

AWS – S3

April 2016

Ground Rules for Face-to-face Classrooms



Ground Rules for Virtual Classrooms

Participate actively in each session

Share experiences and best practices

Bring up challenges, ask questions

Discuss successes

Respond to whiteboards, polls, quizzes, chat boxes

Hang up if you need to take an urgent phone call, don't put this call on hold

Communicate professionally with others

Mute when you're not speaking

Wait for others to finish speaking before you speak

Each time you speak, state your name

Build on others' ideas and thoughts

Disagreeing is OK –with respect and courtesy

Be on time for each virtual session

As a best practice...be just a few minutes early!

Module at a Glance

SME to provide the details required in the table.

Target Audience:	
Course Level:	<i>Basic</i>
Duration (in hours):	30 mins
Pre-requisites, if any:	NA
Post-requisites, if any:	<i>Submit Session Feedback</i>
Relevant Certifications:	None

Introductions (for Virtual Classrooms)

SME to provide the
photos and names of
the facilitators.

Business Photo

Facilitator
Name
Role

Business Photo

Moderator
Name
Role

Course Map

- 1 What is S3?
- 2 What are S3 Essentials ?
- 3 S3 Basics
- 4 S3- Storage Tiers/Classes
- 5 S3 Pricing
- 6 Cloud Front

Module Objectives

Note to the SME : Please provide the module Objectives or validate the partially updated content



What you will learn

At the end of this module, you will learn:

- What is S3

What you will be able to do

At the end of this module, you be able to:

- Explain what is S3
- S3 Essentials , Basics
- Understand the S3 ,S3 – IA , S3- RR
- Describe S3 Pricing
- Describe Cloud Front



S3 Essentials - What is S3 ?



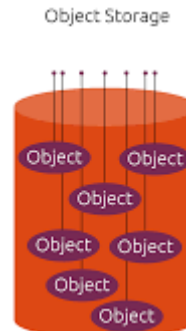
S3 provides developers and IT teams with secure, durable, highly-scalable object storage. Amazon S3 is easy to use, with a simple web services interface to store and retrieve any amount of data from anywhere on the web.

S3 Essentials

- S3 is a safe place to store your files .



- It is Object based Storage.



- The data is spread across multiple devices and facilities



S3- The Basics

S3 is object based i.e allows you to upload files .

Files can be from 1Byte to 5 TB

There is unlimited Storage .

Files are stored in Buckets

S3 is a Universal namespace , that is , names must be unique globally

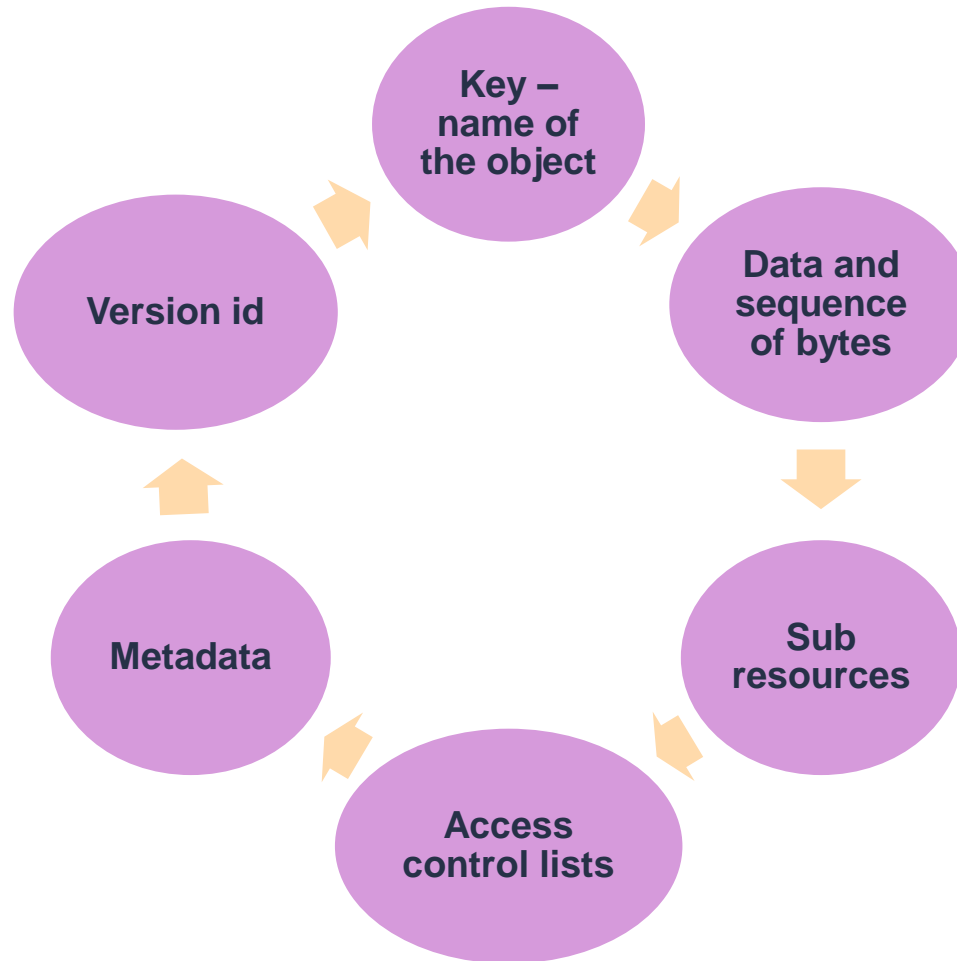
<https://s3-eu-west-1.amazonaws.com/acloudguru>

S3 – The Basics



- Read after Write consistency for PUTS of new Objects
- Eventual Consistency for overwrite PUTS and DELETES (can take time to propagate)

S3 is a simple key , value store



S3 Basics



99.9%



99.99999999999999%



Tiered Storage Available



S3 Basics



Lifecycle Management

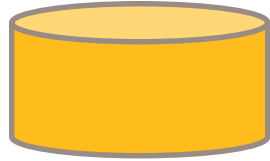


S3 Basics



Using Access Control Lists & Bucket Policies

S3 – Storage Tiers / Classes



S3

- 99.99 % availability, 99.9999999999% durability
- Redundant storage across multiple devices



S3 - IA

- Accessed less frequently, lower fee than S3



S3- RRS

- 99.99% availability, 99.99% durability over a given year



Glacier

- Very Cheap, used for Archival only

S3 –Storage Tiers/Classes

	Standard	Standard - Infrequent Access	Reduced Redundancy Storage
Durability	99.999999999%	99.999999999%	99.99%
Availability	99.99%	99.9%	99.99%
Concurrent facility fault tolerance	2	2	1
SSL support	Yes	Yes	Yes
First byte latency	Milliseconds	Milliseconds	Milliseconds
Lifecycle Management Policies	Yes	Yes	Yes

S3 - Charges

- **Charged for**
 - **Storage**
 - **Requests**
 - **Data transfer Pricing**

Cloud Front

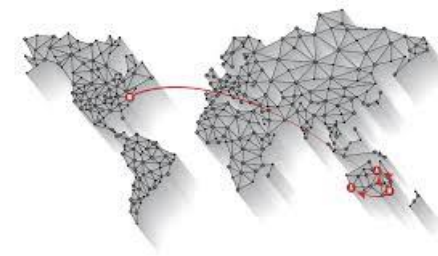


CDN – Content Delivery Network

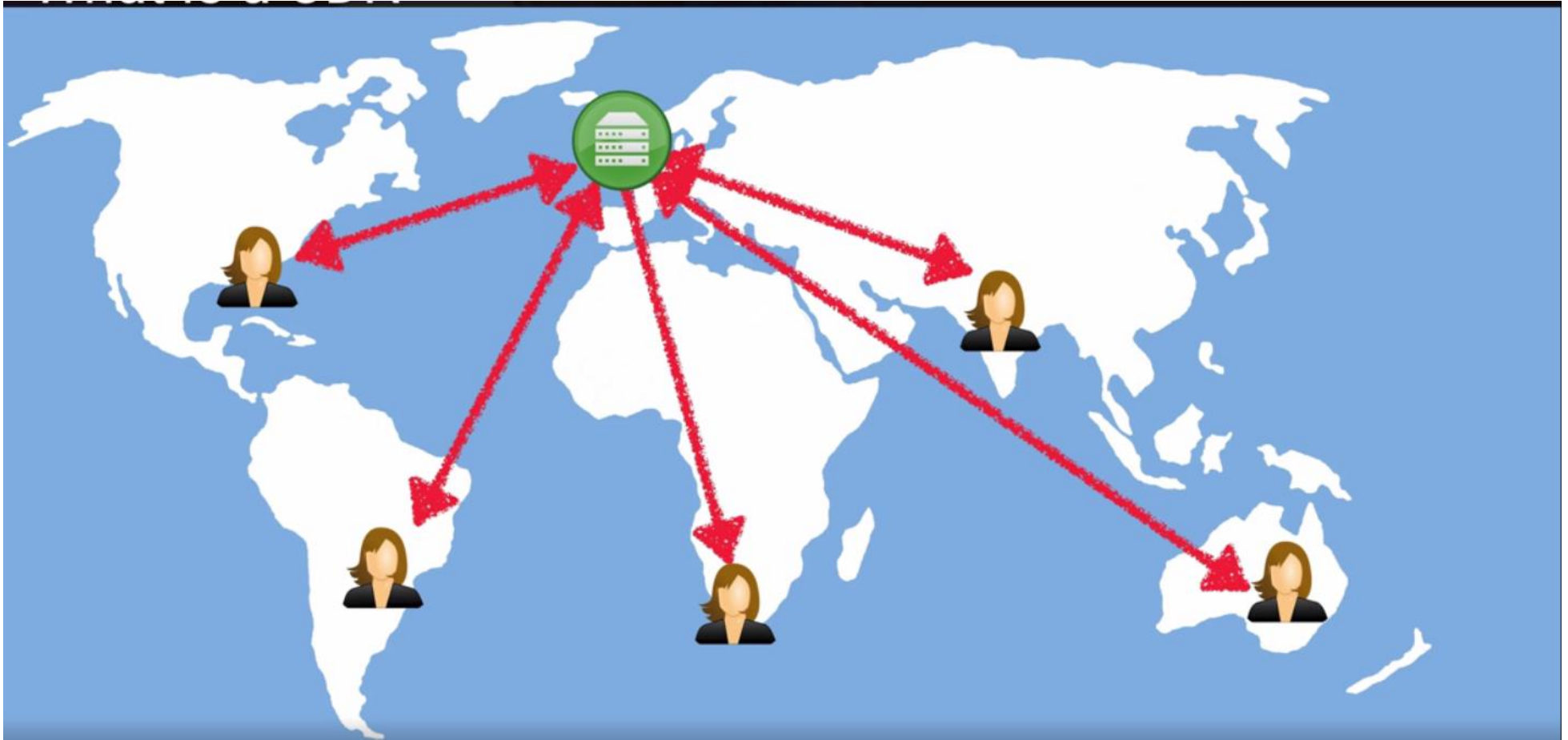
System of distributed servers that deliver web pages and web content to user



Based on Geographical locations



What is CDN ?



Cloud Front – Key Terminology

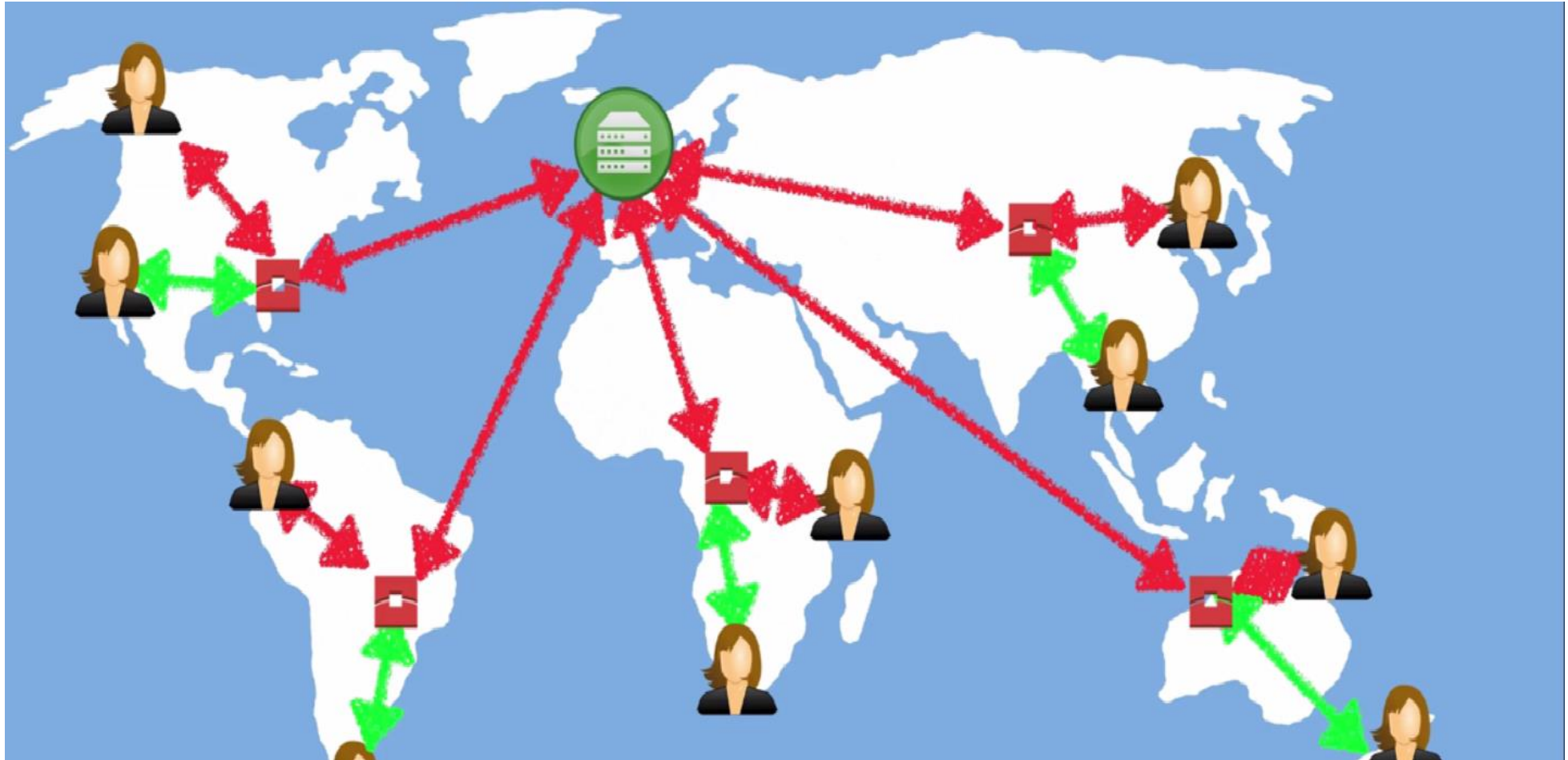
Edge Location –
Content is cached

Origin -
of all
files

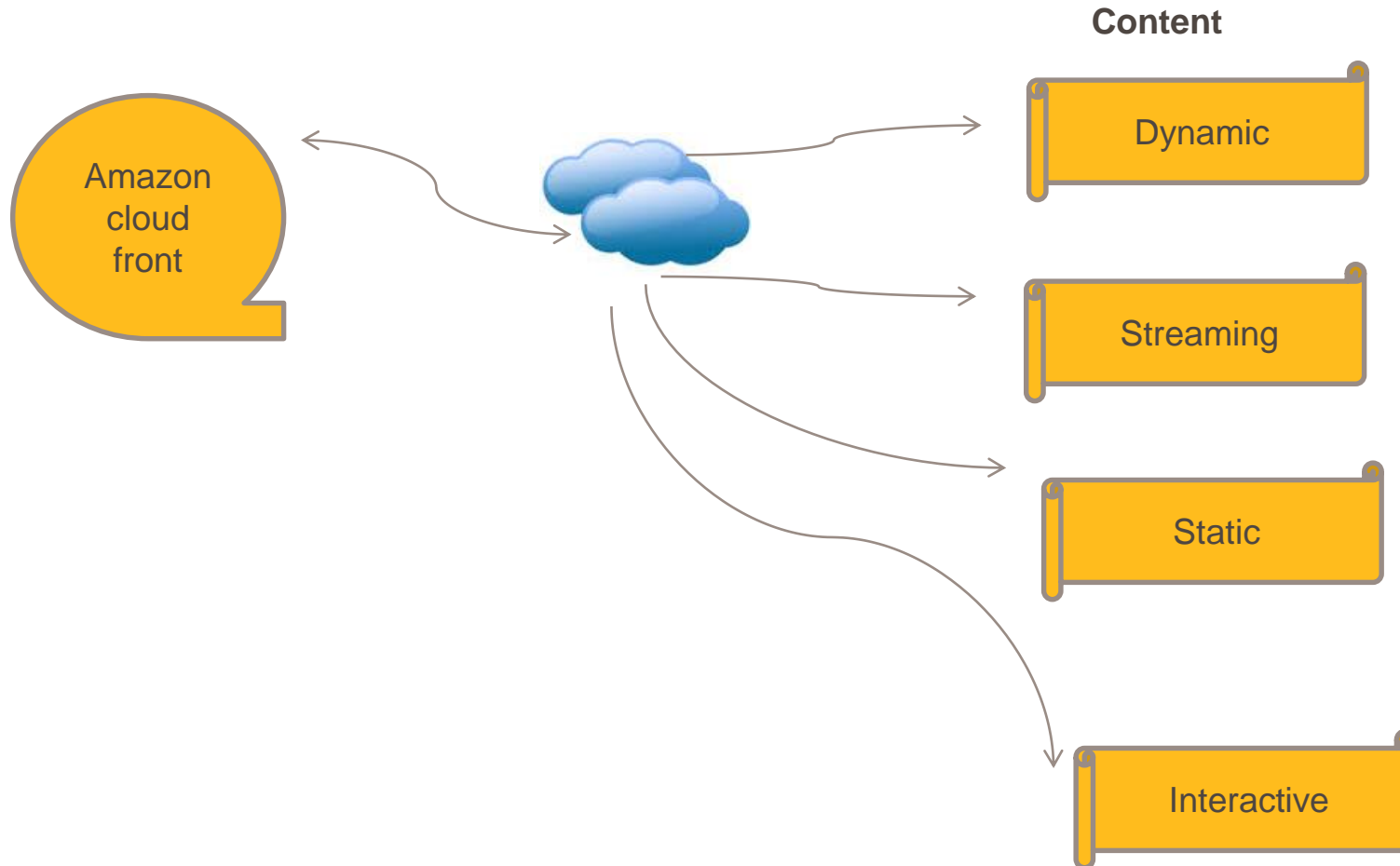


Distribution –
consists of
edge locations

What is a CDN ?



What is Cloud Front ?



Cloud Front – Key Terminology

Web Distribution - Used for Websites

RTMP – Media Streaming

Summary

- **Learnt what is S3**
- **S3 Essentials**
- **S3- The Basics**
- **S3 , S3 –IA , S3 - RR**
- **S3 Pricing**
- **Cloud Front**

People matter, results count.



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