

Hosting All the Things with S3



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Summary

Putting the 'S' in S3

Buckets of Objects

Pizza Luv-ing Storage

Cross Origin Pizza Sharing

S3 Overview

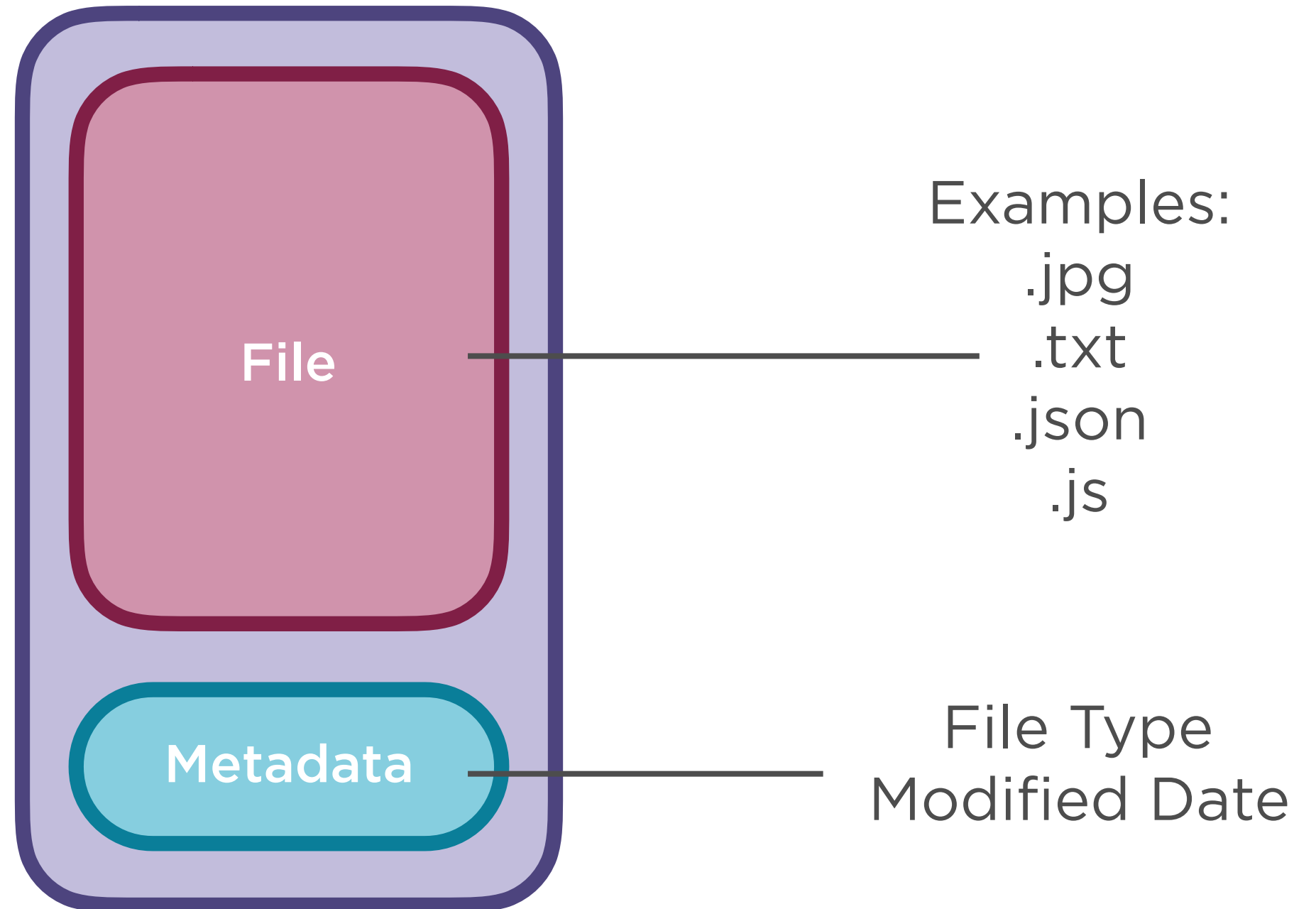
Simple Storage Service

AWS service for storing files



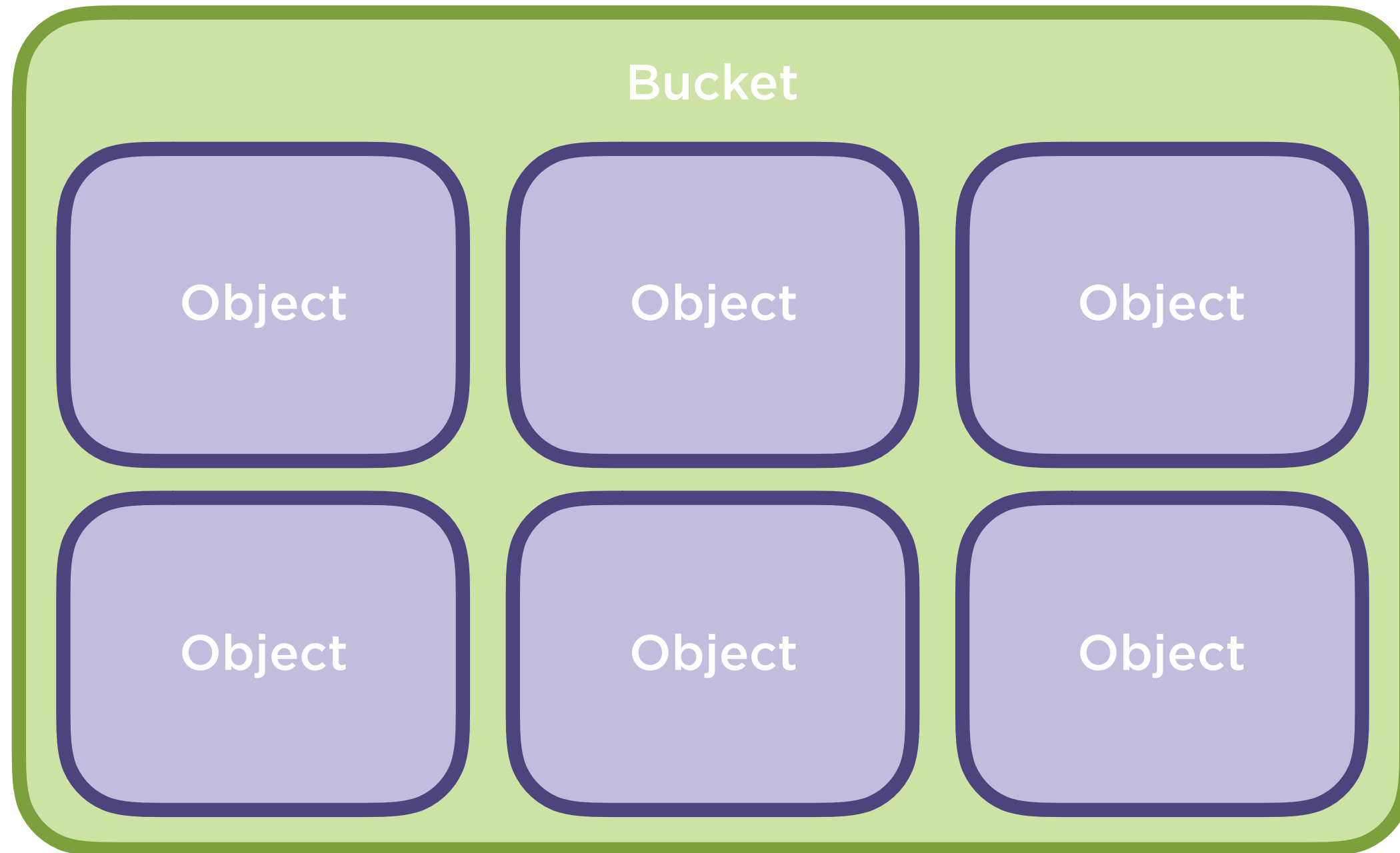
S3 stores Objects in the Region you specify

S3 Object



The maximum object size in
S3 is 5 terabytes

S3 Bucket



S3 Bucket Example

Region: Oregon

Bucket Name: pizza-luvrs

URL: s3-us-west-2.amazonaws.com/pizza-luvrs

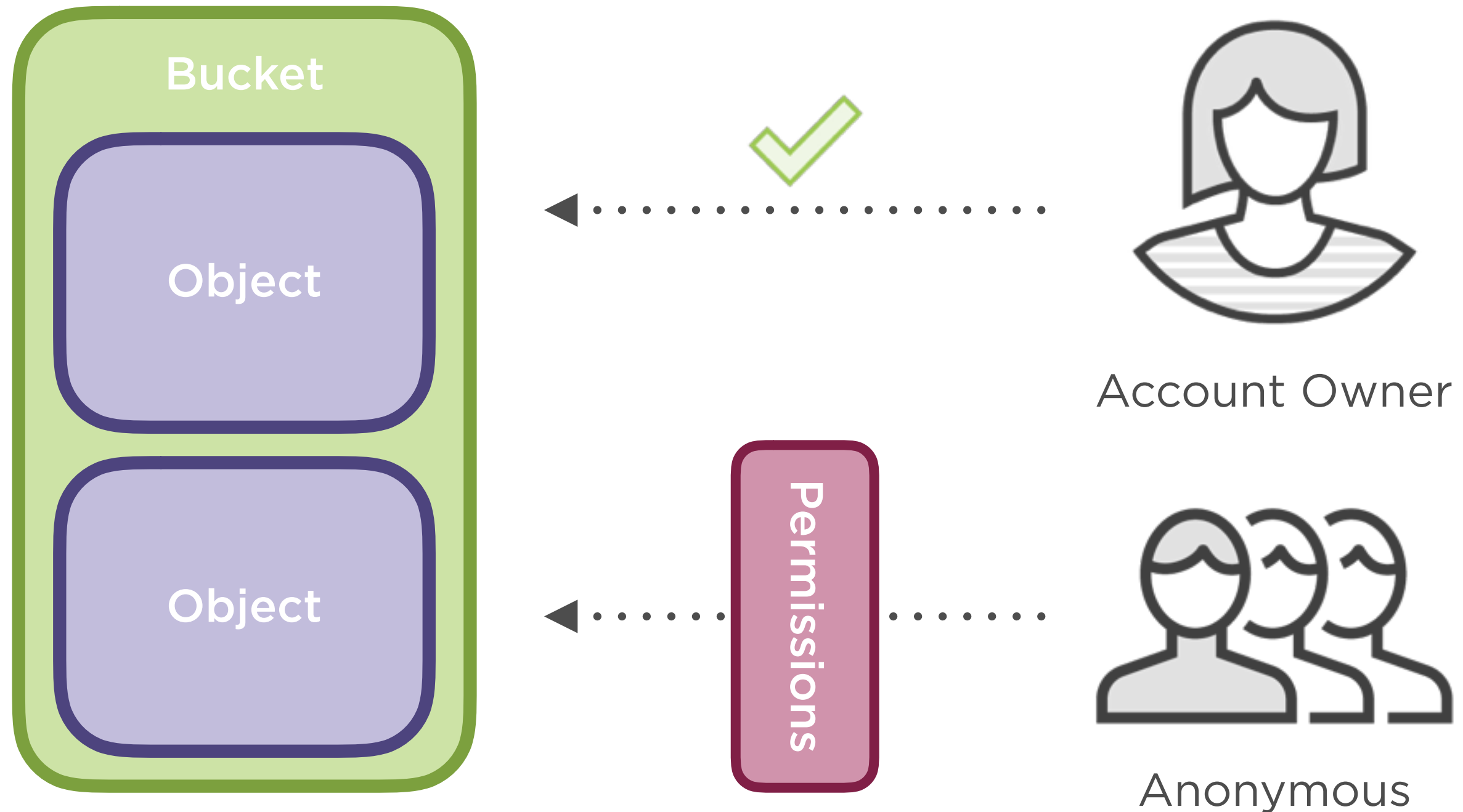
S3 Object Key Example

Filename: image.png

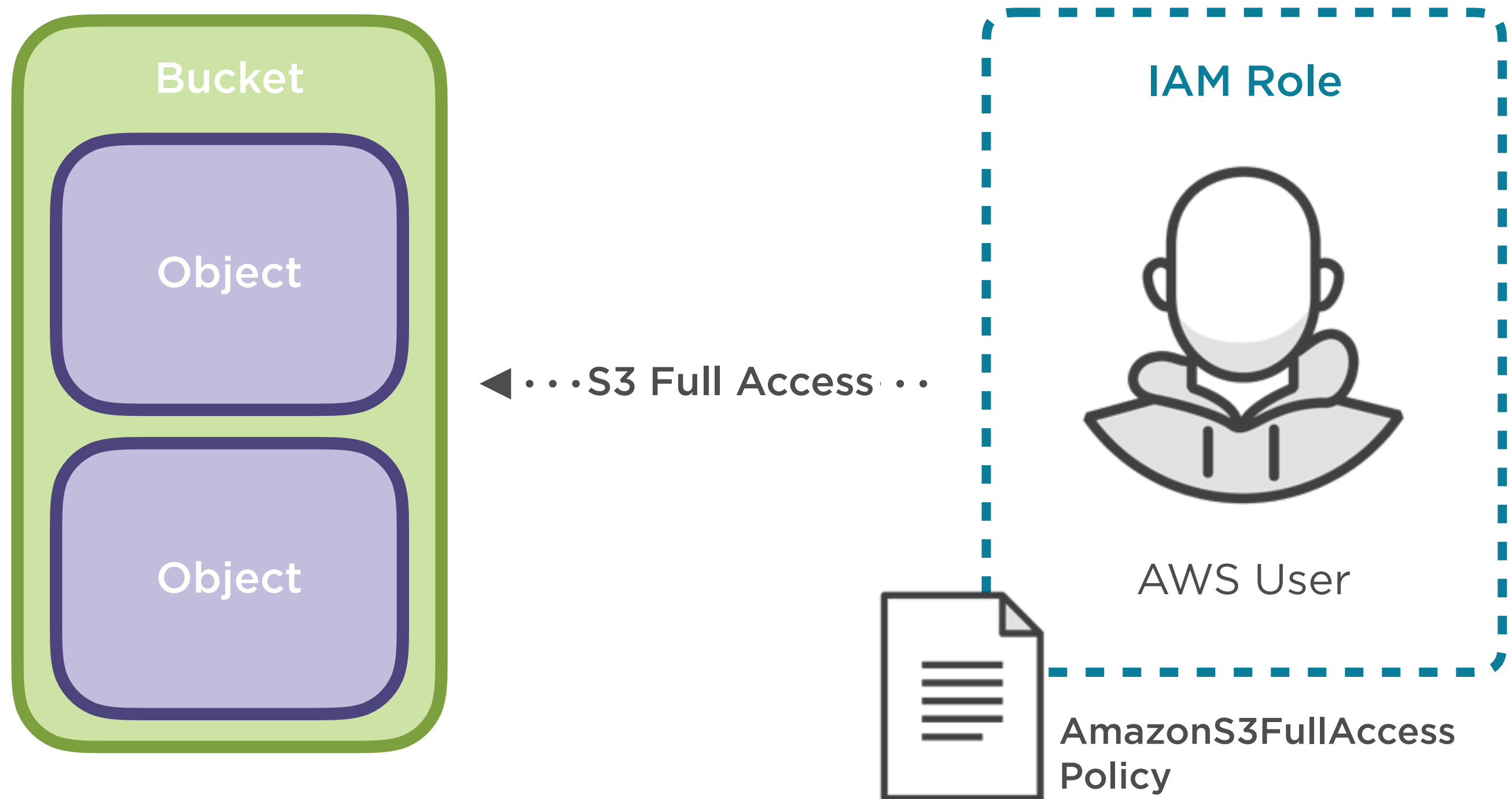
Folder Name: images

Object Key: images/image.png

S3 Access with Permissions



S3 Access with IAM Roles



User



Sydney, Australia

Object

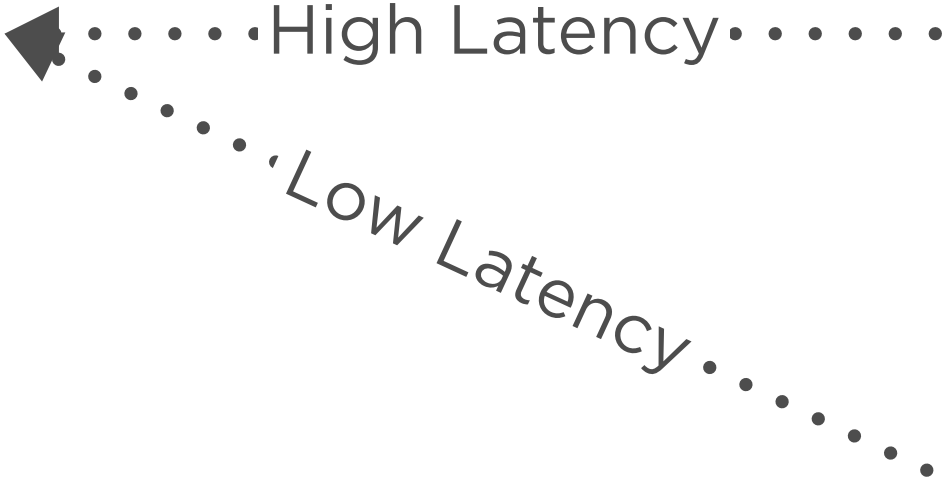


Object Copy



Object Original

Sydney, Australia



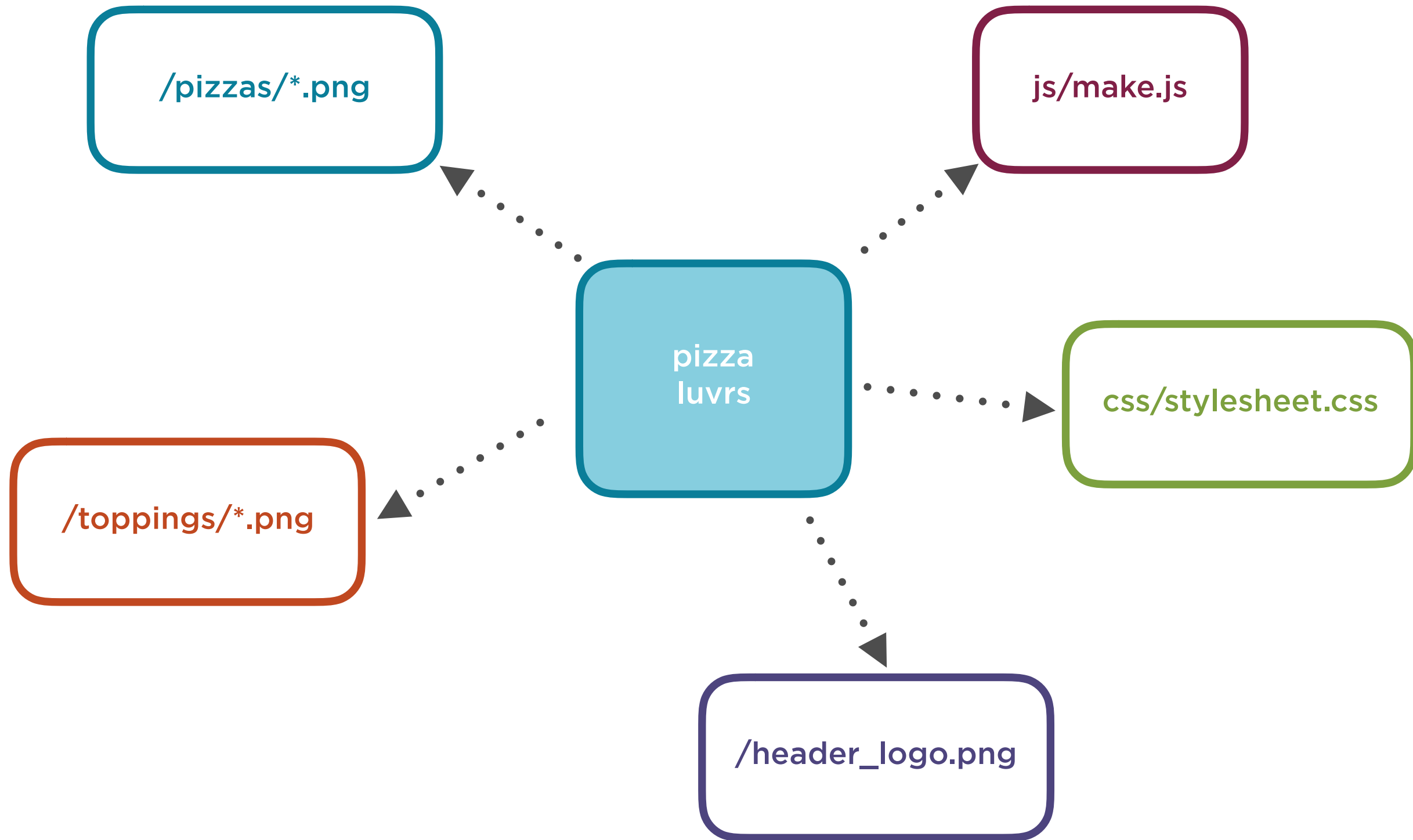
CloudFront is the best way
to solve geographic latency

Creating an S3 Bucket

AWS Policy Generator

<https://awspolicygen.s3.amazonaws.com/policygen.html>

Uploading Objects to S3



How to Upload Objects to S3

Console

Adhoc or
Small Number
of File Uploading

CLI

Recursive
Directory
Uploading

SDK

Dynamic
in Code
Uploading

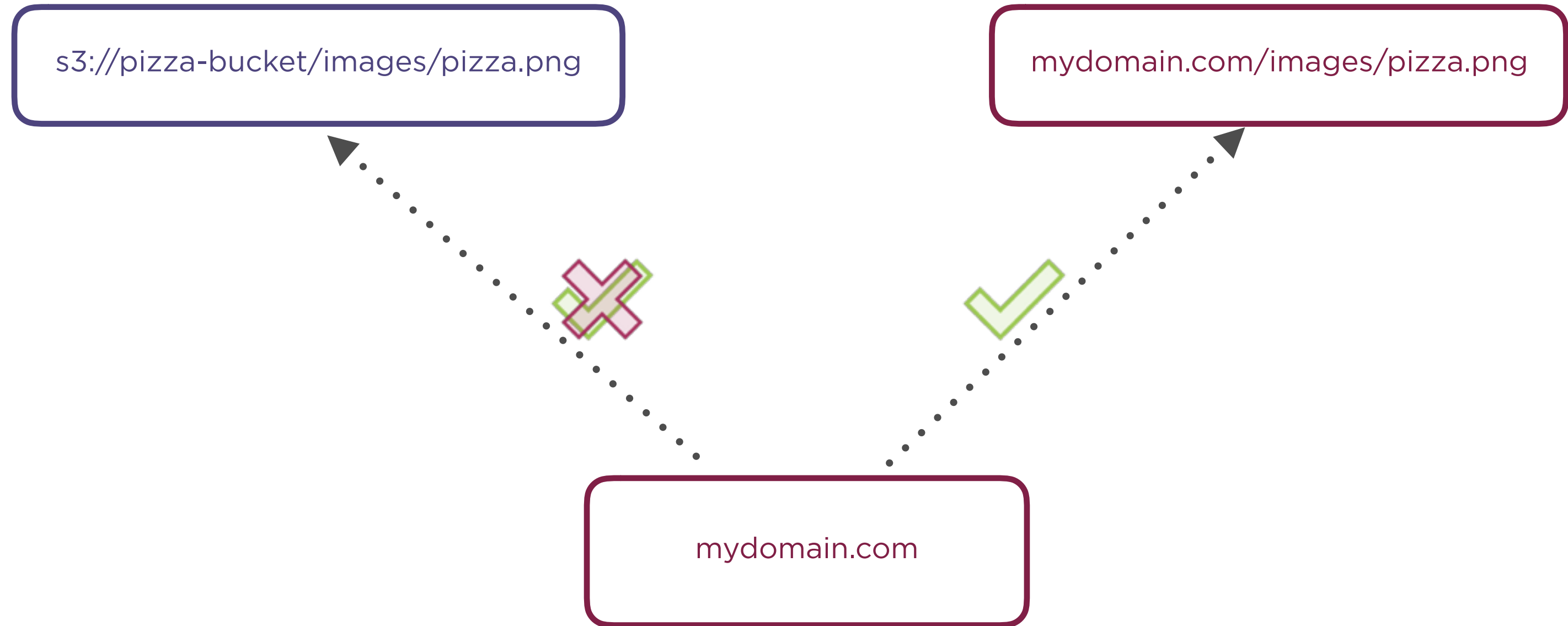
The AWS CLI has the permissions given to the user whose key is configured on your system

Connecting to S3 with Code

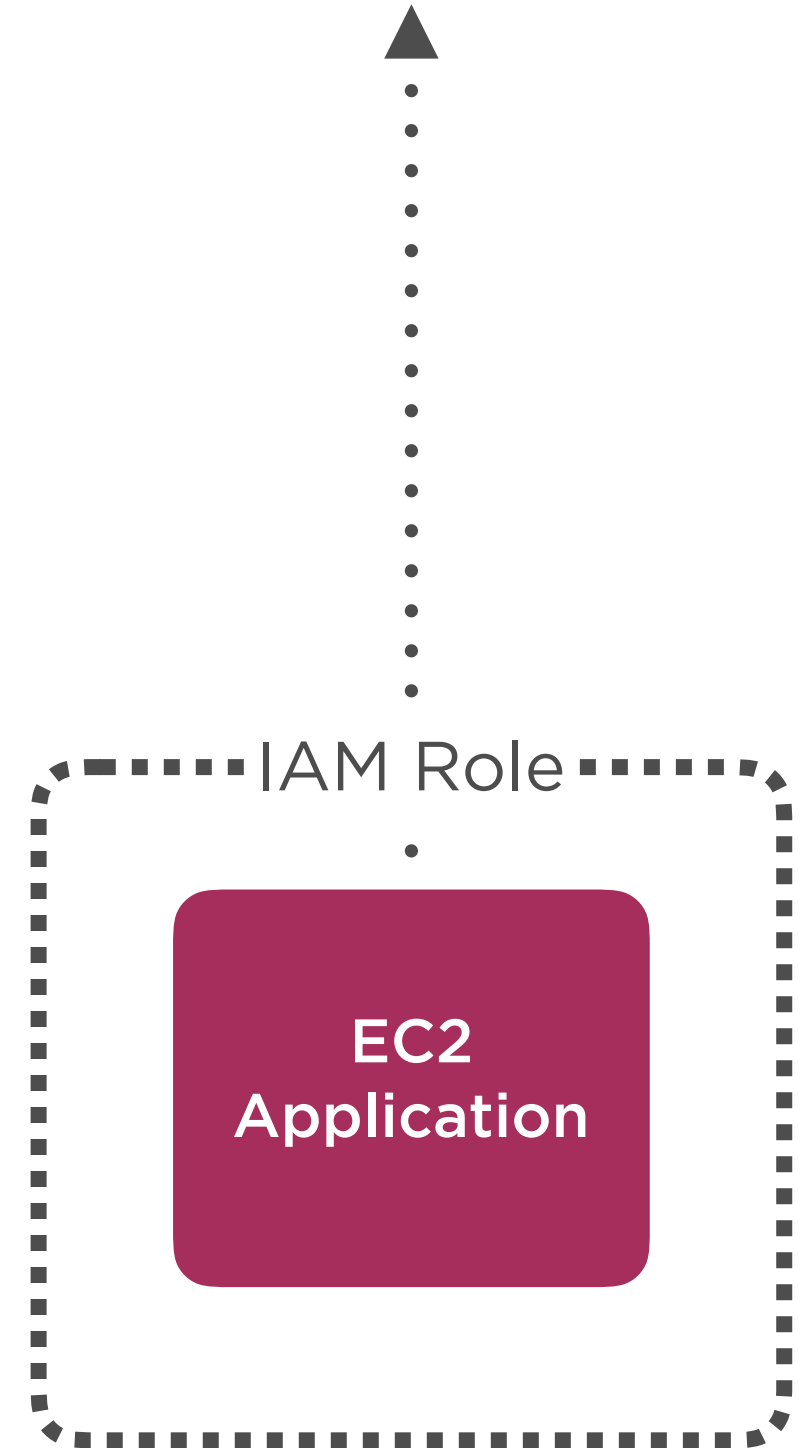
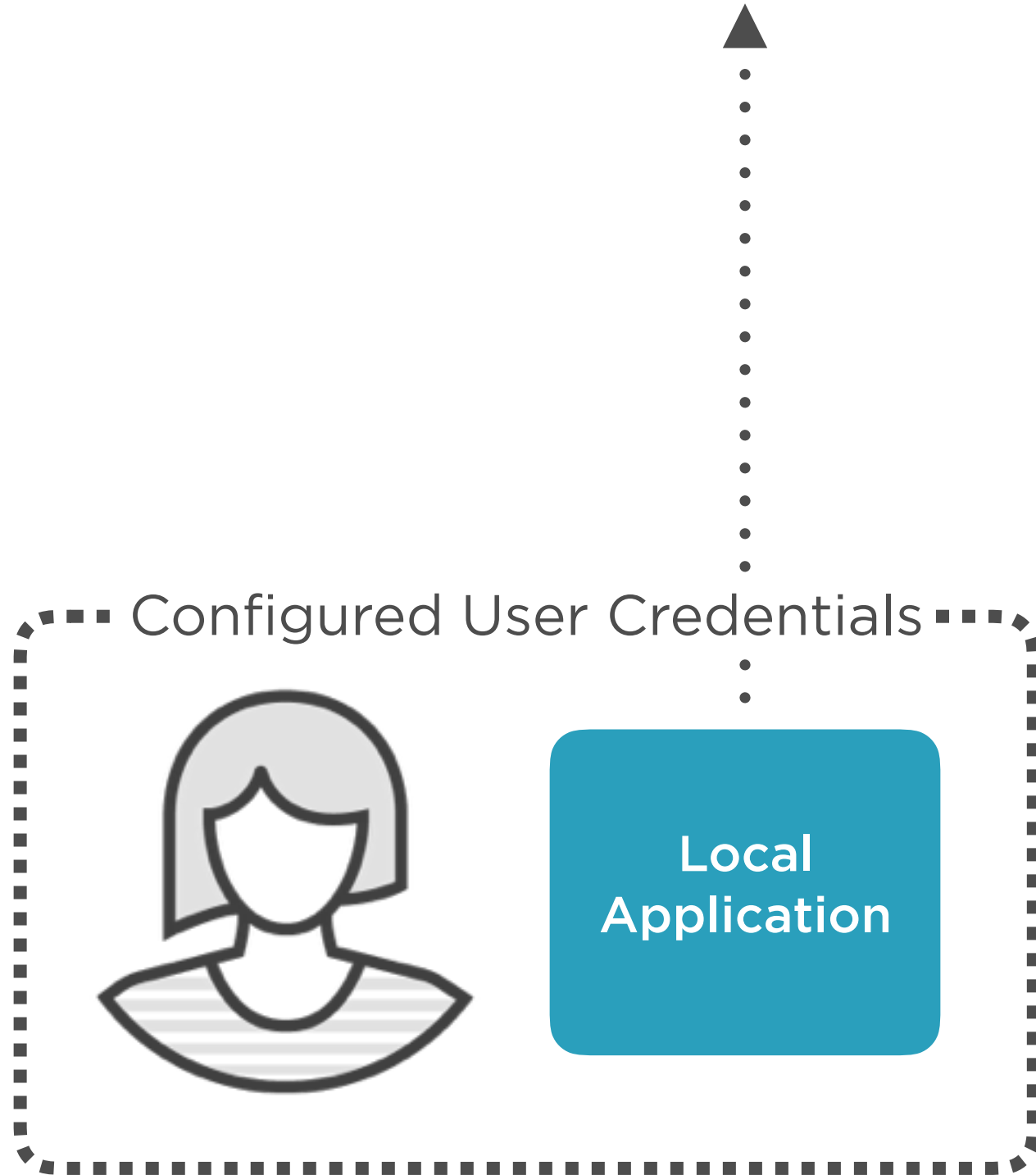
Working with CORS in S3

CORS Example

CORS: disabled



Accessing S3 with EC2



Objective

Assign IAM Role to Newly Launched Instances

Launch Configuration User Data

```
#!/bin/bash  
echo "starting pizza-luvrs"  
cd /home/ec2-user/pizza-luvrs  
npm start
```

Conclusion

Summary

S3 by the numbers

Bucket of pizza

Programmatic S3

S3, S3, let me in...

Up Next:

A Tale of Two Databases with DynamoDB and
RDS

RDS & DynamoDB

**Managed
Relational
Databases**

**Serverless
NoSQL**