IAM LS -- Moving Data Between S3 and EC2 Instances

Pre-Requisite

- 1. Create an IAM role with S3 read and write access.
- 2. Create an EC2 instance with the above role
- 3. Access the data in the S3 from EC2.

1. Create an IAM role with S3 read and write access.

Grant S3 permission to EC2

Create a new IAM role

Choose "IAM" in the AWS main console:



Cognito

GuardDuty

Inspector

Amazon Macie 2

AWS Single Sign-On

Certificate Manager

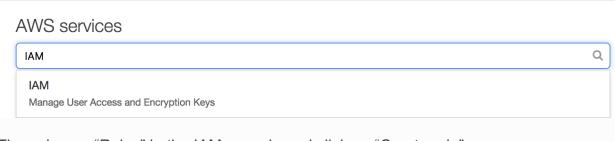
CloudHSM

Directory Service

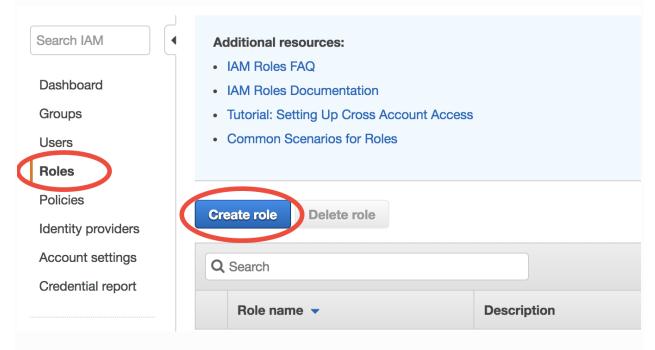
WAF & Shield

Artifact

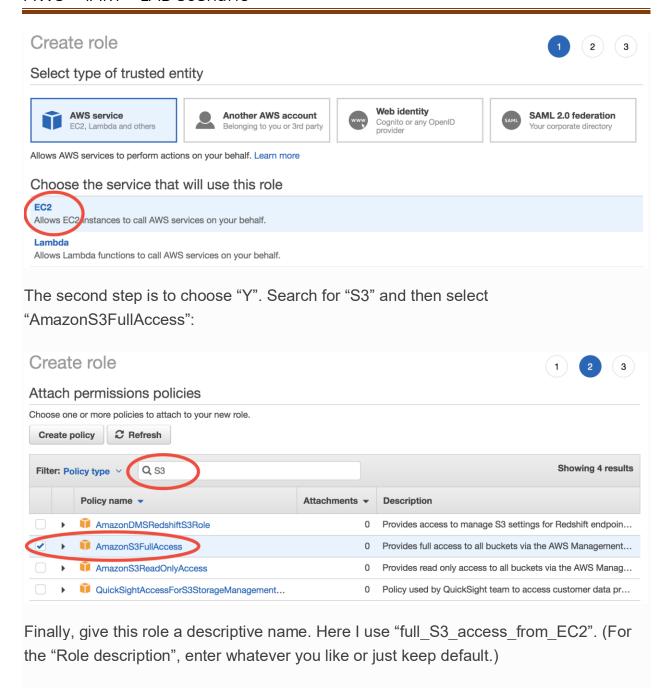
It can also be searched from the top search bar, so you don't have to look through hundreds of AWS services:

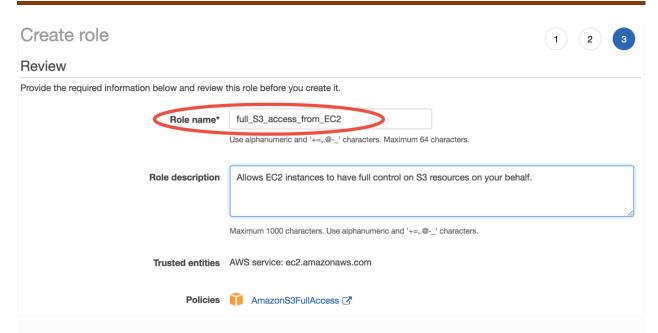


Then choose "Roles" in the IAM console and click on "Create role":



The first step is to choose "X" (which will be allowed to access "Y"). AWS calls it "trusted entity". Select EC2, of course.





Now a new IAM role is created. This only needs to be done once.

Assign that role to EC2

Whenever you launch a new EC2 instance, in "Step 3: Configure Instance Details", select the IAM role you created previously for the "IAM role" option.

2. Create an EC2 instance with the above role

1. Choose AMI	2. Choose Instance Type	3. Configure Instance		4. Add Storage	5. Add Tags	6. Confi	igure Security Group	7. Review
•	onfigure Instand stance to suit your requirer			nultiple instances	from the same Al	VII, reque	est Spot instances to	take advantage
	Number of instances	per of instances (i) 1				Launch into Auto Scaling Group (i)		
	Purchasing option	(i)	☐ Request Spot instances					
	Network	3 (default)		†	C Create new VPC	Create new VPC		
Subnet No preference (default subnet in any Availability Zon						Create new subr	Create new subnet	
	Auto-assign Public IP	i	Use subnet se	etting (Enable)		*		
	IAM role	(i)	full_S3_acces	ss_from_EC2		†	Create new IAM	role
NI I (.	. (l d	C		12				-00
	o touch other op				st launch a	as usi	ual. On this b	±C2
ilistalice, y	ou don't need	toru	aws cor	ifigure,				
and comm	ands like aws sa	3 ls V	vill just wo	ork (as Ion	g as AWS	CLI is	installed)	
This is act	ually a better pr	actice	since yo	ou never ty	pe your se	curity	credentials	on this
server (wh	ich might he sto	olen if	VOUR SEE	ver aets ha	icked)			

```
[root@ip-172-31-26-222 ec2-user]# aws s3 cp s3://b15-bucket001/Index.html index.html
download: s3://b15-bucket001/Index.html to ./index.html
[root@ip-172-31-26-222 ec2-user]# ls
file1 fold1 index.html
```

The above command is to download the file from S3 bucket

```
[root@ip-172-31-26-222 ec2-user]# aws s3 cp file1 s3://b15-bucket001
upload: ./file1 to s3://b15-bucket001/file1
```

\$ aws s3 cp <local filename> s3://<<bucketname>>

This is to upload the file to s3 bucket.