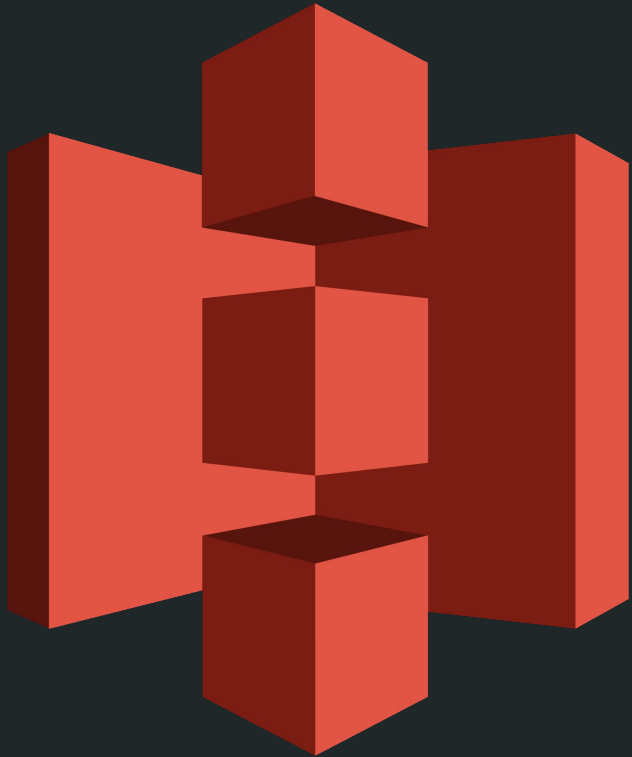





AWS-S3 гарын авлага





S3 -Simple Storage Service (SSS)



S3 нь Object-based буюу
бүх төрлийн файл хадгалахад
зориулсан веб сервисийн
үйлчилгээ юм.



AWS руу нэвтэрч орсны дараа:


 Services [Option+S]


   Tokyo 


Console Home [Info](#)

Reset to default layout [+ Add widgets](#)


 Introducing the new widget Applications. Find it at the bottom of your Console Home. 


 **Recently visited** [Info](#)


 S3


 IAM

[View all services](#)

 **Welcome to AWS**

[Getting started with AWS](#)
Learn the fundamentals and find valuable information to get the most out of AWS.

[Training and certification](#)
Learn from AWS experts and advance your skills and knowledge.

[What's new with AWS?](#)
Discover new AWS services, features, and Regions.

S3 service pyy opox:

The screenshot displays the AWS Management Console interface. At the top, the AWS logo and 'Services' menu are visible. A search bar at the top center contains the text 's3' and is highlighted with a red rectangle. Below the search bar, the search results for 's3' are displayed. The left sidebar shows the 'Amazon S3' section with various links like 'Buckets', 'Access Points', and 'Storage Lens'. The main content area is titled 'Search results for 's3'' and is divided into two sections: 'Services' and 'Features'. The 'Services' section is highlighted with a red rectangle and lists 'S3' (Scalable Storage in the Cloud), 'S3 Glacier' (Archive Storage in the Cloud), 'Athena' (Query Data in S3 using SQL), and 'AWS Snow Family' (Large Scale Data Transport). The 'Features' section lists 'Amazon S3 File Gateway' and 'Storage Gateway feature'. On the right side, there is a 'View Storage Lens dashboard' button and a 'Create bucket' button. The bottom of the page shows the URL 'https://s3.console.aws.amazon.com/s3/home?region=ap-southeast-1' and the footer with copyright information and links for Privacy, Terms, and Cookie preferences.

aws Services 🔍 s3

Amazon S3

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Multi-Region Access Points

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Search results for 's3'

Services [See all 8 results ▶](#)

S3 ☆
Scalable Storage in the Cloud

Top features
[Buckets](#) [Access points](#) [Batch Operations](#)

S3 Glacier ☆
Archive Storage in the Cloud

Athena ☆
Query Data in S3 using SQL

AWS Snow Family ☆
Large Scale Data Transport

Features [See all 14 results ▶](#)

Amazon S3 File Gateway

[View Storage Lens dashboard](#)

[Delete](#) [Create bucket](#)


< 1 > ⚙️

22, 19:11:41 (UTC+08:00)



[Settings](#)

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S3 руу орсны дараа:

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Learn how to effectively use the S3 Storage Classes.

Learn more



Amazon S3 > Buckets


Account snapshot


Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (1) Info

 Copy ARNEmptyDeleteCreate bucket

< 1 > 

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	it302-example	Asia Pacific (Tokyo) ap-northeast-1	 Public	November 26, 2022, 19:11:41 (UTC+08:00)

Feedback

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S3 - Bucket үүсгэх



Алхам 1. Bucket үүсгэх

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Learn how to effectively use the S3 Storage Classes. Learn more

Amazon S3 > Buckets

Account snapshot

Storage lens provides visibility into storage usage and activity trends. Learn more

View Storage Lens dashboard

Buckets (1) Info

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Refresh

Copy ARN

Empty

Delete

Create bucket

< 1 > Settings

	Name	AWS Region	Access	Creation date
<input type="radio"/>	it302-example	Asia Pacific (Tokyo) ap-northeast-1	Public	November 26, 2022, 19:11:41 (UTC+08:00)

Алхам 2. General Configuration хэсгийг бөглөх

aws

Services

Search

[Option+S]

Global

altankhuu

Amazon S3 > Buckets > Create bucket

Create bucket [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

myawsbucket

Bucket name must be globally unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

AWS Region

Asia Pacific (Singapore) ap-southeast-1

Copy settings from existing bucket - *optional*

Only the bucket settings in the following configuration are copied.

Choose bucket

Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

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Алхам 3. Default утгуудыг дагаж сонгох

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Object Ownership

Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

ACLs enabled

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

Block public access to buckets and objects granted through new access control lists (ACLs)

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.

Block public access to buckets and objects granted through any access control lists (ACLs)

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Алхам 4. Default утгуудыг дагаж сонгох

 Services [Option+S]

  Global altankhuu

Bucket Versioning

Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. [Learn more](#)

Bucket Versioning

☒ Disable

☐ Enable

Tags (0) - optional

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption






☒ Disable

☐ Enable

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Алхам 5. Bucket үүслээ.

 Services [Option+S]   Global  altankhuu 

Tags (0) - optional

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

☒ Disable


☐ Enable

► Advanced settings

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel


Create bucket



S3 bucket permission тохируулах



Таны үүсгэсэн Bucket-ууд доорх хэсэгт харагдана.

 Services

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Amazon S3

×

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Amazon S3 > Buckets

Account snapshot

View Storage Lens dashboard

Buckets (1) Info

Refresh

Copy ARN


Empty

Delete

Create bucket

Find buckets by name

< 1 > ⚙

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	it302-example	Asia Pacific (Tokyo) ap-northeast-1	 Public	November 26, 2022, 19:11:41 (UTC+08:00)

Feedback

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Аль нэг bucket-ийг сонгож орсны дараа:

Amazon S3 ×

Buckets

- Access Points
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- Access analyzer for S3

Block Public Access settings for this account

▼ **Storage Lens**

- Dashboards
- AWS Organizations settings

Feature spotlight **3**

► AWS Marketplace for S3

Learn how to effectively use the S3 Storage Classes. Learn more × ?

Amazon S3 > Buckets > it302-example

it302-example Info

Publicly accessible

Objects Properties Permissions Metrics Management Access Points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)


Copy S3 URI Copy URL Download Open Delete Actions Create folder

Upload



< 1 >

<input type="checkbox"/>	Name ▲	Type ▼	Last modified ▼	Size ▼	Storage class ▼
<input type="checkbox"/>	Screen Shot 2022-11-26 at 3.39.22 PM.png	png	November 26, 2022, 19:52:30 (UTC+08:00)	3.4 MB	Standard

Bucket ruу access хийх PERMISSION тохируулна.

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Learn more

Amazon S3 > Buckets > it302-example

it302-example

Info

Publicly accessible

Objects

Properties

Permissions


Metrics

Management

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Permissions overview

Access

 Public

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Edit

https://s3.console.aws.amazon.com/s3/#

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Bucket Policy хэсгийг дараах байдлаар тохируулна.

Services

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AWS Marketplace for S3

Learn how to effectively use the S3 Storage Classes.

Learn more

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](#)

Edit

Delete

```
{
  "Version": "2012-10-17",
  "Id": "Policy1652028199134",
  "Statement": [
    {
      "Sid": "Stmt1652028196602",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:*",
      "Resource": "arn:aws:s3:::it302-example/*"
    }
  ]
}
```

Copy

Тухайн bucket-ийн нэрийг бичнэ.

CORS permission хэсгийг дараах байдлаар тохируулна.

aws

Services

Search

[Option+S]

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AWS Marketplace for S3

Learn how to effectively use the S3 Storage Classes.

Learn more

Cross-origin resource sharing (CORS)

The CORS configuration, written in JSON, defines a way for client web applications that are loaded in one domain to interact with resources in a different domain. [Learn more](#)

Edit

```
[
  {
    "AllowedHeaders": [
      "*"
    ],
    "AllowedMethods": [
      "PUT",
      "HEAD",
      "GET",
      "POST",
      "DELETE"
    ],
    "AllowedOrigins": [
      "*"
    ],
    "ExposeHeaders": [
      "ETag"
    ]
  }
]
```

Copy

Feedback

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S3 Bucket

UPLOAD, GET, DELETE files



Алхам 1. 'aws-sdk' сан суулгана.

```
import AWS from 'aws-sdk' 8.2M (gzipped: 924.3k)
```

```
const BUCKET_NAME = 'it302-example'  
const ACCESS_KEY_ID = 'AKIAU7W33FWJEMSTPLMN'  
const SECRET_ACCESS_KEY = 'yf1fY+fYF039BJVt861EofT9f+UcFgS4Y3JESxdp'  
const REGION = 'ap-northeast-1'
```

```
const config = new AWS.Config({  
  accessKeyId: ACCESS_KEY_ID,  
  secretAccessKey: SECRET_ACCESS_KEY,  
  region: REGION,  
})
```



```
const s3 = new AWS.S3(config)
```

Алхам 2. S3 bucket руу access хийхийн тулд дараах мэдээллүүдийг AWS-ээс авна.

```
import AWS from 'aws-sdk' 8.2M (gzipped: 924.3k)
```

```
const BUCKET_NAME = 'it302-example'  
const ACCESS_KEY_ID = 'AKIAU7W33FWJEMSTPLMN'  
const SECRET_ACCESS_KEY = 'yf1fY+fYF039BJVt861EofT9f+UcFgS4Y3JESxdp'  
const REGION = 'ap-northeast-1'
```

```
const config = new AWS.Config({  
  accessKeyId: ACCESS_KEY_ID,  
  secretAccessKey: SECRET_ACCESS_KEY,  
  region: REGION,  
})
```



```
const s3 = new AWS.S3(config)
```

**AWS access key-ийг
хэрхэн авах вэ?**



Алхам 1. Дараах алхмыг дагаж хийнэ үү.

The screenshot displays the AWS Management Console interface. In the top-left corner, the 'Services' menu is highlighted with a red box. The left sidebar contains a list of service categories, with 'Security, Identity, & Compliance' highlighted by a red box. The main content area shows the 'IAM' service selected, indicated by a red box and a red arrow pointing to it. The IAM service description includes 'Manage access to AWS resources'. Below this, the 'IAM Identity Center (successor to AWS Single Sign-On)' is listed. The right sidebar shows a 'Delete user' button and a help icon.

aws Services [Option+S]

Ident Mana

Database

Developer Tools

End User Computing

Front-end Web & Mobile

Game Development

Internet of Things

Machine Learning

Management & Governance

Media Services

Migration & Transfer

Networking & Content Delivery

Quantum Technologies

Robotics

Satellite

Security, Identity, & Compliance

Storage

AWS Firewall Manager
Central management of firewall rules

GuardDuty
Intelligent Threat Detection to Protect Your AWS Accounts and Workloads

☆ IAM
Manage access to AWS resources

IAM Identity Center (successor to AWS Single Sign-On)
Manage workforce user access to multiple AWS accounts and cloud applications

Inspector
Analyze Application Security

Key Management Service
Securely Generate and Manage AWS Encryption Keys

Amazon Macie
Amazon Macie classifies and secures your business-critical content.

AWS Network Firewall
AWS Network Firewall

Resource Access Manager
Share AWS resources with other accounts or AWS Organizations

privileged policy that you can attach to this user.

Delete user

tion code from an MFA device. You can assign a maximum of 8 MFA

Алхам 2. Алхам 1-г хийсний дараа дараах алхмыг дагаж хийнэ үү.

Identity and Access Management (IAM)

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)



New feature to generate a policy based on CloudTrail events.

AWS uses your CloudTrail events to identify the services and actions used and generate a least privileged policy that you can attach to this user.

Users > s3-bucket

Summary

Delete user



User ARN arn:aws:iam::342984699282:user/s3-bucket

Path /

Creation time 2022-11-26 19:26 UTC+0800

Permissions

Groups

Tags

Security credentials

Access Advisor

Sign-in credentials

Summary

- User does not have console management access

Console password

Disabled | [Manage](#)

Signing certificates

None

Multi-factor authentication (MFA)

Use MFA to increase the security of your AWS environment. Signing in with MFA requires an authentication code from an MFA device. You can assign a maximum of 8 MFA devices. [Learn more](#)

Алхам 3. Алхам 2-г хийсний дараа Access Key хэсэг гарч ирнэ.

Identity and Access Management (IAM)

Dashboard

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Analizers

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Credential report

Organization activity

Service control policies (SCPs)

Access keys

Use access keys to make programmatic calls to AWS from the AWS CLI, Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time.

For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation.

If you lose or forget your secret key, you cannot retrieve it. Instead, create a new access key and make the old key inactive. [Learn more](#)

Create access key

Access key ID	Created	Last used	Status	
AKIAU7W33FWJEMSTPLMN	2022-11-26 19:26 UTC+0800	2022-11-27 12:48 UTC+0800 with s3 in ap-northeast-1	Active	Make inactive ✕

SSH keys for AWS CodeCommit

Use SSH public keys to authenticate access to AWS CodeCommit repositories. [Learn more](#)

Upload SSH public key

SSH key ID	Uploaded	Status	
No results			

HTTPS Git credentials for AWS CodeCommit

Generate a user name and password you can use to authenticate HTTPS connections to AWS CodeCommit repositories. You can generate and store up to 2 sets of credentials. [Learn more](#)

**Хэрхэн S3 bucket руу
access хийж, файл upload,
get, delete үйлдэл хийх вэ?**



Алхам 1. Bucket руу access хийхэд 'aws-sdk' сангийн Config функцийг ашиглана.



```
import AWS from 'aws-sdk' 8.2M (gzipped: 924.3k)

const BUCKET_NAME = 'it302-example'
const ACCESS_KEY_ID = 'AKIAU7W33FWJEMSTPLMN'
const SECRET_ACCESS_KEY = 'yf1fY+fYF039BJVt861EofT9f+UcFgS4Y3JESxdp'
const REGION = 'ap-northeast-1'

const config = new AWS.Config({
  accessKeyId: ACCESS_KEY_ID,
  secretAccessKey: SECRET_ACCESS_KEY,
  region: REGION,
})

const s3 = new AWS.S3(config)
```

Алхам 2. Файл оруулахад 'aws-sdk' сангийн upload функцийг ашиглана.

```
const uploadToS3 = async (file: any, name: string) => {  
  return new Promise((resolve, reject) => {  
    const params = {  
      Bucket: BUCKET_NAME,  
      Key: name,  Файлын нэр  
      Body: file,  
    }  
    return  s3.upload(params, (err: any, data: any) => {  
      if (err) {  
        console.log(err, err.stack) // an error occurred  
        resolve('failed')  
        return  
      }  
      console.log(data.Location)  
      resolve(data.Location)  
    })  
  })  
}
```

Алхам 3. Файл авахад 'aws-sdk' сангийн getObject функцийг ашиглана.

```
const getFromS3 = async (imageName: string | undefined) => {  
  return new Promise((resolve) => {  
    const params = {  
      Bucket: BUCKET_NAME,  
      Key: imageName || '',  
    }  
    return s3.getObject(params, (err: any, data: any) => {  
      if (err) {  
        console.log(err.data)  
        resolve(undefined)  
        return  
      }  
      console.log('s3 get response', data.Body)  
      resolve(data.Body)  
    })  
  })  
}
```

Алхам 4. Файл устгахад 'aws-sdk' сангийн deleteObject функцийг ашиглана.

```
const deleteFromS3 = async (imageName: string) => {  
  const response = await getFromS3(imageName)  
  if (response) {  
    return new Promise((resolve) => {  
      const params = {  
        Bucket: BUCKET_NAME,  
        Key: imageName,  
      }  
      return s3.deleteObject(params, () => {  
        resolve('success')  
      })  
    })  
  } else {  
    return 'failed'  
  }  
}
```