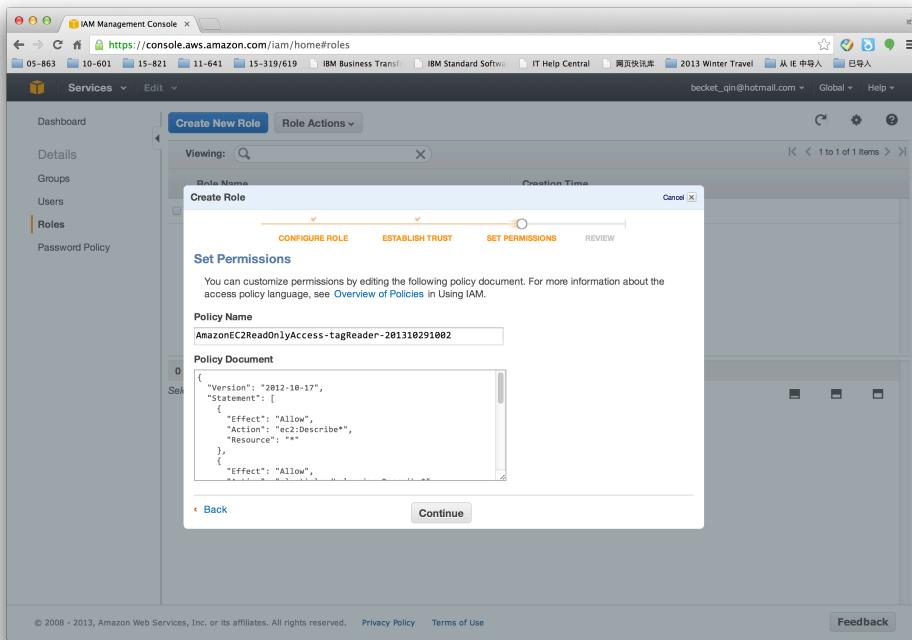
## Step 5

Select policy template to be **Amazon EC2 Read Only Access**.



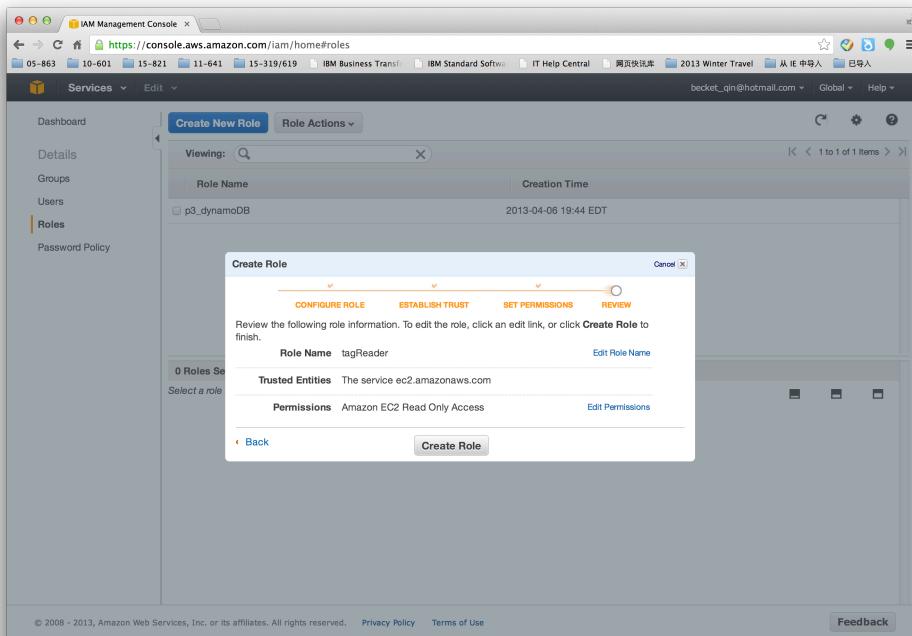
## Step 6

Click **Continue** to confirm the policy.



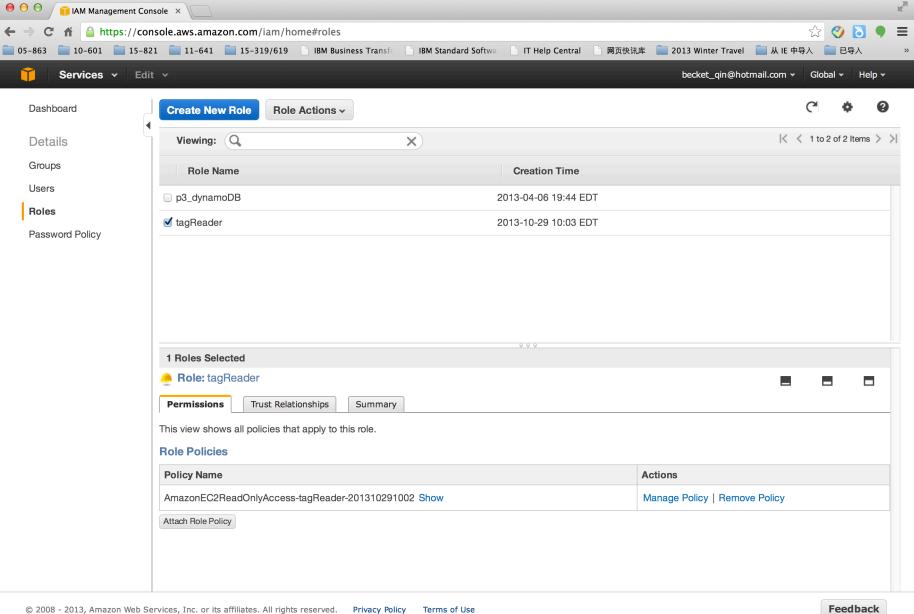
## Step 7

Click **Create Role**.



## Step 8

Verify the role appears in your role list.



The screenshot shows the IAM Management Console interface. The left sidebar has 'Roles' selected. The main area displays a table of roles:

Role Name	Creation Time
p3_dynamicDB	2013-04-06 19:44 EDT
<b>tagReader</b>	2013-10-29 10:03 EDT

Below the table, a modal window titled 'Role: tagReader' is open. It shows the selected role and its attached policies:

**1 Roles Selected**  
Role: tagReader

**Permissions** [Trust Relationships] [Summary]

This view shows all policies that apply to this role.

**Role Policies**

Policy Name	Actions
AmazonEC2ReadOnlyAccess-tagReader-201310291002 Show	Manage Policy   Remove Policy

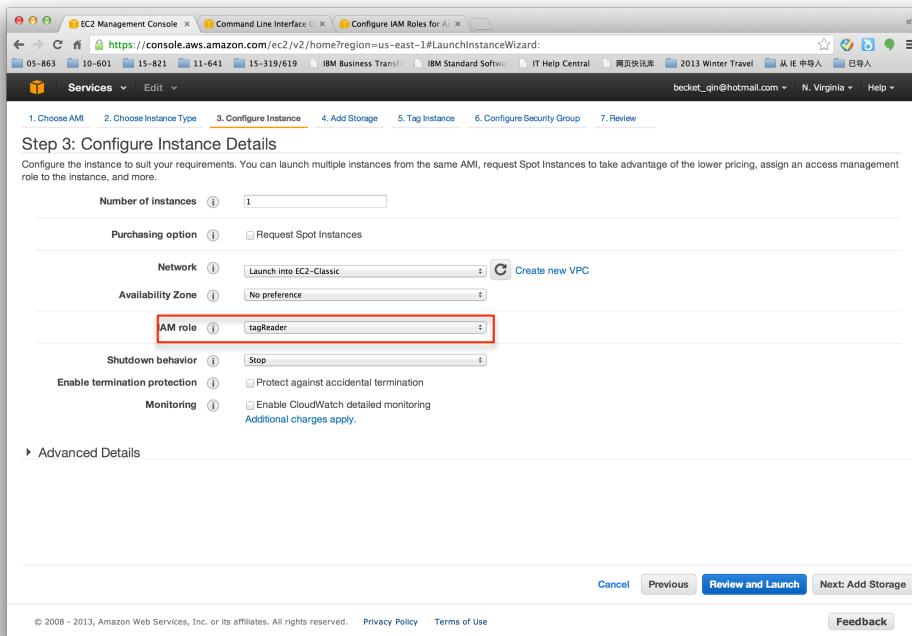
Buttons: Attach Role Policy, Feedback

# Assign IAM Role to Instances

You only need to assign IAM role to instances running AMI for which we ask you to assign IAM role to.

## For instances Launched from EC2 Console

At Step 3 **Configure Instances**, select IAM role for this instance.



## For Elastic Mapreduce Instances

Follow this guide:

<http://docs.aws.amazon.com/ElasticMapReduce/latest/DeveloperGuide/emr-iam-roles.html#emr-iam-roles-launch-jobflow>

# Tag Instances

## Add tag at launch time

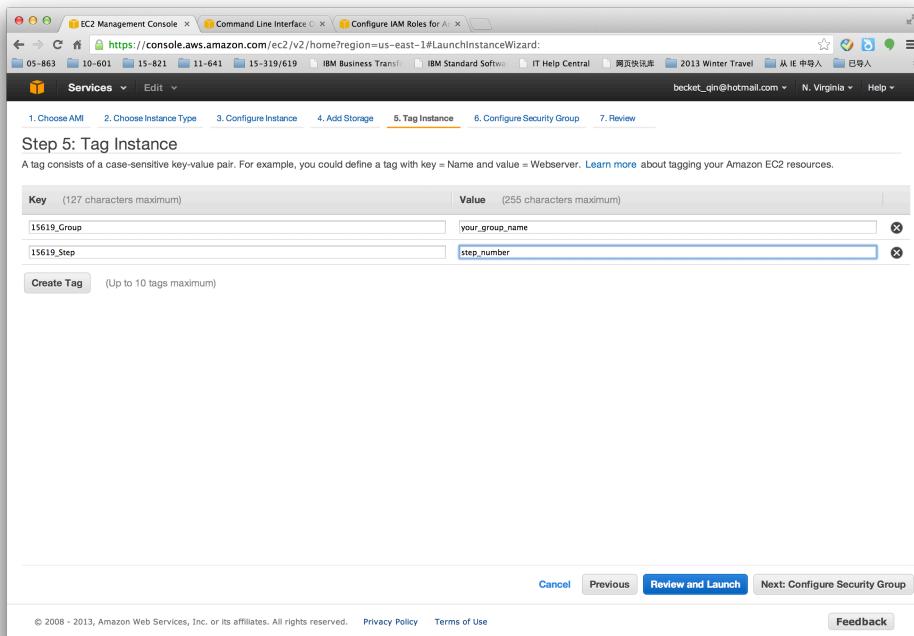
At step 5 **Tag Instances**, assign the tags to the instances according to the format requirement. Please keep in mind that the tag is **case sensitive**.

For 619 Project

Tag Key	Tag Value
15619_Group	The Name of your Project Group (eg. "1337_team")
15619_Step	The step that your are currently performing in the Project (eg. 1, 2, 3, 4, 5 or 6)

For 319 Project

Tag Key	Tag Value
CC_OLI_Project	Module title in lower case (eg. vertical scaling)



## Tag existing instances (e.g. EMR Instances)

Select the instance in EC2 Management Console.

Select **Tags** tab and click **Add/Edit Tags**.

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with sections like Instances, Images, and Network & Security. The main area displays a list of instances. One instance, 'M1' (with ID i-56e8581), is selected and highlighted with a blue border. Below the list, a detailed view for 'Instance: i-56e8581 (M1)' is shown, including its Public DNS. At the bottom of this view, there are tabs for Description, Status Checks, Monitoring, and Tags. The 'Tags' tab is currently active and highlighted with an orange border. Within the 'Tags' section, there is a button labeled 'Add/Edit Tags' which is also highlighted with an orange border. A table below lists the current tags for the instance:

Key	Value	Action
aws:elasticmapreduce:instance-group-role	MASTER	Show Column
aws:elasticmapreduce:job-flow-id	J-3PV3N0HWIGE05	Show Column
15619_Group	becket_test	Show Column
Name	M1	Hide Column