


[S3, Route 53 & DNS](#)

Ques 1:- Static website hosting using S3 (index page, error page)

Ans 1:- First we have to create the Bucket in the S3

<input type="checkbox"/> Bucket name ▾	Access ⓘ ▾	Region ▾	Date created ▾
<input type="checkbox"/>  t34ak	Public	US East (N. Virginia)	Feb 27, 2020 10:40:50 PM GMT+0530

Then we have to give the permissions to the bucket for making everything public

Static website hosting

Endpoint : <http://t34ak.s3-website-us-east-1.amazonaws.com>

☒ Use this bucket to host a website ⓘ [Learn more](#)

Index document ⓘ

Error document ⓘ

Redirection rules (optional) ⓘ

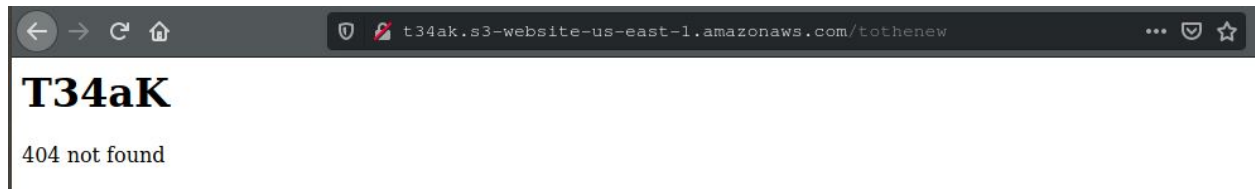
Just paste the s3 bucket url in browser it will loads up the file



T34aK

This is the center

If we type any anonymous url then it will show the error page



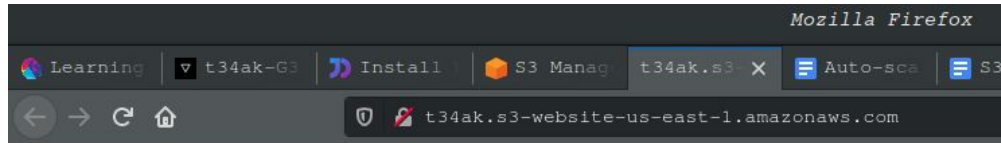
Ques 2:- create an assumed role to access s3 using EC2.

Ans 2:-

Ques 3:-Block s3 access on the basis of
On basis IP-Address

Ans 3:- first we have to add and edit the Bucket policy

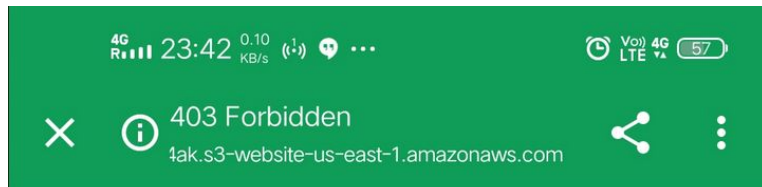
```
{
  "Version": "2012-10-17",
  "Id": "VPCE and SourceIP",
  "Statement": [
    {
      "Sid": "VPCE and SourceIP",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:*",
      "Resource": [
        "arn:aws:s3:::t34ak",
        "arn:aws:s3:::t34ak/*"
      ],
      "IpAddress": {
        "aws:SourceIp": "103.83.127.16"
      }
    }
  ]
}
```



T34aK

This is the center

Picture of a mobile which is on another network



403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: D1DE25FE63413376
- HostId: urxrNsTOapdc+hcuk3Ly+lrZQzd3iY4+Jc0xFsmzdX/xkECeGik7vWUxZHjiFQBg

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
- Message: Access Denied

On basis presign URL

To create the presign url first we have to generate and download the credentials of the account

Users > t34ak-presign

Summary

Delete user ⓘ

User ARN: [arn:aws:iam::187632318301:user/t34ak-presign](#) ⓘ
Path: /
Creation time: 2020-02-28 21:09 UTC+0530

Permissions Groups (1) Tags (2) Security credentials Access Advisor

▼ Permissions policies (1 policy applied)

[Add permissions](#) [Add inline policy](#)

Policy name ▼	Policy type ▼
Attached from group	
▶ AmazonS3FullAccess	AWS managed policy from group t34ak-presign ✕
▶ Permissions boundary (not set)	

Users > t34ak-presign

Summary

Delete user ⓘ

User ARN: [arn:aws:iam::187632318301:user/t34ak-presign](#) ⓘ
Path: /
Creation time: 2020-02-28 21:09 UTC+0530

Permissions Groups (1) Tags (2) Security credentials Access Advisor

Sign-in credentials

Summary • User does not have console management access

Console password: Disabled | [Manage](#)
Assigned MFA device: Not assigned | [Manage](#)
Signing certificates: None

Access keys

Use access keys to make secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation. [Learn more](#)

[Create access key](#)

Access key ID	Created	Last used	Status
AKIASXL6B65OV5DXHQ54	2020-02-28 21:09 UTC+0530	2020-02-28 21:16 UTC+0530 with s3 in N/A	Active Make inactive ✕

Now on console first we have to do aws configure to set our credentials

```
fahad@fahad ~/Downloads (master*)
➤ aws configure
AWS Access Key ID [*****HQ54]:
AWS Secret Access Key [*****tojD]:
Default region name [None]:
Default output format [None]:
```

Now we have to generate the url by
aws s3 presign s3://t34ak1/t34ak.html

```
fahad@fahad ~/Downloads (master*)
➤ aws s3 presign s3://t34ak1/t34ak.html
https://t34ak1.s3.amazonaws.com/t34ak.html?AWSAccessKeyId=AKIASXL6B650V5DXHQ54&Signature=0A2t7vknbQKsxy0d9dwGpERiWg8%3D&Expires=1582909048
```

On basis of domain

Ques 3:-

Ans 3:-

First we have to create the RDS subnet then we have to make the db

RDS > Subnet groups > t34ak-db

t34ak-db

Subnet group details		
VPC ID	t34ak (vpc-01d9bca1ea53fde9)	
ARN	arn:aws:rds:us-east-1:187632318301:subgrp:t34ak-db	
Description	this is for RDS	

Subnets (2)		
Availability zone	Subnet ID	CIDR block
us-east-1f	subnet-0db4ee75a0ba389d	10.0.48.0/20
us-east-1a	subnet-07c3a2631f7eb2d6f	10.0.194.0/24

RDS > Create database

Create database


Choose a database creation method [Info](#)


☒ **Standard Create**
You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☐ **Easy Create**
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


Engine options


Engine type [Info](#)


☐ Amazon Aurora


☐ MySQL


☒ MariaDB


☐ PostgreSQL


☐ Oracle


☐ Microsoft SQL Server


Settings

DB instance identifier [Info](#)
Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

t34ak-db

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ **Credentials Settings**

Master username [Info](#)
Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter

☒ **Auto generate a password**
Amazon RDS can generate a password for you, or you can specify your own password

Now we have to specify the DB size
And storage specifications and choose the vpc
and the subnets that we make

DB instance size

DB instance class [Info](#)

Choose a DB instance class that meets your processing power and memory requirements. The DB instance class options below are limited to those supported by the engine you selected above.

☒ Standard classes (includes m classes)

☐ Memory Optimized classes (includes r and x classes)

☐ Burstable classes (includes t classes)

db.m5.xlarge

4 vCPUs 16 GiB RAM EBS: 3500 Mbps

▼

☐ Include previous generation classes

Storage

Storage type [Info](#)

General Purpose (SSD) ▼

Allocated storage

20

▲ ▼

GiB

(Minimum: 20 GiB, Maximum: 65536 GiB) Higher allocated storage [may improve](#) IOPS performance.

ⓘ Provisioning less than 100 GiB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Learn more](#) [↗](#)

Storage autoscaling [Info](#)

Provides dynamic scaling support for your database's storage based on your application's needs.

☒ Enable storage autoscaling

Enabling this feature will allow the storage to increase once the specified threshold is exceeded.

Maximum storage threshold [Info](#)

Charges will apply when your database autoscales to the specified threshold

1000

▲ ▼

GiB

Minimum: 21 GiB, Maximum: 65536 GiB

Availability & durability

Multi-AZ deployment [Info](#)

☒ Do not create a standby instance

☐ Create a standby instance (recommended for production usage)

Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

Connectivity

Virtual Private Cloud (VPC) [Info](#)

VPC that defines the virtual networking environment for this DB instance.

t34ak (vpc-01d9bca1ea53fdce9)

▼

Only VPCs with a corresponding DB subnet group are listed.

Now we have to specify the subnet and the vpc

Subnet group [Info](#)
DB subnet group that defines which subnets and IP ranges the DB instance can use in the VPC you selected.

t34ak-db ▼

Publicly accessible [Info](#)

☒ **Yes**
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

☐ **No**
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
Choose one or more RDS security groups to allow access to your database. Ensure that the security group rules allow incoming traffic from EC2 instances and devices outside your VPC. (Security groups are required for publicly accessible databases.)

☒ **Choose existing**
Choose existing VPC security groups

☐ **Create new**
Create new VPC security group

Existing VPC security groups

Choose VPC security groups ▼

t34ak-security-group X

Availability zone [Info](#)

us-east-1b ▼

Database port [Info](#)
TCP/IP port the database will use for application connections.

3306 ▲ ▼


Ques 4:-Mount S3 to an EC2 instance
Ans 4:- first we have to create the ec2 instance

AWS Services Resource Groups fahad.khan@tothenew.com @ ... N. Virginia Support

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 7: Review Instance Launch
Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details [Edit AMI](#)

 **Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-07ebfd5b3428b6f4d**
Free tier eligible
Ubuntu Server 18.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups [Edit security groups](#)

Security group name: launch-wizard-203
Description: launch-wizard-203 created 2020-02-28T16:11:18.967+05:30

Type	Protocol	Port Range	Source	Description
This security group has no rules				

Instance Details [Edit instance details](#)

[Cancel](#) [Previous](#) [Launch](#)

Now we have to ssh to that instance and install the following dependencies:-

```
sudo apt-get install automake autotools-dev fuse g++ git  
libcurl4-gnutls-dev libfuse-dev libssl-dev libxml2-dev make pkg-config
```

```
root@ip-10-0-14-175: ~  
File Edit View Search Terminal Help  
root@ip-10-0-14-175:~# sudo apt-get install automake autotools-dev fuse g++ git libcurl4-gnutls-dev libfuse-dev libssl-dev libxml2-dev make pk  
g-config  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
fuse is already the newest version (2.9.7-1ubuntu1).  
git is already the newest version (1:2.17.1-1ubuntu0.5).  
git set to manually installed.  
The following additional packages will be installed:  
  autoconf binutils binutils-common binutils-x86-64-linux-gnu build-essential  
  cpp cpp-7 dpkg-dev fakeroot g++-7 gcc gcc-7 gcc-7-base glibc-harfbuzz-0.0  
  icu-devtools libalgorithm-diff-perl libalgorithm-diff-xs-perl  
  libalgorithm-merge-perl libasan4 libatomic1 libbinutils libc-dev-bin  
  libc6-dev libc6-i386 libcurl4-gnutls-dev libcurl4-openssl-dev libfakeroot  
  libfile-fcntllock-perl libgcc-7-dev libglib2.0-bin libglib2.0-dev  
  libglib2.0-dev-bin libgomp1 libgraphite2-3 libgraphite2-dev libharfbuzz-dev  
  libharfbuzz-gobject0 libharfbuzz-icu0 libharfbuzz0b libicu-dev  
  libicu-le-hb-dev libicu-le-hb0 libicu60 libisl19 libitm1 liblsan0 libmpc3  
  libmpx2 libpcre16-3 libpcre3-dev libpcre32-3 libpcrecpp0v5 libquadmath0  
  libselinux1-dev libsepol1-dev libstdc++7-dev libtsan0 libubsan0  
  linux-libc-dev m4 manpages-dev python3-distutils python3-lb2to3 zlib1g-dev  
Suggested packages:  
  autoconf-archive gnu-stardocs autoconf-doc libtool gettext binutils-doc  
  cpp-doc gcc-7-locales debian-keyring g++-multilib g++-7-multilib gcc-7-doc  
  libstdc++6-7-dbg gcc-multilib flex bison gdb gcc-doc gcc-7-multilib  
  libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg libasan4-dbg  
  liblsan0-dbg libtsan0-dbg libubsan0-dbg libcurl4-gnutls-dev libidn11-dev  
  libquadmath0-dbg glibc-doc libcurl4-gnutls-dev libidn11-dev libkrb5-dev  
  libldap2-dev librtmp-dev libssh2-1-dev bzip2 libglib2.0-doc  
  libgraphite2-utils icu-doc libssl-doc libstdc++7-doc m4-doc make-doc  
The following NEW packages will be installed:  
  autoconf automake autotools-dev binutils binutils-common
```

Clone s3fs source code from git

```
root@ip-10-0-14-175:~# git clone https://github.com/s3fs-fuse/s3fs-fuse.git  
Cloning into 's3fs-fuse'...  
remote: Enumerating objects: 40, done.  
remote: Counting objects: 100% (40/40), done.  
remote: Compressing objects: 100% (32/32), done.  
remote: Total 5879 (delta 18), reused 22 (delta 8), pack-reused 5839  
Receiving objects: 100% (5879/5879), 3.53 MiB | 20.40 MiB/s, done.  
Resolving deltas: 100% (4069/4069), done.  
root@ip-10-0-14-175:~#
```

Now change to source code directory, and compile and install the code with the following commands:

```
cd s3fs-fuse  
./autogen.sh  
./configure --prefix=/usr --with-openssl
```

make

sudo make install

```
root@ip-10-0-14-175:~# cd s3fs-fuse
root@ip-10-0-14-175:~/s3fs-fuse# ./autogen.sh
--- Make commit hash file -----
--- Finished commit hash file ---
--- Start autotools -----
configure.ac:30: installing './compile'
configure.ac:26: installing './config.guess'
configure.ac:26: installing './config.sub'
configure.ac:27: installing './install-sh'
configure.ac:27: installing './missing'
src/Makefile.am: installing './depcomp'
parallel-tests: installing './test-driver'
--- Finished autotools -----
root@ip-10-0-14-175:~/s3fs-fuse# ./configure --prefix=/usr --with-openssl
checking build system type... x86_64-pc-linux-gnu
checking host system type... x86_64-pc-linux-gnu
checking target system type... x86_64-pc-linux-gnu
checking for a BSD-compatible install... /usr/bin/install -c
```

```
root@ip-10-0-14-175:~/s3fs-fuse# sudo make
make all-recursive
make[1]: Entering directory '/home/ubuntu/s3fs-fuse'
Making all in src
make[2]: Entering directory '/home/ubuntu/s3fs-fuse/src'
g++ -DHAVE_CONFIG_H -I. -I.. -D_FILE_OFFSET_BITS=64 -I/usr/include/fuse -I/usr/include/x86_64-linux-gnu -I/usr/include/libxml2 -g -O2 -Wall -D_FILE_OFFSET_BITS=64 -D_FORTIFY_SOURCE=2 -MT s3fs.o -MD -MP -MF .deps/s3fs.Tpo -c -o s3fs.o s3fs.cpp
mv -f .deps/s3fs.Tpo .deps/s3fs.Po
g++ -DHAVE_CONFIG_H -I. -I.. -D_FILE_OFFSET_BITS=64 -I/usr/include/fuse -I/usr/include/x86_64-linux-gnu -I/usr/include/libxml2 -g -O2 -Wall -D_FILE_OFFSET_BITS=64 -D_FORTIFY_SOURCE=2 -MT curl.o -MD -MP -MF .deps/curl.Tpo -c -o curl.o curl.cpp
```

```
root@ip-10-0-14-175:~/s3fs-fuse# make install
Making install in src
make[1]: Entering directory '/home/ubuntu/s3fs-fuse/src'
make[2]: Entering directory '/home/ubuntu/s3fs-fuse/src'
/bin/mkdir -p '/usr/bin'
```

Next step is to get the access key and secret key through AWS console

We first have to go to the IAM

Then we have to find the user

Then we have to generate the secret key and download it to the local host

Users > fahad.khan@tothenew.com

Summary

User ARN: `arn:aws:iam::187632318301:user/fahad.khan@tothenew.com`
 Path: `/`
 Creation time: 2020-02-19 16:33 UTC+0530

[Delete user](#) [?](#)

[Permissions](#) [Groups \(1\)](#) [Tags](#) [Security credentials](#) [Access Advisor](#)

Sign-in credentials

Summary • Console sign-in link: <https://itn-newers.signin.aws.amazon.com/console>

Console password Enabled (last signed in Today) | [Manage](#)
Assigned MFA device Not assigned | [Manage](#)
Signing certificates None [✎](#)

Access keys

Use access keys to make secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation. [Learn more](#)

[Create access key](#)

Access key ID	Created	Last used	Status
AKIASXL6B65OVVRAFJWN	2020-02-28 16:37 UTC+0530	N/A	Active Make inactive ✕

Create a new file in /etc with the name passwd-s3fs and Paste the access key and secret key.

```
root@ip-10-0-14-175: ~/s3fs-fuse# cat /etc/passwd-s3fs
AKIASXL6B65OVVRAFJWN: IZ3zzTPm7u6hJ5xHVFmP4nRw3LjYuyTrfU5+/yDM
root@ip-10-0-14-175: ~/s3fs-fuse#
```

Now change the permission of file.
 chmod 640 /etc/passwd-s3fs

```
root@ip-10-0-14-175: ~/s3fs-fuse# vim /etc/passwd-s3fs
Files
root@ip-10-0-14-175: ~/s3fs-fuse# chmod 640 /etc/passwd-s3fs
```

Now create a directory or provide the path of an existing directory and mount S3bucket in it.

```
s3fs t34ak -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002
-o multireq_max=5 /t34akbucket
```

Now we have to make the entry of this in the rc.local so that it will be mounted on every restart

```
root@ip-10-0-14-175:~/s3fs-fuse# s3fs t34ak -o use_cache=/tmp -o allow_other -o uid=1001 -o mp_umask=002 -o multireq_max=5 /t34akbucket
root@ip-10-0-14-175:~/s3fs-fuse# nano /etc/rc.local
```

Now we have to check the mounted bucket by `df -Th t34akbucket` command

```
root@ip-10-0-14-175:~/s3fs-fuse# df -Th t34akbucket
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/xvda1      ext4   7.7G  1.6G  6.2G  21% /
```

It shows that it is mounted on the system

Ques 5.what is parameter group and option group

Ans5. option group-

Amazon RDS uses option groups to enable and configure these features. An option group can specify features, called options, that are available for a particular Amazon RDS DB instance. ... When you associate a DB instance with an option group, the specified options and option settings are enabled for that DB instance.

Parameter group-

DB parameter groups act as a container for engine configuration values that are applied to one or more DB instances. A default DB parameter

group is created if you make a database instance without specifying a custom DB parameter group.

Ques 6. ACL, Bucket policy, IAM Policy.

Ans 6. Use IAM policies if:

- You need to control access to AWS services other than S3. IAM policies will be easier to manage since you can centrally manage all of your permissions in IAM, instead of spreading them between IAM and S3.
- You have numerous S3 buckets each with different permissions requirements. IAM policies will be easier to manage since you don't have to define a large number of S3 bucket policies and can instead rely on fewer, more detailed IAM policies.
- You prefer to keep access control policies in the IAM environment.

Use S3 bucket policies if:

- You want a simple way to grant cross-account access to your S3 environment, without using IAM roles.
- Your IAM policies bump up against the size limit (up to 2 kb for users, 5 kb for groups, and 10 kb for roles). S3 supports bucket policies of up to 20 kb.
- You prefer to keep access control policies in the S3 environment.

Use S3 bucket policies if:

As a general rule, AWS recommends using S3 bucket policies or IAM policies for access control. S3 ACLs is a legacy access control mechanism that predates IAM. However, if you already use S3 ACLs and you find them sufficient, there is no need to change.

An S3 ACL is a sub-resource that's attached to every S3 bucket and object. It defines which AWS accounts or groups are granted access and the type of access. When you create a bucket or an object, Amazon S3 creates a default ACL that grants the resource owner full control over the resource.

Ques 7:-Change content type using S3, PDF rendering and downloading.

Ans 7:-

Ques 8:-Retrieve previous version of S3, enable versioning.

Ans 8:- First we have to make a bucket then we have to

Amazon S3 > t34ak1

t34ak1

Overview Properties Permissions Management Access points

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions Versions Hide Show US East (N. Virginia)

Viewing 1 to 2			
<input type="checkbox"/> Name	Last modified	Size	Storage class
<input type="checkbox"/> error.html	Feb 28, 2020 9:16:09 PM GMT+0530	69.0 B	Standard
<input type="checkbox"/> t34ak.html	Feb 28, 2020 9:16:09 PM GMT+0530	74.0 B	Standard

Then we have to enable the versioning under properties tab

Amazon S3 > t34ak1

t34ak1

Overview Properties Permissions Management Access points

Versioning

Keep multiple versions of an object in the same bucket.

[Learn more](#)

☒ Enabled

Server access logging

Set up access log records that provide details about access requests.

[Learn more](#)

☐ Disabled

Static website hosting

Host a static website, which does not require server-side technologies.

[Learn more](#)

☒ Bucket hosting

Now to check the versioning is working or not we have to modify the **t34ak.html** page then re upload it.
Before uploading the modified version

Amazon S3 > t34ak1

t34ak1

Overview Properties Permissions Management Access points

Q Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions Versions Hide Show US East (N. Virginia)

Viewing 1 to 2

<input type="checkbox"/>	Name	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	error.html		Feb 28, 2020 9:16:09 PM		
<input type="checkbox"/>	Feb 28, 2020 9:16:09 PM (Latest version)	.nuYjgq1pUyzh9s9IQJ8vY8qwXOT_...		69.0 B	Standard
<input type="checkbox"/>	t34ak.html		Feb 28, 2020 9:16:09 PM		
<input type="checkbox"/>	Feb 28, 2020 9:16:09 PM (Latest version)	2PaANxrbTHkD0_pgx6MCrljJvMN...		74.0 B	Standard

Learn t34ak Insta Untit IAM M IAM M S3 Ma t34ak1 IAM M

t34ak1.s3-website-us-east-1.amazonaws.com

T34aK

This is the center

After editing and reuploading the **t34ak.html** page

The image shows two screenshots. The top screenshot is from the AWS S3 console, displaying the 't34ak1' bucket. It lists three files: 'error.html', 't34ak.html', and another 't34ak.html' file. The 't34ak.html' file is highlighted, showing its version ID, last modified date, size, and storage class. The bottom screenshot is a web browser showing the content of the 't34ak.html' file, which displays 'T34aK' and two lines of text: 'This is the center' and 'This is to check the new version of the file'.

Name	Version ID	Last modified	Size	Storage class
error.html		Feb 28, 2020 9:16:09 PM		
t34ak.html	ruYjg1pUyzn9s9QJ8vY8qwXOT...	Feb 28, 2020 11:25:04 PM	69.0 B	Standard
t34ak.html	fywITjLQNEvcD0_3VPVQVfibeRU...	Feb 28, 2020 11:25:04 PM	126.0 B	Standard
t34ak.html	2PaANsxbTh8D0_pgx6MCrijvMN...	Feb 28, 2020 9:16:09 PM	74.0 B	Standard

T34aK
This is the center
This is to check the new version of the file

We can see that the updated version is detected and the page is also updated

Ques 9:-S3 VPC endpoint

Ans 9:- To create the s3 ENDPOINT we have to go on VPC service under which we have to choose the create endpoint

Endpoints > Create Endpoint

Create Endpoint

A VPC endpoint allows you to securely connect your VPC to another service.
An interface endpoint is powered by [PrivateLink](#), and uses an elastic network interface (ENI) as an entry point for traffic destined to the service.
A gateway endpoint serves as a target for a route in 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 ⓘ

Add filter < 1 to 1 of 1 >

Service Name	Owner	Type
<input checked="" type="radio"/> com.amazonaws.us-east-1.s3	amazon	Gateway


VPC* vpc-01d9bca1ea53dce9 ⓘ

Configure route tables A rule with destination `pl-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.

Route Table ID	Main	Associated With
<input type="checkbox"/> rtb-0373d7dd0792f888	No	subnet-0dba4ee75a08a389d t34ak-private
<input checked="" type="checkbox"/> rtb-0b022abe431ead1fa	Yes	7 subnets
<input type="checkbox"/> rtb-0c580c7690f56ec5e	No	subnet-062a1eaac2378ac86 t34ak-public

Then we have to select the s3 service of which we have to make the endpoint

Now we are going to provide the full access to the policy for the ENDPOINT.

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

☐ Custom

Use the [policy creation tool](#) to generate a policy, then paste the generated policy below.

```
{
  "Statement": [
    {
      "Action": "*",
      "Effect": "Allow",
      "Resource": "*",
      "Principal": "*"
    }
  ]
}
```

Key (128 characters maximum)	Value (256 characters maximum)
Owner	Fahad 
Purpose	endpoint 

EPOINT si created now

[Endpoints](#) > Create Endpoint

Create Endpoint

✓ The following VPC Endpoint was created:

VPC Endpoint ID `vpce-01f65a2ea54671df1`

Close

Ques 10:-CORS, enable CORS for a specific website

Ans 10:-CORS(Cross Origin Resource Sharing) is a way in which the applications that are loaded in one domain to interact with resources in a different domain.

To enable CORS we have to go to the bucket then we have to go to the permissions tab then select the CORS configuration

Now we have to specify the policy and in this policy i have listed that from origin is allowed from anywhere so it can access GET POST DELETE request from anywhere.

```
<CORSConfiguration xmlns="http://s3.amazonaws.com/doc/2006-03-01/">
<CORSRule>
    <AllowedOrigin>*</AllowedOrigin>
    <AllowedMethod>PUT</AllowedMethod>
    <AllowedMethod>POST</AllowedMethod>
    <AllowedMethod>DELETE</AllowedMethod>
    <AllowedHeader>*</AllowedHeader>
</CORSRule>
</CORSConfiguration>
```

t34ak1

- Overview
- Properties
- Permissions
- Management
- Access points

- Block public access
- Access Control List
- Bucket Policy
- CORS configuration

CORS configuration editor ARN: arn:aws:s3:::t34ak1

Add a new cors configuration or edit an existing one in the text area below.

- Delete
- Cancel
- Save

```
1 <CORSConfiguration>
2 <CORSRule>
3   <AllowedOrigin>*/AllowedOrigin>
4
5   <AllowedMethod>PUT</AllowedMethod>
6   <AllowedMethod>POST</AllowedMethod>
7   <AllowedMethod>DELETE</AllowedMethod>
8
9   <AllowedHeader>*</AllowedHeader>
10 </CORSRule>
11 </CORSConfiguration>
12
```