AWS 02 - CLI Setup

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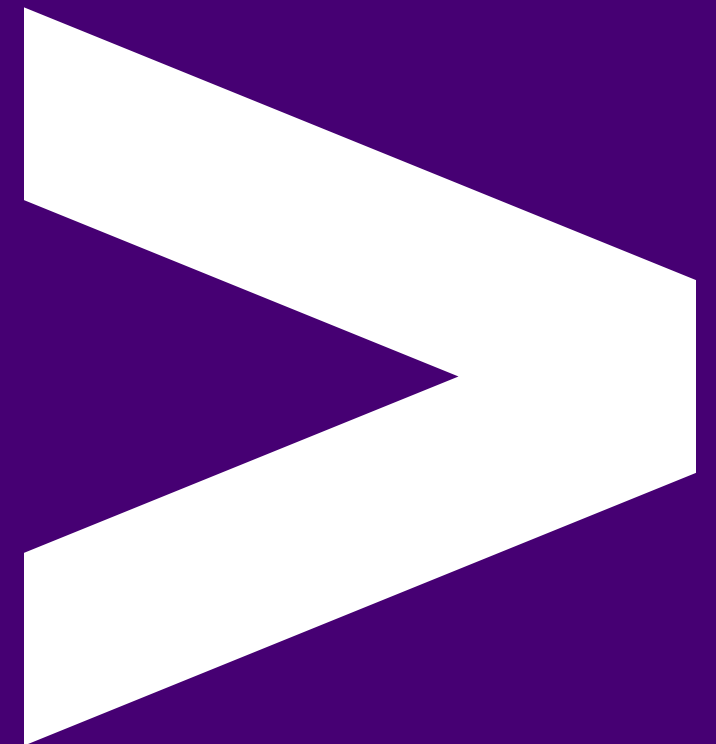
AWS sessions list

- AWS 01 AWS + Cloud Intro ✅ *1.5hrs*
- AWS 02 AWS CLI Setup ⬅ *1.5hrs*
- AWS 03 S3 Storage (Console) *1.5hrs*
- AWS 04 CloudFormation Intro + S3 Storage (IaC) *1.5hrs*
- AWS 05 Lambda Intro *1.5hrs*
- AWS 06 Lambda (IaC) *1.5hrs*
- AWS 07 Redshift (IaC) *1.5hrs*
- AWS 08 EC2 (IaC) + Grafana setup *1.5hrs*

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Overview

- What is the AWS CLI?
- Installing the AWS CLI
- Installing SSO tools to help us authenticate

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Learning Objectives

- Explain why the AWS CLI is useful to us as engineers
- Understand how to install the AWS CLI on our laptops
- Understand how to configure authentication via SSO with the AWS CLI

AWS CLI

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AWS CLI

- The way we interact with AWS services through the CLI (Command Line Interface)
- Ease of use over logging in to the console
- If you can do it on the Console, you can do it in the CLI - YAY!
- Simple use-cases: searching logs, quick S3 upload/download

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CLI Installation

Let's install the CLI, so that once we're done we'll be able to communicate with AWS via the command line:

```
$ aws <command> <subcommand> [options and parameters]
```

Installing the CLI - Windows

- Download the latest version
- Open the download and follow the installation steps
- Verify your installation with the following command:

```
C:\> aws --version
aws-cli/2.1.24 Python/3.7.4 Windows/10 botocore/2.0.0
```

Note - You may see a more recent version number.

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Installing the CLI - MacOS

- Download the latest version
- Open the download and follow the installation steps
- Verify your installation with the following commands:

```
$ which aws
/usr/local/bin/aws

$ aws --version
aws-cli/2.1.24 Python/3.7.4 Darwin/18.7.0 botocore/2.0.0
```

Note - you may see a more recent version number.

Installing the CLI - Linux

Follow the guide which best matches your setup here.

Emoji Check:

How do you feel about the CLI installation process?

Do you feel you understand why the AWS CLI is useful?

1. 😢 Haven't a clue, please help!

2. 🙁 I'm starting to get it but need to go over some of it please

3. 😐 Ok. With a bit of help and practice, yes

4. 🙂 Yes, with team collaboration could try it

5. 😀 Yes, enough to start working on it collaboratively

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SoT - Windows setup

> See handout ./handouts/README-windows-setup-SoT.md for all users on Windows
>
> Windows users only!

If you are using GitBash on Windows - we will not be using that at all for AWS logins, sorry.

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SoT - MacOs / Unix setup

See handout ./handouts/aws-setup-azure-login.md.

MacOs / Unix users only!

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Logging into AWS

Run the following command to log in to AWS:

```
aws-azure-login --profile <profile-name> --mode gui
# or
aws-azure-login --profile <profile-name> --mode cli
```

You will be prompted to enter your Accenture account password, you can copy/paste this into your terminal.

Adding aliases (MacOS / Unix)

We can add some handy aliases or "fake commands" to our `~/.bashrc` or `~/.zshrc` file for use later:

```
alias aws-logon='aws-azure-login --profile <profile-name>'
alias aws-logon-cli='aws-azure-login --profile <profile-name>
alias aws-logon-gui='aws-azure-login --profile <profile-name>
alias awsconf='nano ~/.aws/config'
alias awscreds='nano ~/.aws/credentials'
alias codeawsconf='code ~/.aws/config'
alias codeawscreds='code ~/.aws/credentials'
```

Add the examples above and re-source your file (or open a new terminal).

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Confirming your CLI access

- On your terminal, check which user you're using to call the AWS operations:
  - `aws sts get-caller-identity --profile <profile-name>`
- Get a list of available S3 buckets:
  - `aws s3 ls --profile <profile-name>`

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Confirming your Console access

- On the Management Console in your browser:
  - Search for S3 in the services search box at the top of the page
  - Select S3 from the list of services
  - Look at the list of available buckets - does this match what you saw in the terminal?

We'll hear more info on what "S3" and "buckets" are in the next session!

Emoji Check:

How do you feel about the `aws-azure-login` installation process?

Do you feel you understand why the AWS CLI is useful?

1. 😢 Haven't a clue, please help!

2. 🙁 I'm starting to get it but need to go over some of it please

3. 😐 Ok. With a bit of help and practice, yes

4. 🙂 Yes, with team collaboration could try it

5. 😃 Yes, enough to start working on it collaboratively

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Overview - recap

- What is the AWS CLI?
- Installing the AWS CLI
- Authenticating with the AWS CLI

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Learning Objectives - recap

- Explain why the AWS CLI is useful to us as engineers
- Understand how to install the AWS CLI on our laptops
- Understand how to configure authenticating via SSO with the AWS CLI

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Further Reading

- [AWS CLI Documentation](#)
- [aws-azure-login homepage](#)

Emoji Check:

On a high level, do you think you understand the main concepts of this session? Say so if not!

1. 😢 Haven't a clue, please help!
2. 🙁 I'm starting to get it but need to go over some of it please
3. 😐 Ok. With a bit of help and practice, yes
4. 🙂 Yes, with team collaboration could try it
5. 😀 Yes, enough to start working on it collaboratively