

Creating an AWS IAM Role to connect AWS with Ubidots

This is a complement to [“Connect AWS IoT with Ubidots”](#). If you haven’t read it, make sure to check it out before continuing.

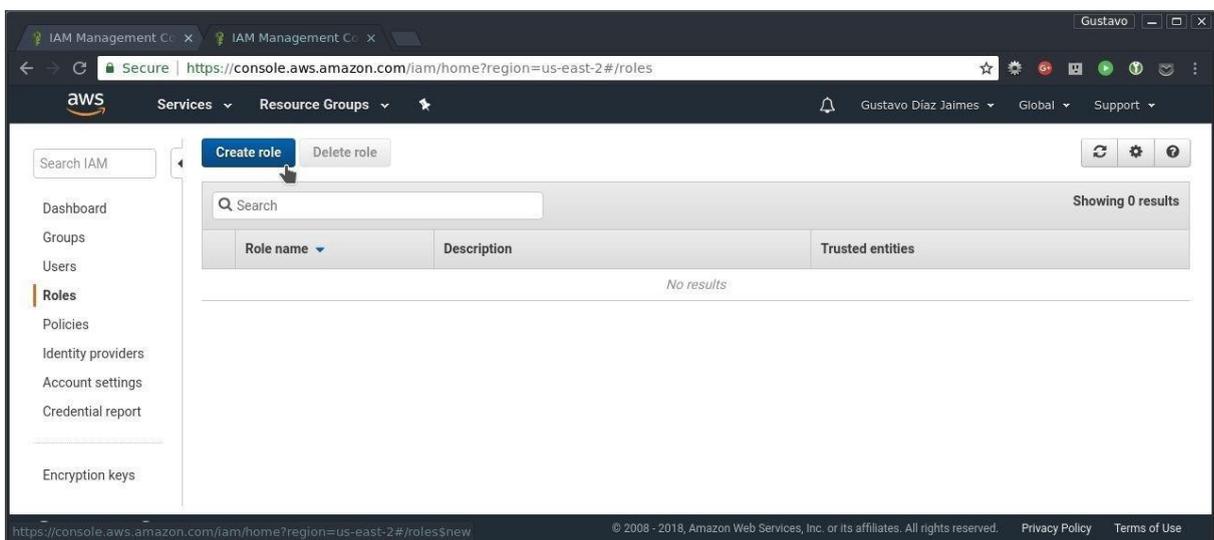
This guide explains an alternative method to grant Ubidots access to your AWS account.

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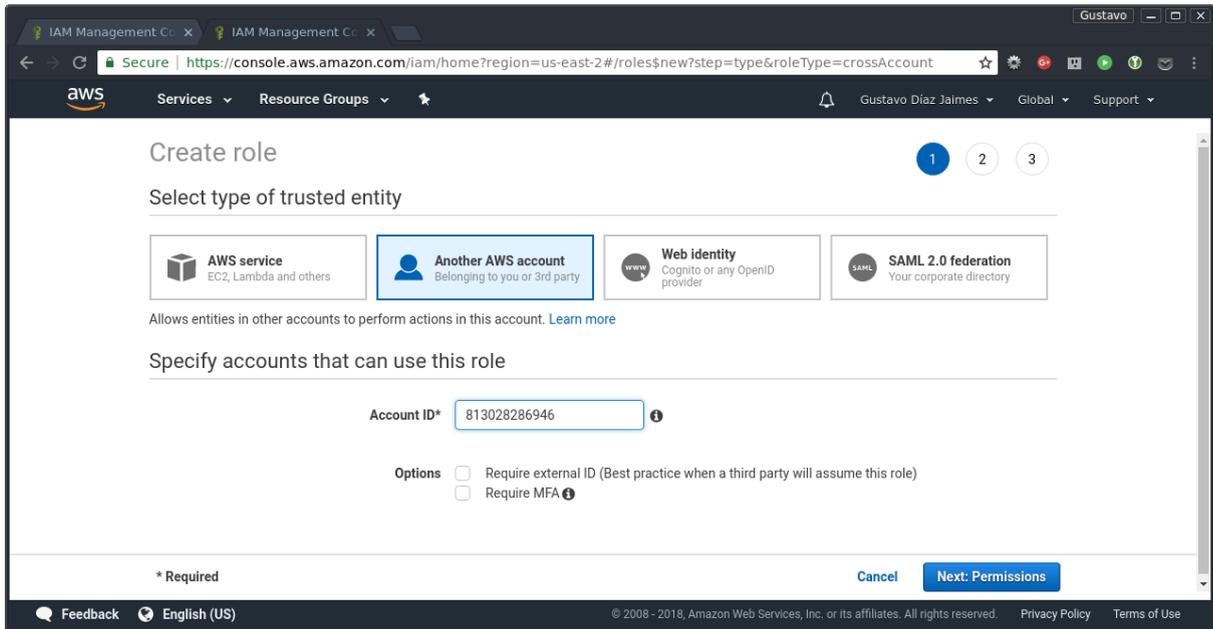
1- Create an AWS IAM Role

Go to your [AWS IAM User Management](#) console, then click on “Roles” → “Create Role”:

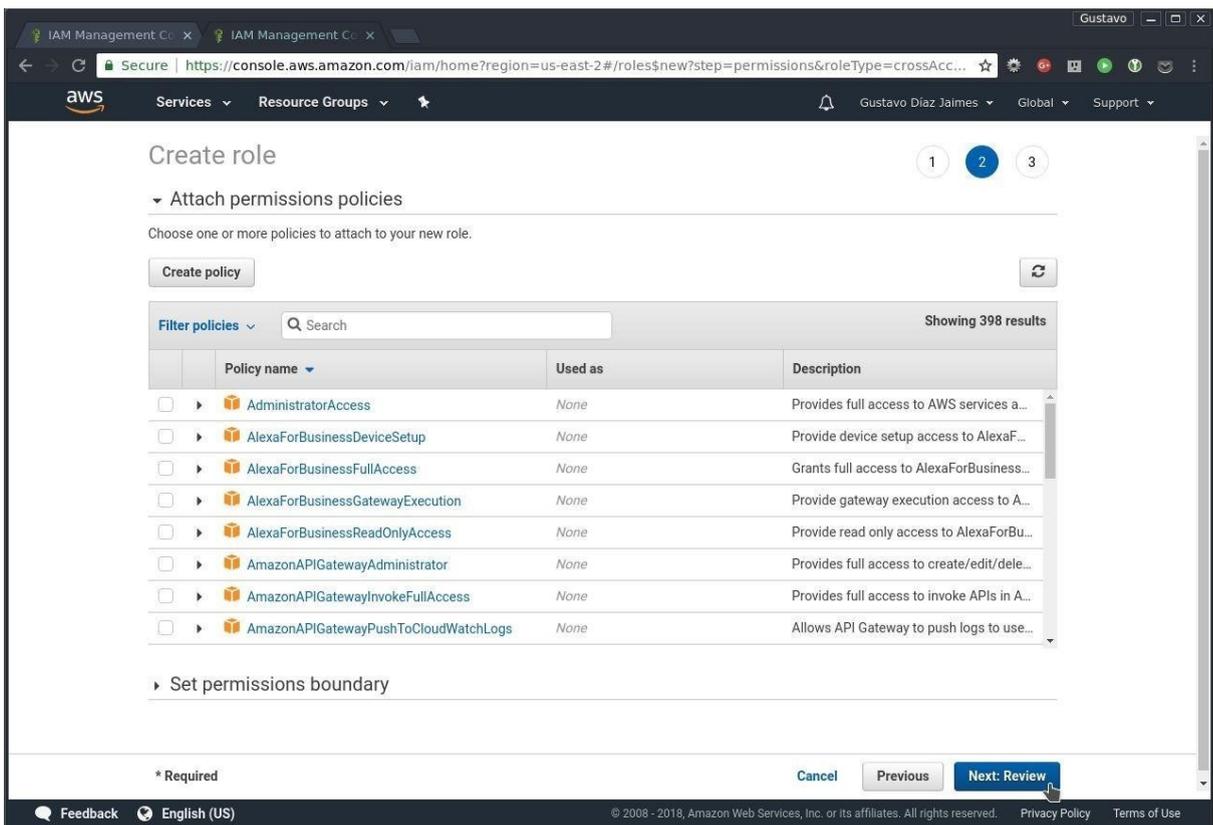


Select the type of trusted entity **“Another AWS Account”**, then enter Ubidots AWS account ID and continue to the next step.

Account ID: **813028286946**

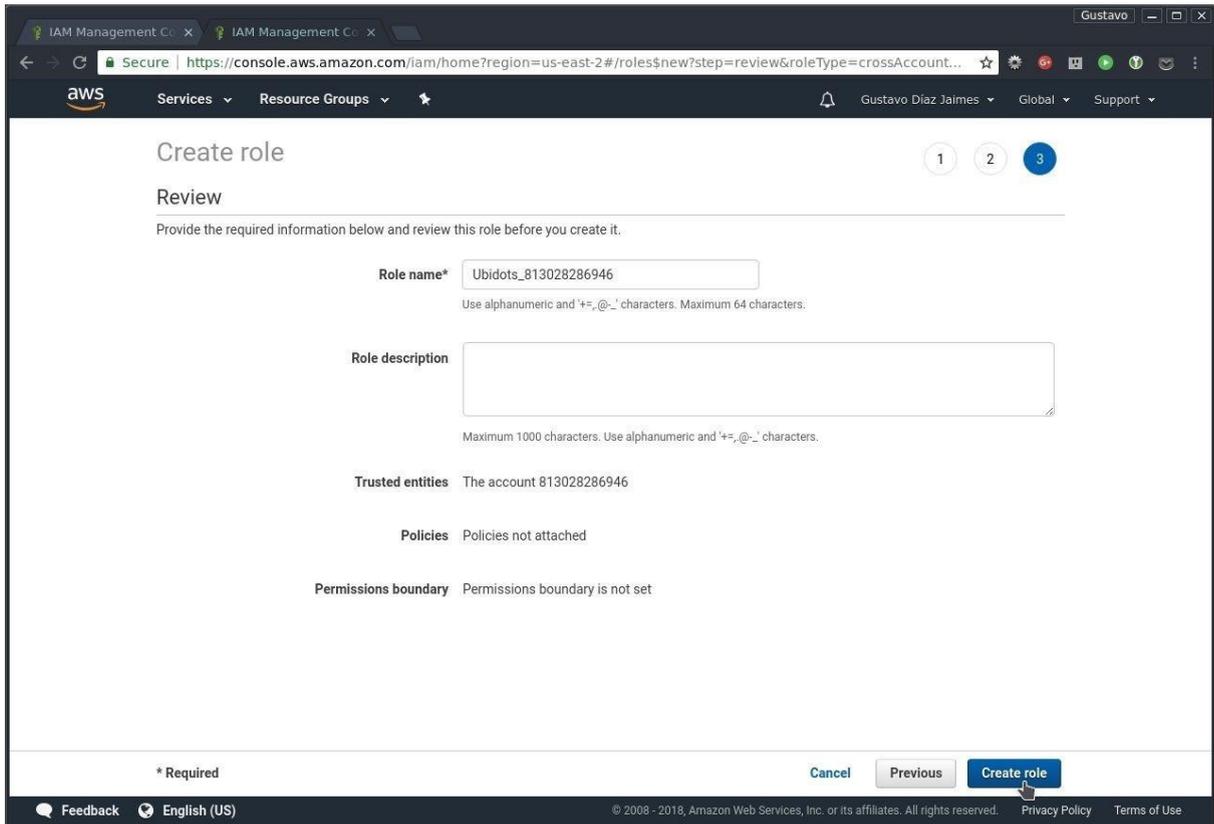


Leave the screen to “Attach permission policies” untouched and click on “Next: Review” (We’ll be adding those permissions later):



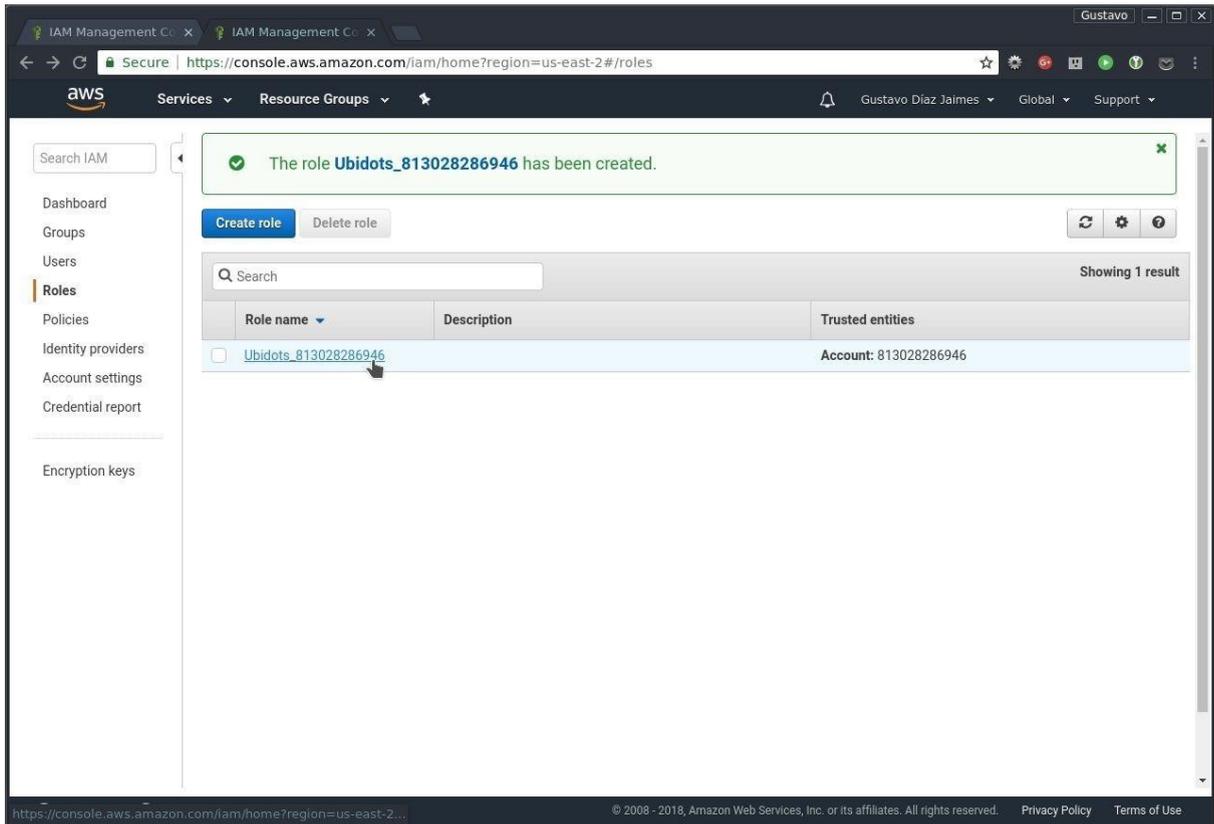
Finally, in the **Role name**, enter a name that begins with “Ubidots_”.

Mandatory prefix for Role name: “Ubidots_”

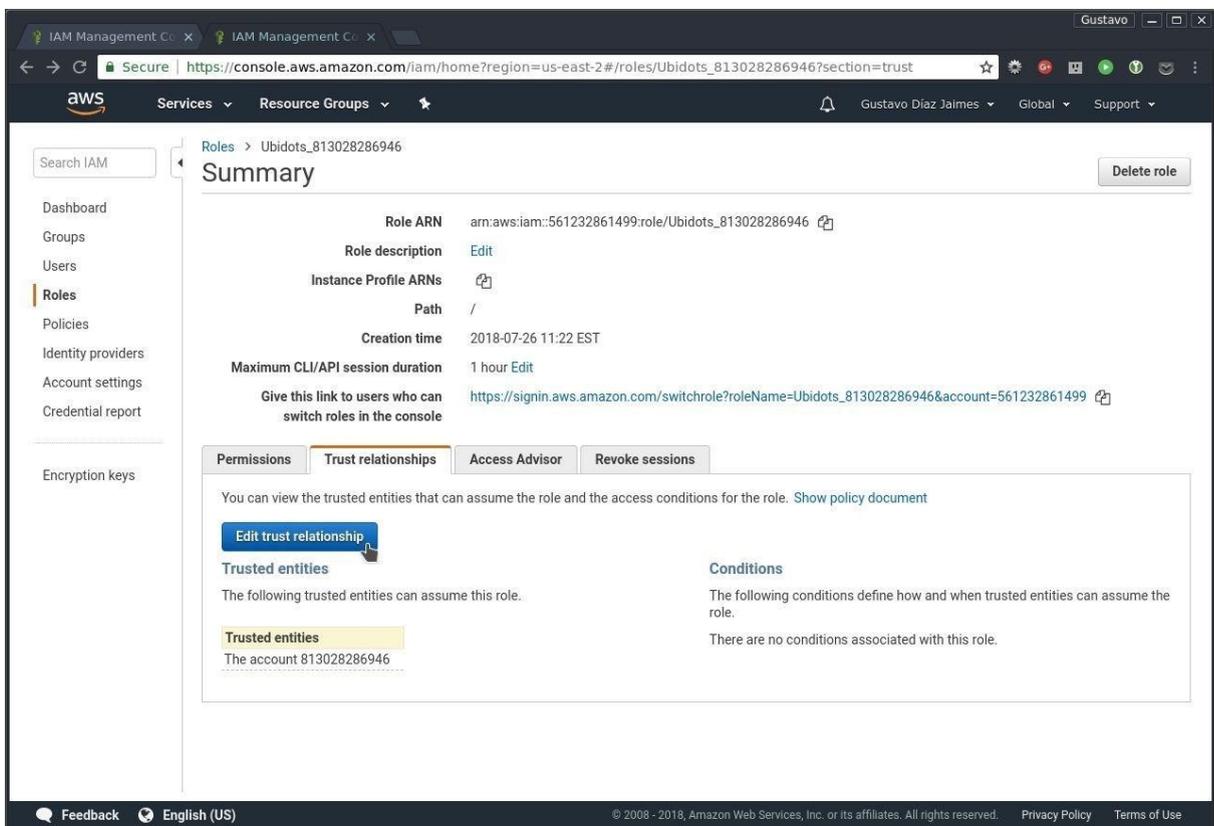


2- Edit IAM Role's Trust Relationship and Permissions

Click on the created Role to edit it:

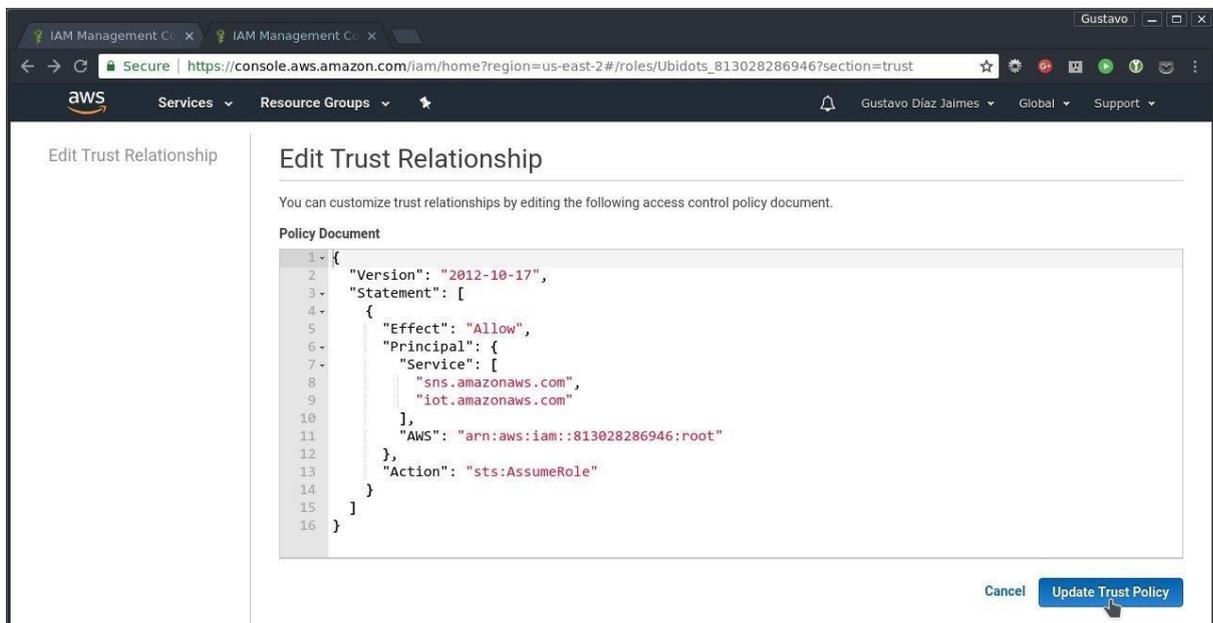


Go to the tab “Trust relationship”, then click on “Edit trust relationship”:

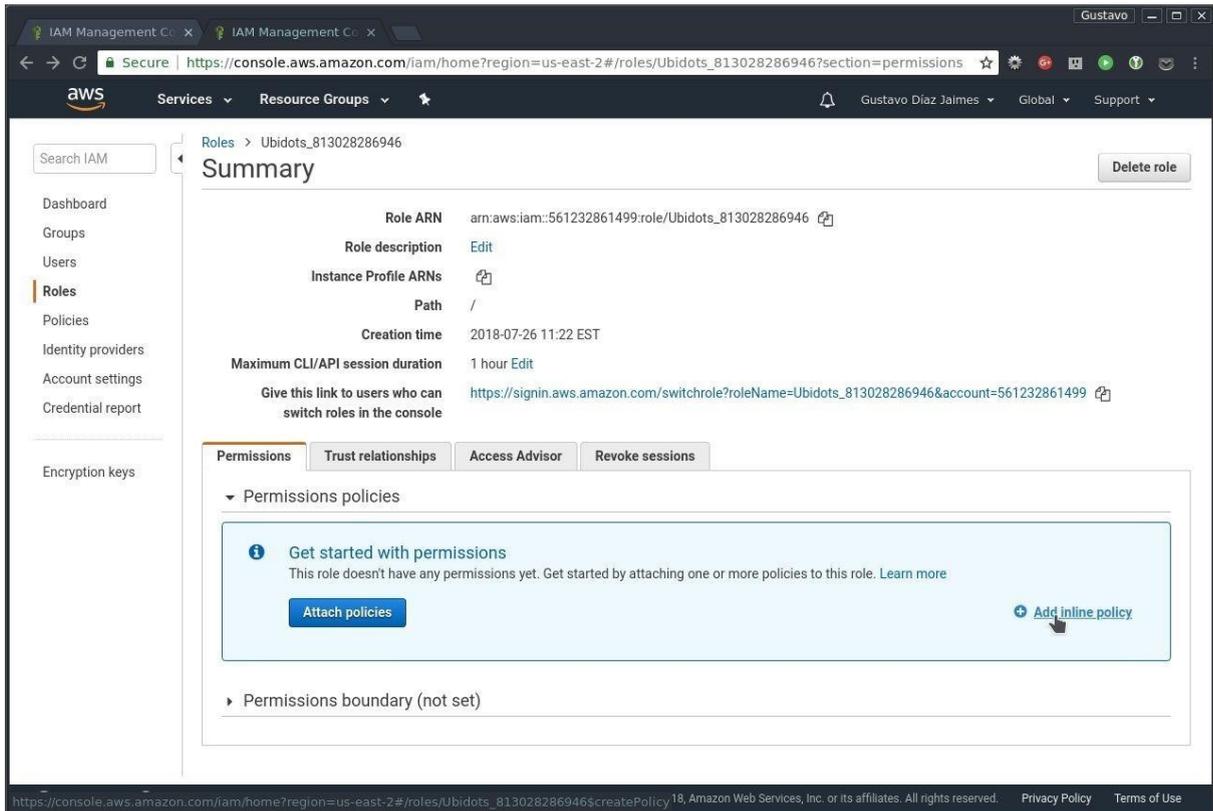


Copy and paste the following trust policy, then click on **“Update Trust Policy”**:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": {
        "Service": [
          "sns.amazonaws.com",
          "iot.amazonaws.com"
        ],
      },
      "AWS": "arn:aws:iam::813028286946:root"
    },
    {
      "Action": "sts:AssumeRole" }
  ]
}
```



Go to the **“Permissions”** tab, then click on **“Add inline policy”**:



The screenshot shows the AWS IAM console interface. The main content area displays the 'Summary' for the role 'Ubidots_813028286946'. Key details include: Role ARN (arn:aws:iam::561232861499:role/Ubidots_813028286946), Role description (Edit), Instance Profile ARNs, Path (/), Creation time (2018-07-26 11:22 EST), and Maximum CLI/API session duration (1 hour Edit). A link is provided to allow users to switch roles in the console. Below the summary, the 'Permissions' tab is active, showing a message: 'Get started with permissions. This role doesn't have any permissions yet. Get started by attaching one or more policies to this role. Learn more.' There are two buttons: 'Attach policies' and '+ Add inline policy', with the latter being highlighted by a mouse cursor. The 'Permissions boundary (not set)' section is also visible.

Copy and paste the following policy into the "JSON" tab, then click on "**Review policy**":

```
{
  "Version": "2012-10-17",
  "Statement": {
    "Effect":
"Allow",
    "Action": [
      "iam:GetRole",
      "iam:CreateRole",
      "iam:PutRolePolicy",
      "iam:ListRolePolicies"
    ],
    "Resource":
"arn:aws:iam::*:role/Ubidots_813028286946"
  }
}
```



Visual editor **JSON**

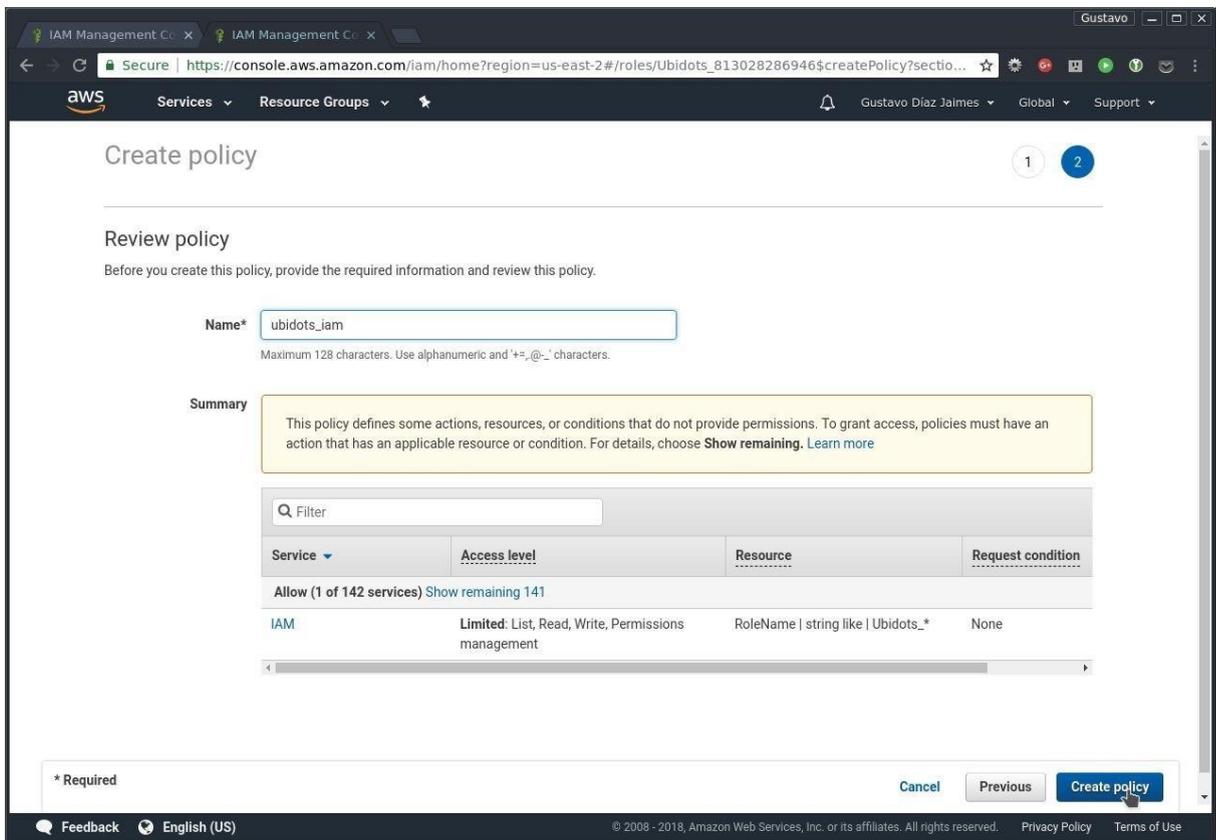
```

1 {
2   "Version": "2012-10-17",
3   "Statement": {
4     "Effect": "Allow",
5     "Action": [
6       "iam:GetRole",
7       "iam:CreateRole",
8       "iam:PutRolePolicy",
9       "iam:ListRolePolicies"
10    ],
11    "Resource": "arn:aws:iam::*:role/Ubidots_813028286946"
12  }
13 }

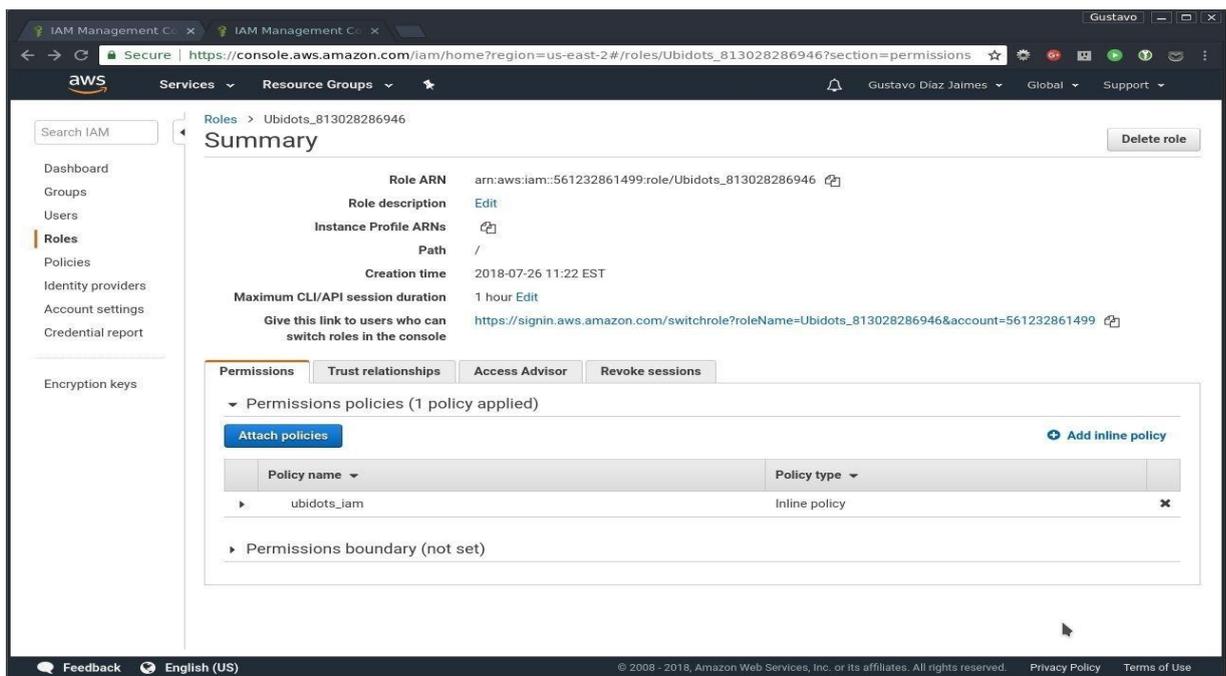
```

Give a name to your policy, then click on **“Create Policy”**. Please note the name must be **“ubidots_iam”**:

Mandatory inline policy name: “ubidots_iam”



You should see the inline policy “ubidots_iam” successfully created:



Repeat the same process to create another “Inline policy”. This time, copy and paste the following policy into the “JSON” tab, then click on “**Review policy**”:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "VisualEditor0",
      "Effect": "Allow",
      "Action": [
        "iot:ReplaceTopicRule",
        "iot:DisableTopicRule",
        "iot:GetTopicRule",
        "iot:EnableTopicRule",
        "iot:CreateTopicRule",
        "iot:List*"
      ],
      "Resource": "arn:aws:iot:*:*:rule/Ubidots_*"
    },
    {
      "Sid": "VisualEditor1",
      "Effect": "Allow",
      "Action": [
        "iot:List*",
        "iot:Update*"
      ],
      "Resource": "*"
    }
  ]
}
```

Give a name to your policy, then click on “**Create Policy**”. Please note the name in this case must be “**aws_iot_core_read_policy**”:

Mandatory inline policy name: “ **aws_iot_core_read_policy**”

You’ve now successfully configured your IAM Role. Finally, copy the IAM Role URL:

aws Services Resource Groups Kinesis IoT Core Global Support

Search IAM Roles > Ubidots_xxxx Delete role

Summary

Role ARN: [arn:aws:iam::114364703195:role/Ubidots_xxxx](#)

Role description: [Edit](#)

Instance Profile ARNs: [-](#)

Path: /

Creation time: 2018-09-06 10:50 EST

Maximum CLI/API session duration: 1 hour [Edit](#)

Give this link to users who can switch roles in the console: https://signin.aws.amazon.com/switchrole?roleName=Ubidots_xxxx&account=114364703195

Permissions Trust relationships Access Advisor Revoke sessions

Permissions policies (2 policies applied)

[Attach policies](#) [Add inline policy](#)

Policy name	Policy type	
ubidots_iam	Inline policy	✕
ubidots_iot	Inline policy	✕

Permissions boundary (not set)

3- Enter your IAM Role URL in Ubidots

In your Ubidots account, go to “Data” → “Plugins”, then click on “Create Data Plugin”:

ubidots Device Management Users Apps Reports

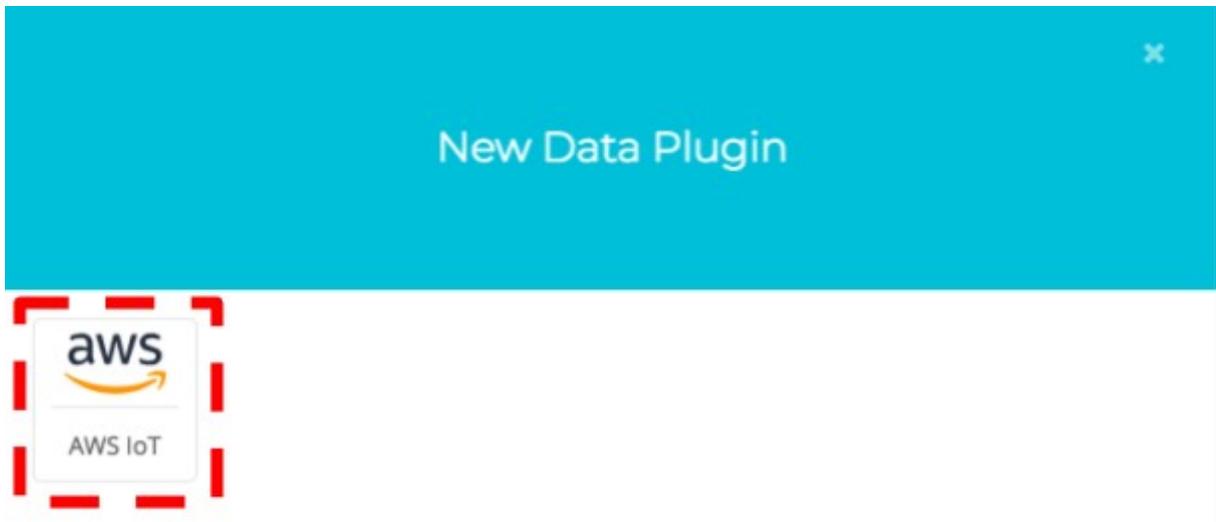
Data Plugins

Data Plugins

Extend the data sourcing capabilities of Ubidots

[Create Data Plugin](#)

Select AWS IoT:



Click on "Connect" to link your AWS account with Ubidots:



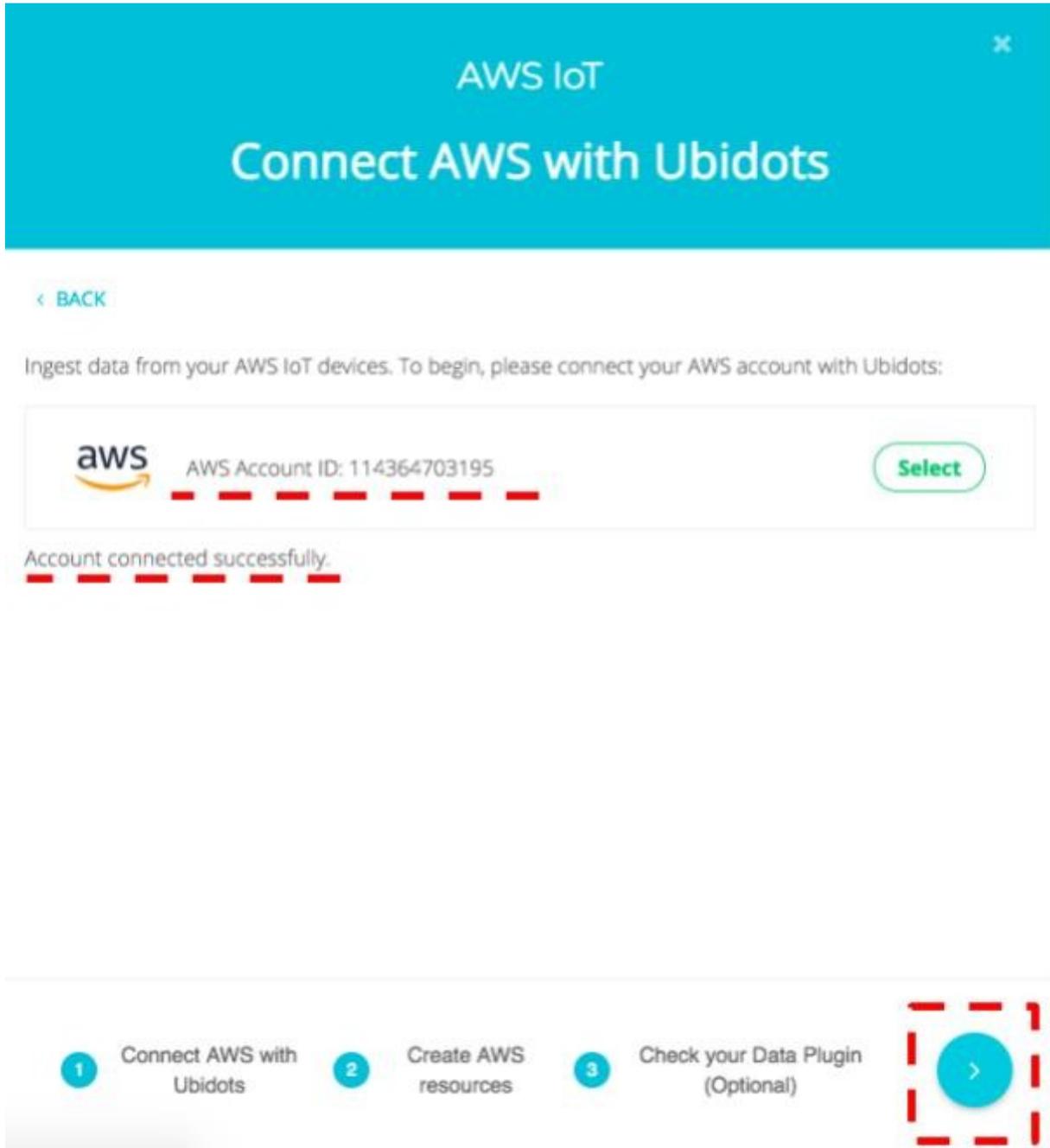
An authorization screen will appear. Scroll down and select the option "**Connect using IAM Roles**":



Enter your IAM Role URL then click on **“Check Role”**:



After a successful handshaking between Ubidots and AWS, the authorization screen will disappear and you'll be back to your Ubidots account, where the message “**Account connected successfully**” will appear, along with the AWS Account you just connected to Ubidots. At this point, you're ready to [continue creating your AWS Data Plugin](#).



AWS IoT

Connect AWS with Ubidots

[← BACK](#)

Ingest data from your AWS IoT devices. To begin, please connect your AWS account with Ubidots:

 AWS Account ID: 114364703195 [Select](#)

Account connected successfully.

- 1 Connect AWS with Ubidots
- 2 Create AWS resources
- 3 Check your Data Plugin (Optional)

