S3 Read Permissions

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The AWS CLI provides multiple commands and sub-commands for different services.  The readings for this week how to use S3 for personal and private use. But what if we wanted to share file(s) with another student or colleague but we don't want to open the bucket up to the public? The s3api commands provide options to allow us to grant access to specific AWS users for a known email address or canonical ID.

Email: [hrosado4@student.umgc.edu](mailto:hrosado4@student.umgc.edu)

AWSAccountId: 031311690422

Region: us-east-1

Canonical ID:

So when you talk to your partner, ask for their Canonical ID. If you don't know how to retrieve this information, check out this link:

* [Your AWS account identifiers](https://docs.aws.amazon.com/general/latest/gr/acct-identifiers.html)

You essentially get your ID by clicking on a bucket and the following it to permissions and access control list.

The following subcommands would allow this functionality:

* aws s3api put-object-acl
* aws s3api get-object

For example, the following command will grant read access to id of 966a0a7a829972f62b3644sd36f7174a43720f1d4e6b0f27acce80d26sdfa8f for Tribbles jpeg document in the sdev400.jrobertson.fall2019 bucket.

aws s3api put-object-acl --bucket sdev400.jrobertson.fall2019 --key Kirk\_surrounded\_by\_Tribbles.jpg --grant-read id=966a0a7a829972f62b3644sd36f7174a43720f1d4e6b0f27acce80d26sdfa8f

The following will get that object if invoked by an AWS user with the matching canonical ID.

aws s3api get-object --bucket esdev400.jrobertson.fall2019 --key Kirk\_surrounded\_by\_Tribbles.jpg  myFile.jpg

Additional documentation for these commands are available here:

* [Description¶](https://docs.aws.amazon.com/cli/latest/reference/s3api/get-object.html)

[https://docs.aws.amazon.com/cli/latest/reference/s3api/get-object.html]

* [Description](https://docs.aws.amazon.com/cli/latest/reference/s3api/put-object-acl.html)

[https://docs.aws.amazon.com/cli/latest/reference/s3api/put-object-acl.html]

For this discussion, reach out to another student in the class and exchange information required to allow them to download one of your objects in an S3 bucket. You should use the AWS s3api sub-commands to accomplish this. You should have already created the buckets, folder and document you want to share.

For evidence of completion, for the student sharing their document, provide the AWS CLI commands used to create the shared document and the student you have shared the document. For the student getting the object, provide the commands used to get the object as well as a screen capture showing the object now resides in their Cloud9 environment.

Be sure to start this early as it will take some time to coordinate with another student.