

AMAZON SIMPLE STORAGE SERVICE (S3)

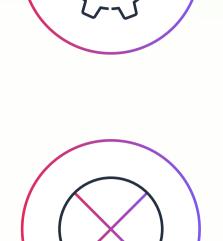
Configure and enforce granular access controls

At creation, all S3 buckets are private by default, with S3 Block Public Access enabled, access control lists (ACLs) disabled, and all new objects automatically encrypted. With S3 access management tools, you can grant access and define user and resource-based policies based on your needs.

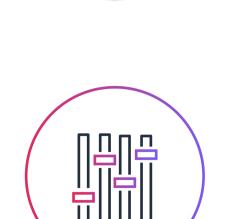
Amazon S3 default access management settings

S3 Block Public Access

Enabled by default for new buckets



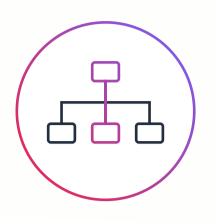
Block access to specific buckets or an entire AWS account



Overrides all public access policies

S3 Object Ownership

ACLs disabled by default for new buckets



Simplify cross-account workflows



Access control is based only on policies

Encryption in Amazon S3



Base level of encryption (SSE-S3) automatically applied to all new objects

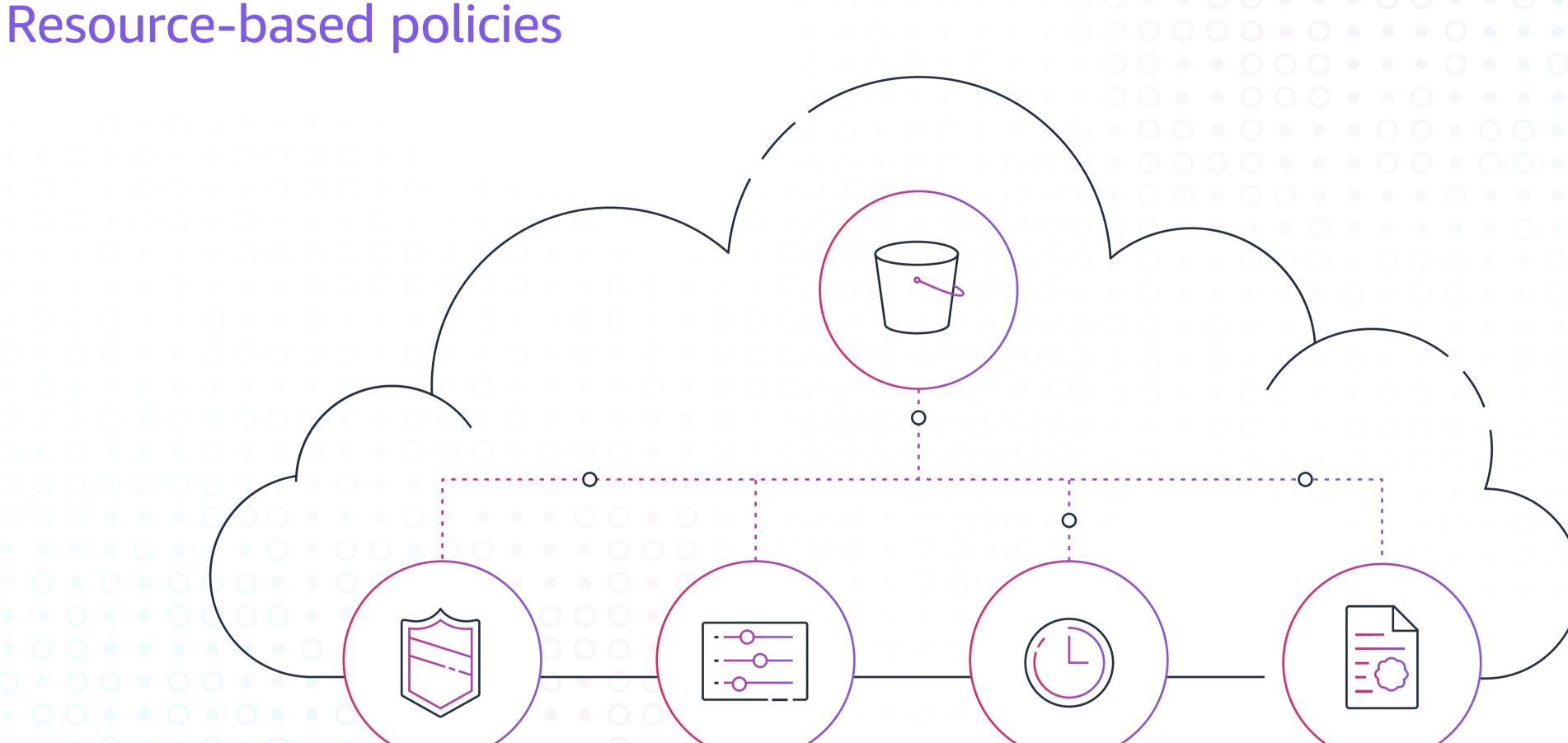


Four options for server-side encryption: SSE-S3, SSE-KMS, SSE-C, DSSE-KMS



Encrypt data server-side, client-side, and in transit to ensure strict access control

Create access policies for your S3 resources



Bucket Policies

Enforce access policies for objects in an S3 bucket.

Query String Authentication

Grant time-limited access to third parties with temporary URLs.

Access Control Lists (ACLs) ACLs are disabled by default for new buckets, with IAM

policies now recommended, but when enabled can allow you to define what users and accounts have read and/or write permissions at the object or bucket levels.

Manage access to your shared data sets on S3. Create

S3 Access Points

Access Points with permissions for each application or groups of applications, or limit access to a Virtual Private Cloud (VPC).

manage access only through policies.

Use S3 Object Ownership to disable ACLs and

Define and grant user access

User-based policies

AWS Identity and Access Management (IAM)

your AWS account



Set and manage guardrails and

fine-grained access controls

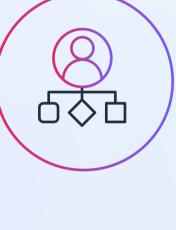
Create users, groups, and roles within



account activities

Use AWS CloudTrail to monitor

Virtual private cloud (VPC) endpoints

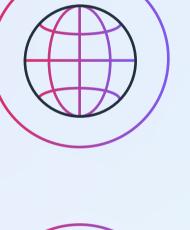


access your S3 resources

Provide specific access and permissions to

groups of users based on the network the

Allow any users in your virtual network to



user is connected to

Use VPC endpoints to deny bucket access

if the request doesn't originate from the



specified endpoint

Track who is accessing what data, from where, and when

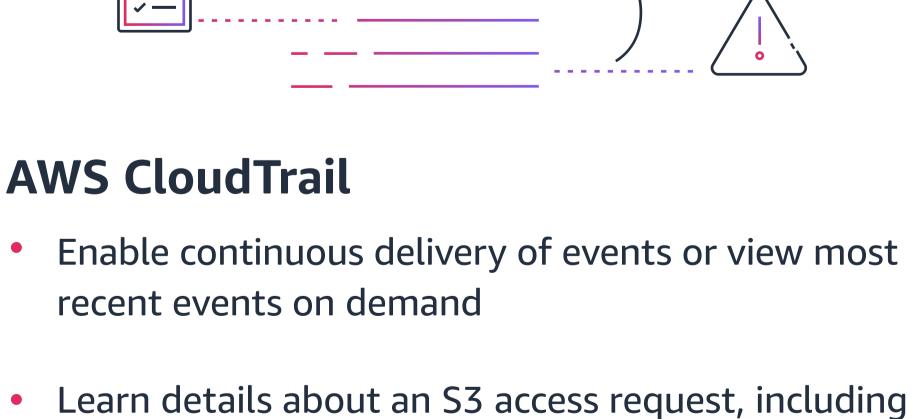


to anyone on the internet or other AWS customers Receive a report showing the source and level of public

or shared access of your buckets, at no cost

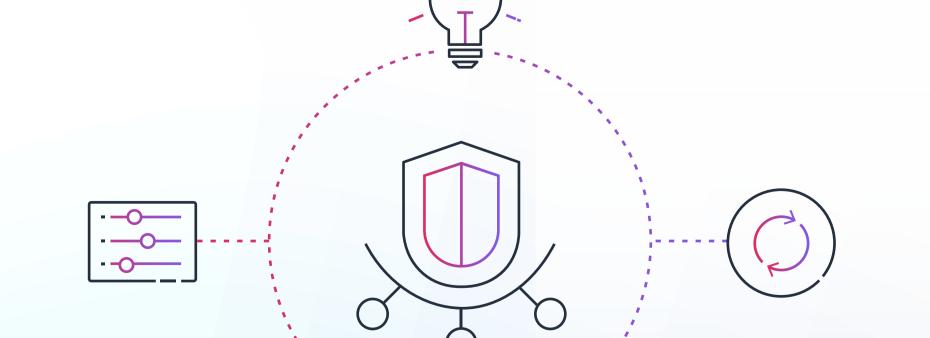
With one click, block all unintended public access to

- your bucket or drill down for granular levels of access



requester, IP address, time, and error codes

- Reports on actions taken by users, roles, and AWS services
- Includes calls from the S3 console and S3 APIs



- Check your existing bucket access configurations Fault tolerance checks for Amazon S3 buckets that don't
- have versioning enabled, or have versioning suspended Recommendations to help address security gaps

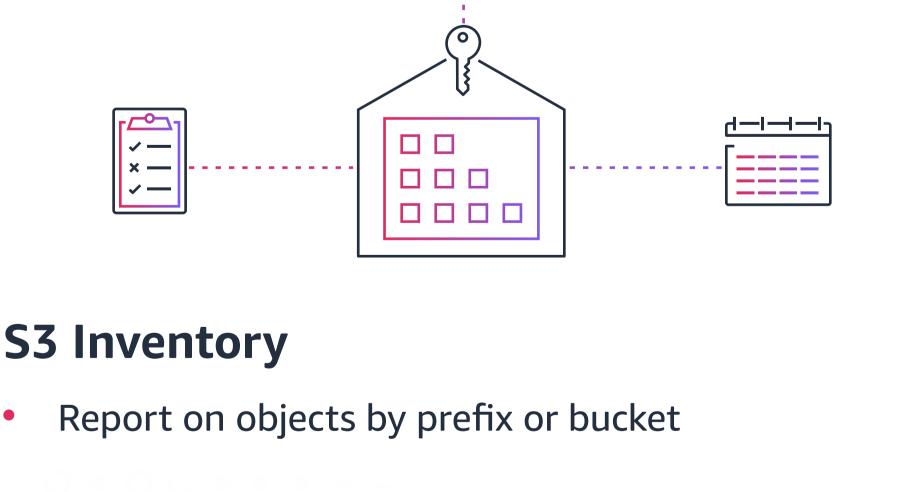
Receive detailed records of requests made to a bucket (and store them in S3)

S3 server access logging

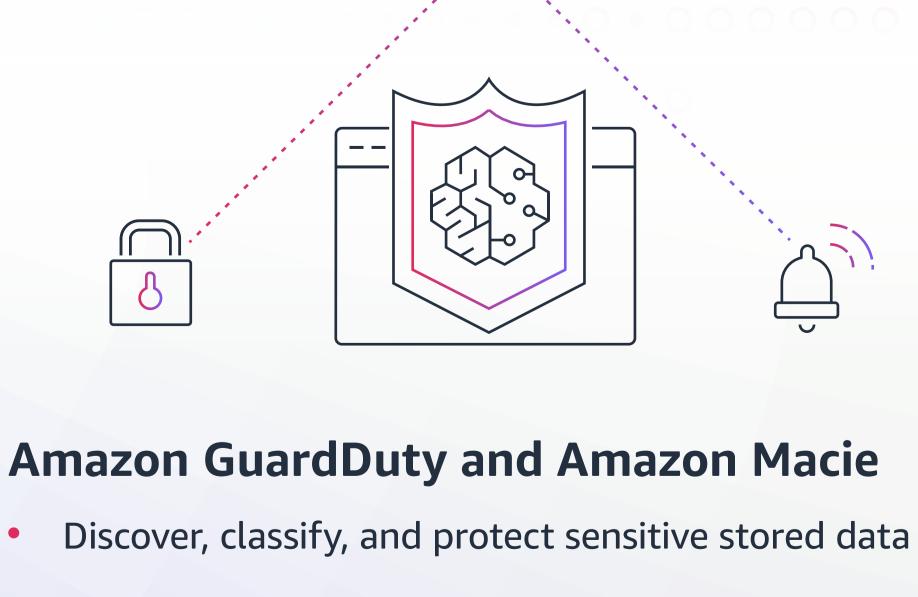
See requester, bucket name, request time, request action, and error codes

Access log information can be used to trigger S3 Event

Notifications or in access audits



- Audit object metadata, including encryption status Configure delivery of daily or weekly reports



- Protect your AWS accounts with intelligent threat detection
- actionable security findings

Evaluate bucket-level preventative controls and receive

Discover how to secure your data using Amazon S3

AWS Trusted Advisor

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