



Create Endpoint

A VPC endpoint enables you to securely connect your VPC to another service.

There are three types of VPC endpoints – Interface endpoints, Gateway Load Balancer endpoints, and gateway endpoints.

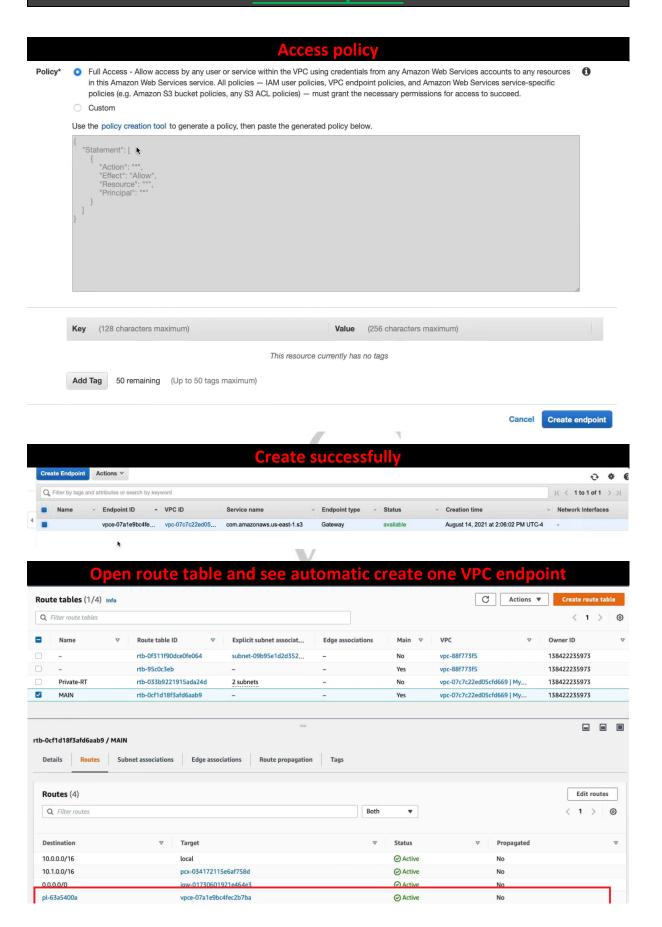
Interface endpoints and Gateway Load Balancer endpoints are powered by AWS PrivateLink, and use an elastic network interface (ENI) as an entry point for traffic destined to the service. Interface endpoints are typically accessed using the public or private DNS name associated with the service, while gateway endpoints and Gateway Load Balancer endpoints serve as a target for a re your route table for traffic destined for the service.

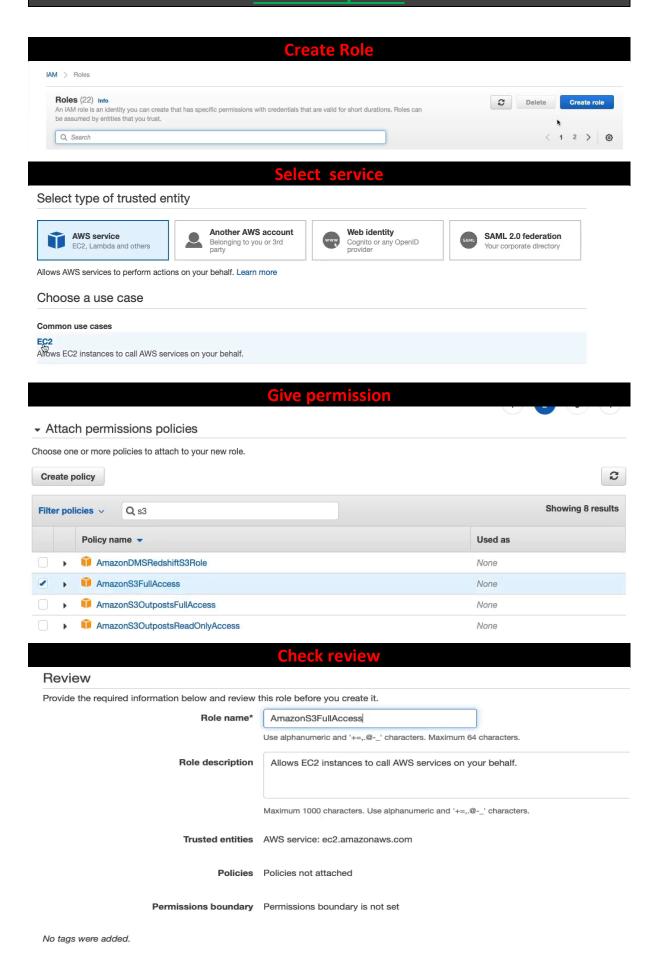
> Service category AWS services Find service by name Your AWS Marketplace services

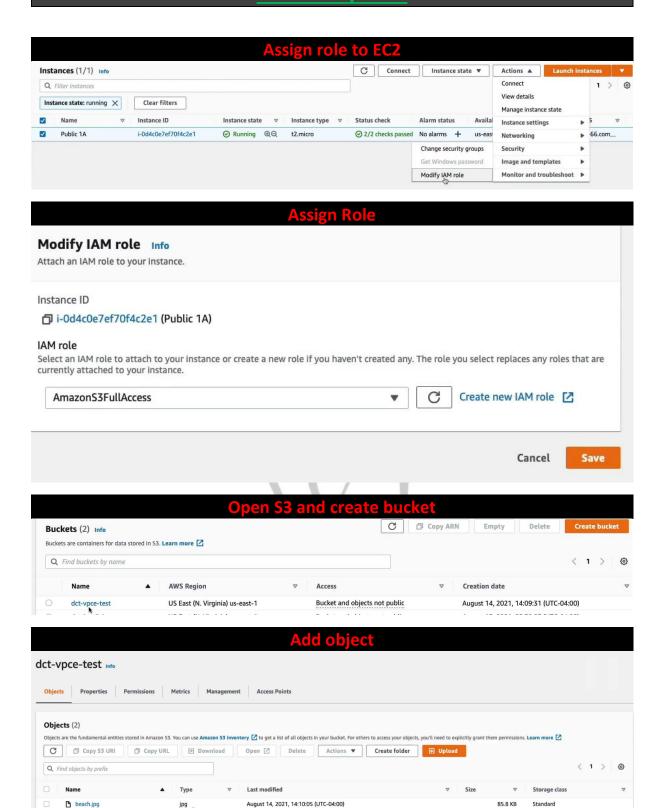
Service Name com.amazonaws.us-east-1.s3



VPC* vpc-07c7c22ed05cfd669 - C 0 Configure route tables A rule with destination pi-63a5400a (com.amazonaws.us-east-1.s3) and a target with this endpoints' ID (e.g. vpce-12345678) will be added to the route tables you select below. Subnets associated with selected route tables will be able to access this endpoint. rtb-0cf1d18f3afd6aab9 Route Table ID Associated With rtb-0cf1d18f3afd6aab9 2 subnets Warning When you use an endpoint, the source IP addresses from your instances in your affected subnets for accessing the AWS service in the same region will be private IP addresses, not public IP addresses. Existing connections from your affected subnets to the AWS service that use public IP addresses may be dropped. Ensure that you don't have critical tasks running when you create or modify an endpoint.







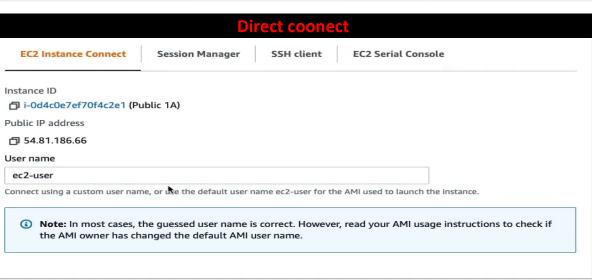
August 14, 2021, 14:10:03 (UTC-04:00)

mountain.jpg

47.9 KB

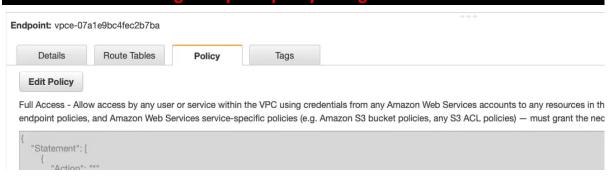
Standard

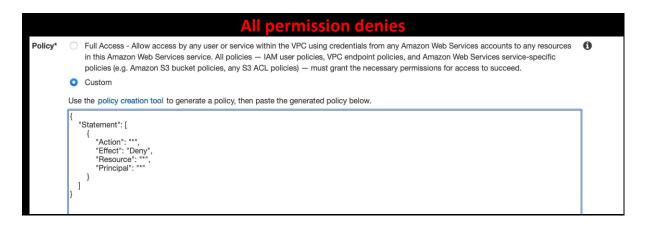




Cancel Connect

If Change Endpoint policy change then cheeked





```
See access denied

[ec2-user@ip-10-0-1-159 ~]$ aws s3 ls s3://dct-vpce-test

An error occurred (AccessDenied) when calling the ListObjectsV2 operation: Access Denied

[ec2-user@ip-10-0-1-159 ~]$ aws s3 ls

An error occurred (AccessDenied) when calling the ListBuckets operation: Access Denied

[ec2-user@ip-10-0-1-159 ~]$
```

Allows me to access S3 services even if I give full permissions to the Endpoint and deny permissions to the S3 Bucket

ACCESS FULL PERMISSION

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Full Access - Allow access by any user or service within the VPC using credentials from any Amazon Web Services accounts to any resources
in this Amazon Web Services service. All policies — IAM user policies, VPC endpoint policies, and Amazon Web Services service-specific
policies (e.g. Amazon S3 bucket policies, any S3 ACL policies) — must grant the necessary permissions for access to succeed.

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O Custom

Use the policy creation tool to generate a policy, then paste the generated policy below.

Click bucket permissio Amazon S3 Amazon S3 > dct-vpce-test **Buckets** dct-vpce-test Info Access Points Object Lambda Access Points Objects **Properties** Permissions Metrics Management **Access Points Batch Operations** Access analyzer for S3 **Permissions overview**



Permission deny

Edit bucket policy Info

Bucket policy

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more

Policy examples 🔼

Policy generator 🔼

Bucket ARN

arn:aws:s3:::dct-vpce-test

Policy

```
1-{ I
      "Version": "2012-10-17",
2
      "Id": "Policy1415115909152",
4 *
      "Statement": [
5 -
          "Sid": "Access-to-specific-VPCE-only",
6
          "Principal": "*",
          "Action": "s3:*",
"Effect": "Deny",
 8
9
10 -
          "Resource": ["arn:aws:s3:::dct-vpce-test",
                        "arn:aws:s3:::dct-vpce-test/*"],
11
          "Condition": {
12 -
            "StringNotEquals": {
13 -
               "aws:sourceVpce": "vpce-07a1e9bc4fec2b7ba"
14
15
            }
16
17
        }
18
      ]
   }
19
20
```

See I denied in bucket policy but access it because endpoint

```
[ec2-user@ip-10-0-1-159 ~]$ aws s3 ls
2021-08-14 18:09:31 dct-vpce-test
2021-08-13 09:30:23 dctcloudlabs.com
[ec2-user@ip-10-0-1-159 ~]$ aws s3 ls s3://dct-vpce-test
2021-08-14 18:10:05 87853 beach.jpg
2021-08-14 18:10:03 49064 mountain.jpg
[ec2-user@ip-10-0-1-159 ~]$ ■
```

it means I am getting access from endpoint not bucket

If I had not configured the endpoints, and then denied the bucket permissions, I would not have been allowed to access S3 →see result without Endpoint configure result

→ Code aws s3 ls
2021-08-14 14:09:31 dct-vpce-test
2021-08-13 05:30:23 dctcloudlabs.com
→ Code aws s3 ls s3://dct-vpce-test

An error occurred (AccessDenied) when calling the ListObjectsV2 operation: Access Denied
→ Code

If I delete the endpoint, the entry will be deleted from the route table automatically.



