

AWS S3 – Buckets & Alerts

By: Eido Epstein

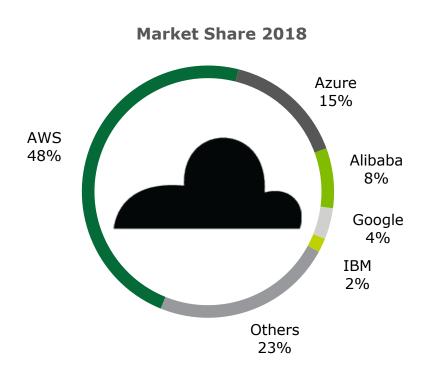
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# The Big Players

Market share & an introduction of the top two





- Estimated annual revenue run rate: 11B
- Growth rate Q3'19: 59%
- Top services: AppS, VMs, DevOps
- Windows & Linux compatible
- 12 months free



- Annual revenue '18:25.65B
- Growth rate Q3'19: 35%
- Top services: EC2, RDS,S3
- Highly customizable
- Free Trial option

## Amazon S3

## Introduction



"Provides developers and IT teams with safe secure object Storage". - AWS



- Durability
- Low cost
- Scalability
- Secured
- Availability
- Flexible



- UI
- Documentation
- Only static websites

Step by step process- creating a bucket

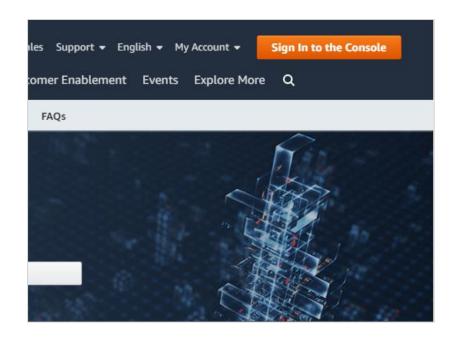


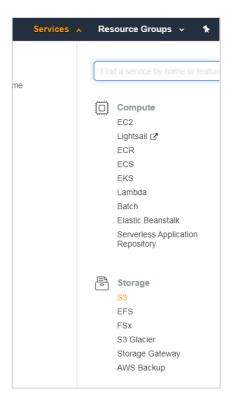
Go to <u>AWS S3</u> and press-"Sign in to the console". Following, input your credentials.



In your ACP, under the "Services" tab, go to "Storage", "S3".

Definition:
An object consists
of data, key
(assigned name)
and metadata.
A bucket stores
objects.

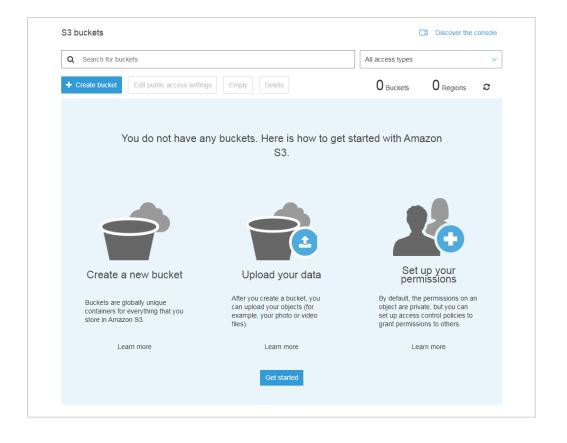




Step by step process- creating a bucket



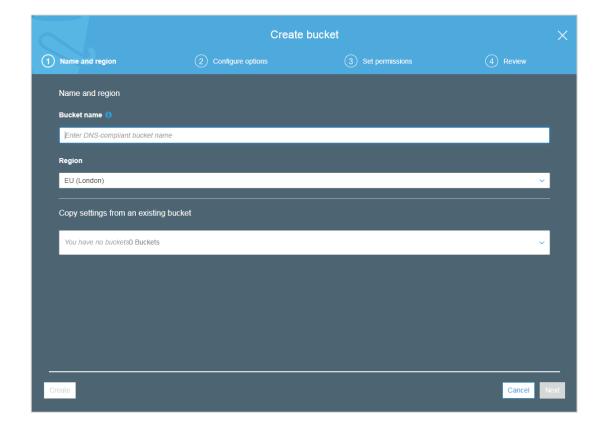
In the S3 Console, press on "Create Bucket".





"Create Bucket – Name and region"

- Bucket name
- Region

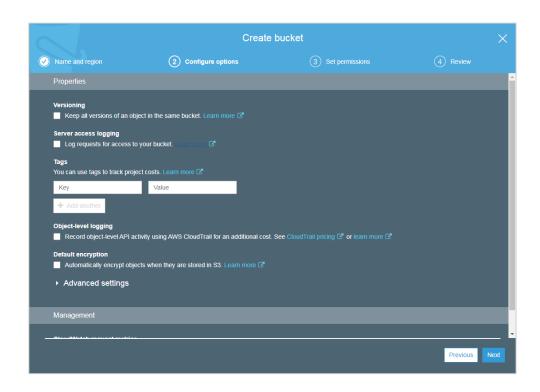


Step by step process- creating a bucket



"Create Bucket - Configure options"

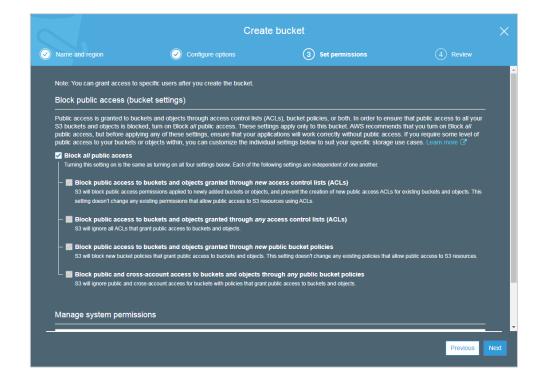
- Versioning
- Server access logging





"Create Bucket – Set permissions"

Block all public access

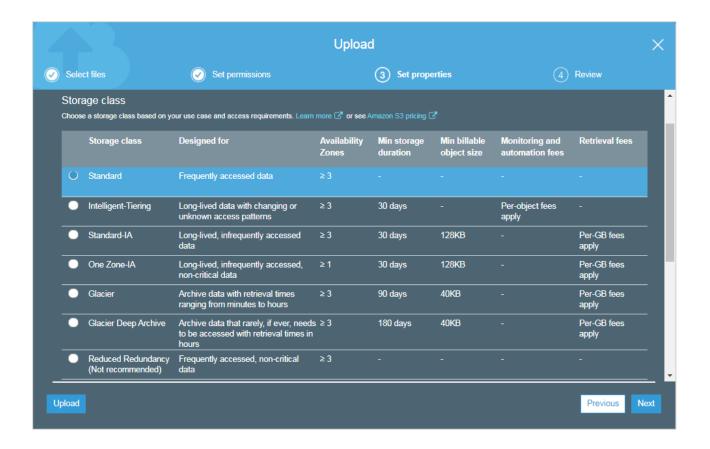


# Step by step process- adding data



"Bucket Name" → "Upload" → "Set properties"

- Standard
- Intelligent-Tiering
- Standard-IA
- One Zone-IA
- Glacier
- Glacier Deep Archive
- Reduced Redundancy

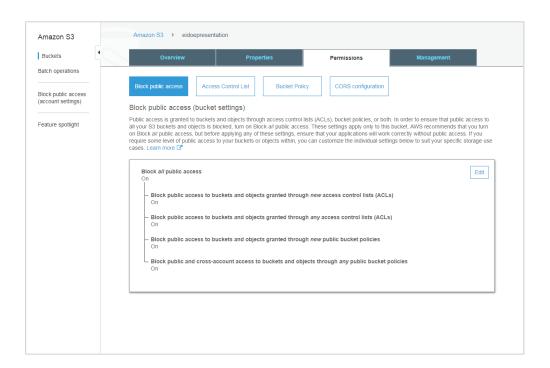


## Step by step process- permissions



"Permissions" tab → "Block public access"

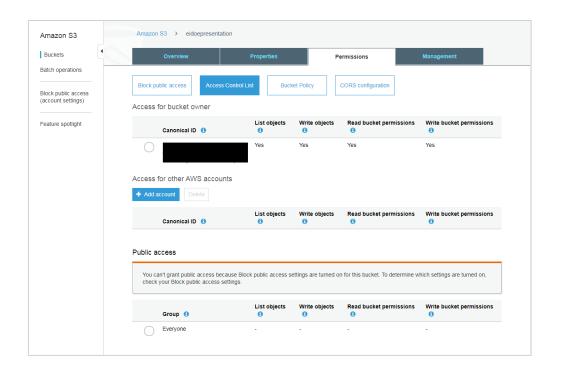
- New ACLs
- Any ACLs
- New public bucket policies
- Any public bucket policies (+CAA)





"Permissions" tab > "Access Control List"

- Bucket owner
- AWS accounts
- Public access
- S3 log delivery group

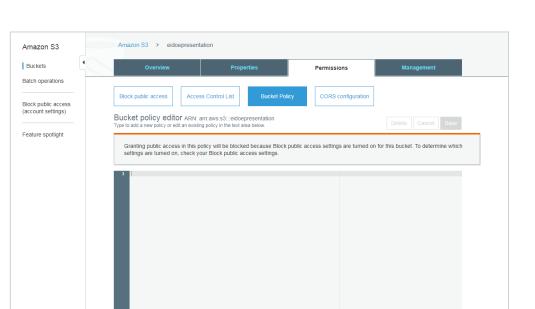


# Step by step process- permissions



"Permissions" tab → "Bucket Policy"

Policy generator (<u>link</u>)

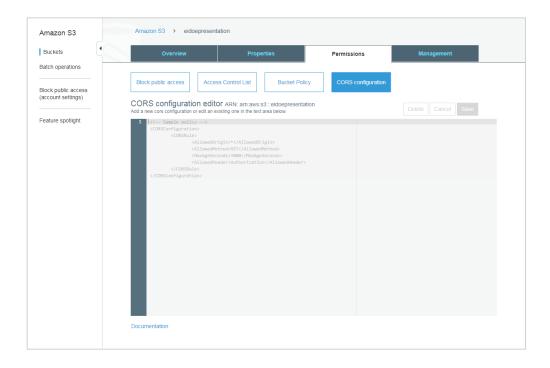


Documentation Policy generato



"Permissions" tab → "CORS configuration"

CORS configuration editor



Introduction



"An intelligent cloud scale manage threat detection service". - AWS

#### **Benefits**

- Simplicity
- Continuous Monitoring
- → Global Coverage
- ◆ Threat intelligence
- ◆ Threat Behavior
- Management Tools

#### **Threat Classes**

- Backdoor
- Behavior
- Crypto Currency
- >> Pen-test
- Recon
- ♦ Stealth
- >>> Trojan
- Unauthorized Access

### **Tools & Methods**

- Partners
- ◆ User Tools (API)
- Machine Learning
- Reconnaissance
- Instance Compromise
- Account Compromise

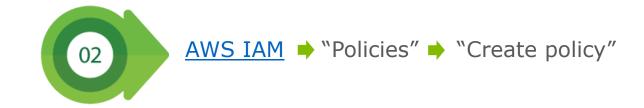
Alert notification- creating detection

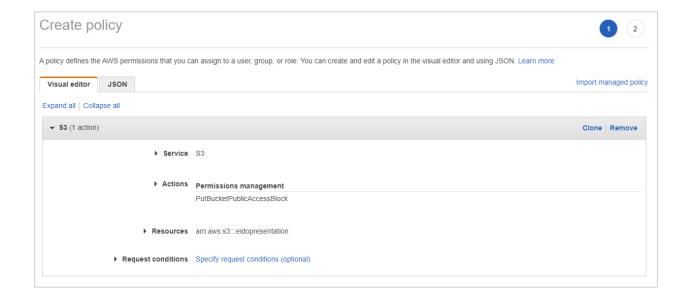


Go to <u>AWS GuardDuty</u> and press-"Start your free trial of Amazon GuardDuty".

Following, input your credentials if needed.

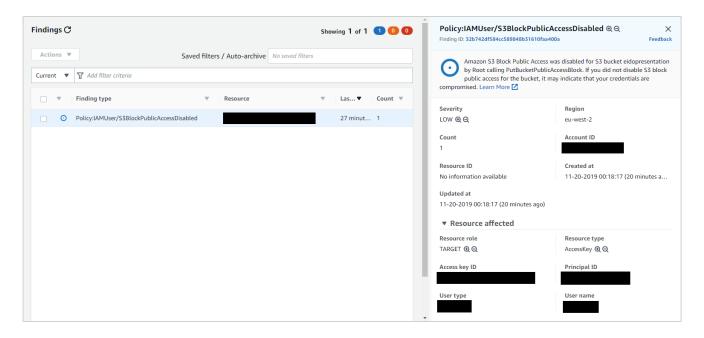






# Alert notification - creating a notification

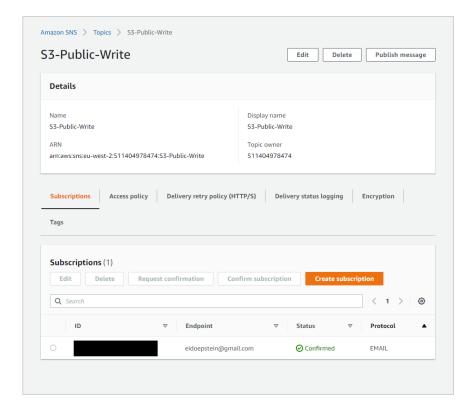






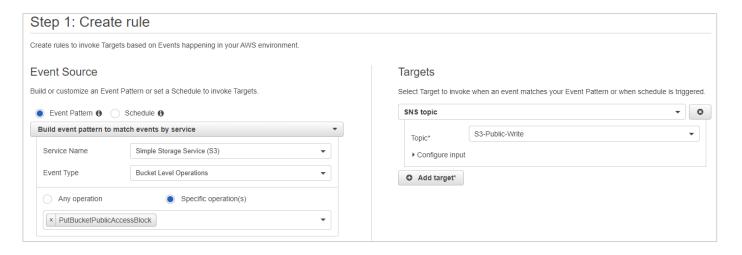
AWS SNS → "Topics" → "Create topic"

- Subscription
- S3 bucket event



Alert notification- creating mitigation

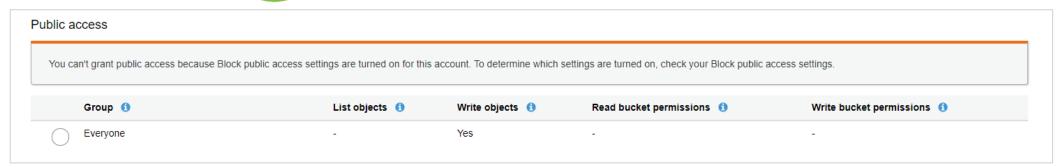


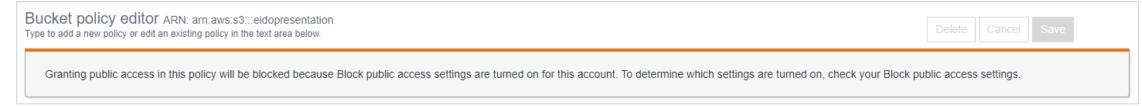




#### Alert notification- the result











# **AWS S3 – Buckets & Alerts**

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