## **Program Flow and Supported Operations-**

Shell initiation

```
PS C:\Users\krajp\CIS4010\A1> python s5_shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5>
```

Copying local file to a valid S3 location -

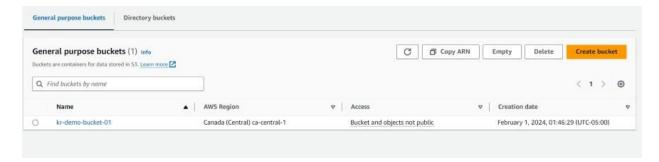
• Using locs3cp command within a bucket or folder, not in root.

```
PS C:\Users\krajp\CIS4010\A1> python s5_shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5> locs3cp photo.jpeg /kr-demo-bucket-01/photo.jpeg
You must first create a bucket or 'chlocn' into an existing one before you can use this command.
S5>
```

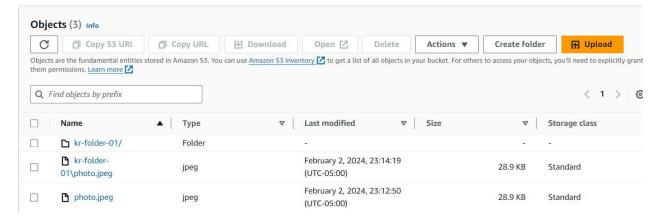
Chlocn into an existing directory, and then use the locs3cp command

```
PS C:\Users\krajp\CIS4010\A1> python s5_shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5> locs3cp photo.jpeg /kr-demo-bucket-01/photo.jpeg
You must first create a bucket or 'chlocn' into an existing one before you can use this command.
S5> chlocn /kr-demo-bucket-01
S5> cwlocn
/kr-demo-bucket-01
S5> locs3cp photo.jpeg /kr-demo-bucket-01/photo.jpeg
uploaded..
S5> locs3cp photo.jpeg /kr-demo-bucket-01/photo.jpeg
uploaded..
S5> locs3cp photo.jpeg /kr-demo-bucket-01/kr-folder-01/photo.jpeg
uploaded..
S5> locs3cp photo.jpeg /kr-demo-bucket-01/kr-folder-01/photo.jpeg
uploaded..
S5> locs3cp photo.jpeg /kr-demo-bucket-01/kr-folder-01/photo.jpeg
```

S3 space before the copy is performed –

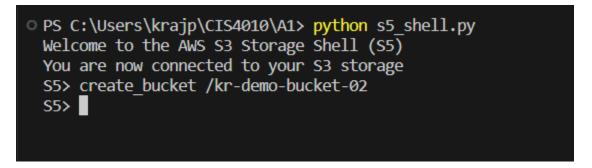


• S3 space before the copy is performed -

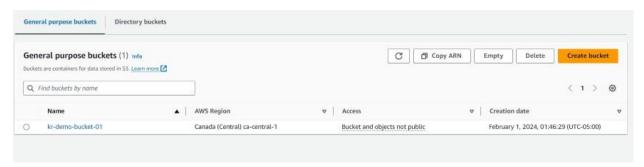


Create Bucket, following naming conventions -

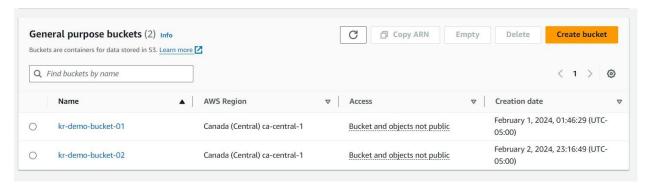
Command used –



• S3 space before the bucket is created –



S3 space after the bucket is created –



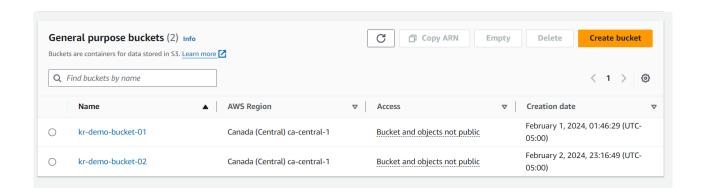
• Creating a bucket with invalid name or with a name that already existed –

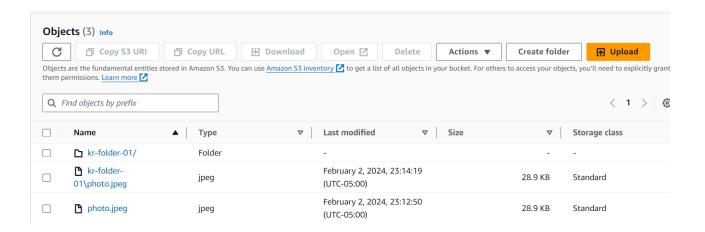
```
○ PS C:\Users\krajp\CIS4010\Al> python s5_shell.py
Welcome to the AWS 53 Storage Shell (55)
You are now connected to your 53 storage
S5> create_bucket /kr-demo-bucket-02
S5> create_bucket /kr-demo-bucket-02
S5> create_bucket /test..
Unsuccesful Create Bucket operation - An error occurred (InvalidBucketName) when calling the CreateBucket operation: The specified bucket is not valid.
S5> create_bucket /aitest
Unsuccesful Create Bucket operation - An error occurred (BucketAlreadyExists) when calling the CreateBucket operation: The requested bucket name is not available. The bucket namespace is shared by all users of the system. Please select a different name and try again.
```

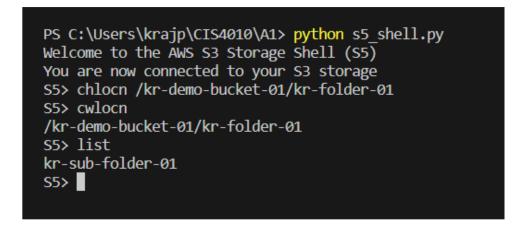
Listing the contents of the specified directories -

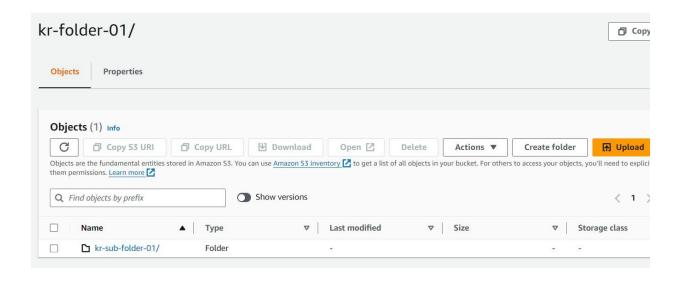
```
PS C:\Users\krajp\CIS4010\A1> python s5_shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5> list
kr-demo-bucket-01
kr-demo-bucket-02
S5> list /
kr-demo-bucket-01
kr-demo-bucket-02
S5> chlocn /kr-demo-bucket-01
S5> cwlocn
/kr-demo-bucket-01
S5> list
kr-folder-01 photo.jpeg
S5> ■
```

Verifying with S3 space –









## Chlocn, Cwlocn, and Quit/Exit commands -

Error checking in place to not allow the user to enter bucket name without leading '/' –
indicating the root

```
PS C:\Users\krajp\CIS4010\A1> python s5_shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5> list
kr-demo-bucket-01
kr-demo-bucket-02
S5> chlocn kr-demo-bucket-01
Incorrect input format. Verify with expected format - "chlocn <bucket_name or full/relative pathname of new directory>"
S5> chlocn /kr-demo-bucket-01
S5> cwlocn
/kr-demo-bucket-01
S5> quit
Exiting AWS S3 Storage Shell (S5)...
PS C:\Users\krajp\CIS4010\A1> 

One of the AWS S3 Storage Shell (S5)...

PS C:\Users\krajp\CIS4010\A1>
```

## Help command for user

```
PS C:\Users\krajp\cISA010\Al> python s5 shell.py
Welcome to the AWS S3 Storage Shell (S5)
You are now connected to your S3 storage
S5> help
Welcome to AWS S3 Storage Shell (S5) help.
Shell commands -

locs3cp: copy a local file to a S3 location.
format: 'locs3cp <full or relative pathname of local object> /<bucket_name>/<full or relative pathname of the S3 object> '

create_bucket: create a bucket in the S3 space following naming conventions.
format: 'create_bucket /<bucket_name>'

cwlocn: Display the current working directory.
format: 'cwlocn'

list: List all contents of the current directory.
format: 'list' or 'list /' or 'list <full or relative pathname>'

chlocn: Change the current working dorectory in the S3 space.
format: 'chlocn /<bucket_name' or 'chlocn <full or relative pathname'

quit/exit: Exit the AWS S3 Storage Shell (S5).
format: 'quit' or 'exit'
S5>
```