* Course Overview
* Introduction to the AWS CLI
  + Use \ to tell CLI the command is not finished yet
* Creating and Using an IAM Ad..
  + Create users with just enough privileges
  + In AWS
    - Search ‘iam’
    - Click ‘Uers’
    - Click ‘Add user’
    - Click ‘programmatic access’ box
    - Click ‘Next’
    - Click ‘Attach existing policies directly’
    - Click ‘AdministratorAcess’
    - Click ‘Next;
    - Click ‘review’
    - Click ‘Create’
    - Store access key somewhere safe
* Installing the AWS CLI
  + Search the web for ‘install aws cli’
  + Download aws cli
* Configuring the AWS CLI
  + Can never retrieve lost key
  + Can generate a new one
  + Click on ‘user’ on upper right corner
  + Click on ‘My Security Credentials’
  + In a CLI type ‘aws configure’
    - For region name put your region
    - For output format put text(options: json, table, text)
  + Type ‘aws s3 ls’
    - aws: use the aws cli
    - s3: s3 service
    - ls: list all buckets in account
* Configuring Name Profiles fo…
  + Profiles: which account of aws to access
  + Aws cli stores credentials and configurations settings in two files in hidden directory in home directory
    - The hidden directory is .aws
    - config: contains the format and region preferences
    - Credentials: holds access key id and the key itself
  + aws configure --profile [profile name]
    - Add one or more additional account settings
  + Then to run commands for the account add --profile [profile name] after aws
  + ex)
    - aws --profile account2 s3 ls
  + Aws cli
    - Automate aws operations
    - Using IAM users
      * Never give root user cli access only IAM users
    - Installing the aws cli
* Getting Help and Guidance for Your AWS CLI Operations
  + Aws cli command syntax
    - aws [options] <command> <subcommand> [parameters]
  + Command: usually invoke specific aws services
  + Subcommands: usually verbs
    - ex) create, delete, enable ….
  + Options
    - ex) --region, --output, --profile, --dry-run
  + Use --dry-run to test syntax
* Finding Syntax Help for AWS…
  + Type ‘aws help’
    - Gives brief overview and options
  + ‘aws s3 help’
    - Gives information and subcommands etc
  + Aws docs is also a helpful source
  + Using Both the S3 and S3API
    - ‘aws s3 ls’
    - ‘aws s3api list-buckets’
    - Gives same results be formatted differently
  + S3
    - Sync file systems
    - Stream data
    - Transfer large file in multiple parts
  + S3API
    - Interact with the aws api
    - Granular control
* Configuring IAM Users, Group…
  + Look down root user and create IAM users to perform day to day administration
  + Create an IAM group
    - Attach a policy giving members just enough access
    - Sign IAM users
  + Type ‘aws iam create-user --user-name [user name]’
    - Creates an iam user
  + Type ‘aws iam get-user --user-name mike’ to get user info
  + Type ‘aws iam list-access-keys --user-name [username]’ to show access keys
  + Type ‘aws iam create-access-key --user-name [username]’ to create keys
  + Type ‘aws iam create-group --group-name [group name]’ to create group
  + To define group permissions
    - Can create json format policy document and attach to group
  + Type ‘aws iam list-policies | grep AmazonEC2 | grep Access’
    - Return descriptions of IAM policies in region
  + Type ‘aws iam attach-group-policy \ --policy-arn [policy arn] \ --group-name [group name]
  + Type ‘aws iam-add-user-to-group \ --group-name [group name] \ --user-name [user name]’
    - To add user to group
* Creating an S3-based Static …