

# AWS Academy and Digital Research Infrastructure

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# What is AWS Academy?

## Program benefits

### Institutions



- Become a leader in cloud education
- Develop and retain educators
- Produce graduates that are prepared for in-demand cloud careers

### Educators



- Access innovative cloud courses
- Receive complimentary AWS professional training
- Receive 50% discounts on AWS Certification exams

### Students



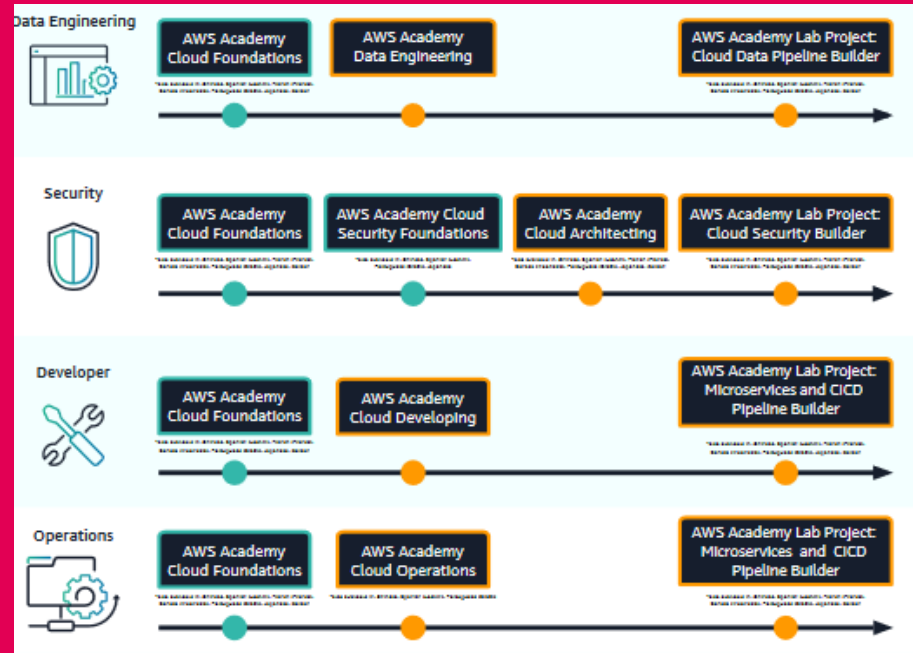
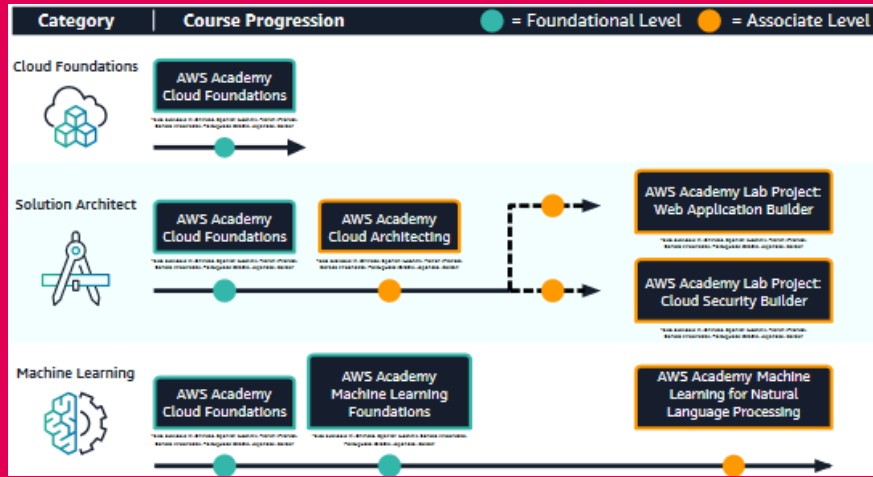
- Land a well-paid job in one of the fastest-growing industries
- Gain skills hiring managers value
- Exclusive access to the Emerging Talent Community upon course completion

### Employers



- Close your cloud skills gap
- [Find candidates with AWS skills and experience](#)

# AWS Academy Course Catalogue



# AWS Academy Cloud Security Foundations

## Course modalities

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### Slides

- All modules

### Activities

- Module 1: AWS Documentation Scavenger Hunt
- Module 2: Shared Responsibility Model
- Module 6: Reading a Log File

### Demonstrations

- Module 3: Amazon S3 Cross-Account Resource-Based Policy
- Module 6: Security Hub

### Labs

- Module 3: Using Resource-Based Policies to Secure an S3 Bucket
- Module 4: Securing VPC Resources by Using Security Groups
- Module 5: Encrypting Data at Rest by Using AWS KMS
- Module 6: Monitoring and Alerting with CloudTrail and CloudWatch
- Module 7: Remediating an Incident by Using AWS Config and Lambda

# Learning with Interactive Labs

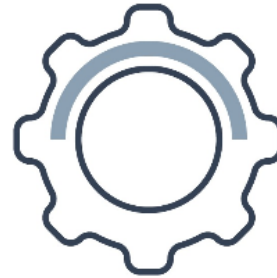
## Features of AWS Academy Learner Lab

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An AWS Academy Learner Lab provides a long-running sandbox environment to explore AWS services.

The environment has the following features:

- You can access a **restricted set of AWS services**.
- Data and resources that you create in the AWS account will be retained until the class end date.
- Each learner has a budget limit of \$50 USD. If you exceed the budget, your lab account will be disabled, and all progress and resources will be lost.
- The session timer is 4 hours by default.



# Post Baccalaureate Diploma in Cybersecurity at Okanagan College

## Post Baccalaureate Diploma in Cybersecurity

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### Program Code

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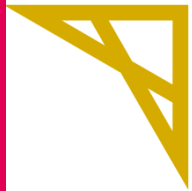
PBDPCS

### Program Description

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The Cybersecurity Post-Baccalaureate Diploma is aimed at students with various backgrounds who wish to pursue a career in the cybersecurity industry. The program focuses on program application and database security and cybersecurity threat analysis. Students use industry-standard software and analytical software and gain knowledge and practical skills directly applicable to working in the cybersecurity industry.

# The Digital Research Alliance of Canada's Services for Researchers



**Digital Research  
Alliance** of Canada

**Alliance de recherche  
numérique** du Canada

# Storage resources available

## Filesystem quotas and policies

To ensure there's space for all users, we have designed a system of quotas and policy restrictions regarding backups and filesystem purging. **Each user has access to the /HOME and /SCRATCH spaces and each group has one terabyte of project space.**



# Research Data Management

## Research Data Management

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### What is RDM?

Research Data Management (RDM) is one of the four key elements of Canada's digital research infrastructure (DRI). It encompasses the processes applied throughout the lifecycle of a research project to guide the collection, documentation, storage, sharing, and preservation of research data, and allows researchers to find and access data.

# Connecting to an instance on cedar and managing database

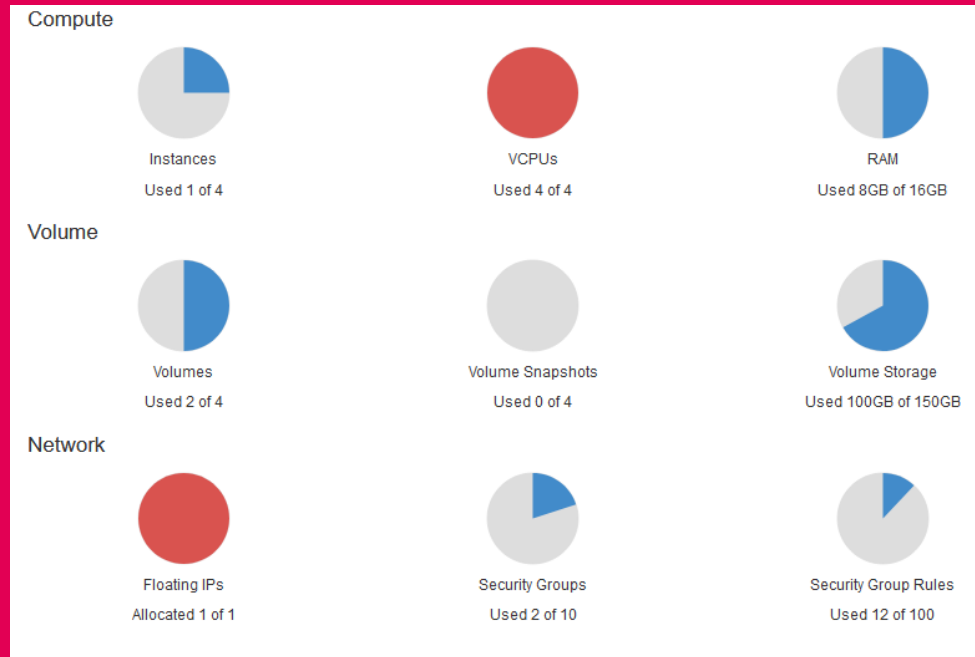
```
ajisp@cedar1:~  
Success. Logging you in...  
Success. Logging you in...  
-----  
=====Welcome to Cedar! / Bienvenue sur Cedar!  
=====
```

For information see: <https://docs.alliancecan.ca/wiki/Cedar>  
Email [support@tech.alliancecan.ca](mailto:support@tech.alliancecan.ca) for assistance and/or to report problems.

Pour plus d'information lisez : <https://docs.alliancecan.ca/wiki/Cedar>  
Écrivez à [support@tech.alliancecan.ca](mailto:support@tech.alliancecan.ca) pour obtenir de l'aide ou rapporter un problème.

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# High performance virtual instances on Arbutus



# Conclusion

- AWS Academy Platform
- AWS Academy Security Foundations Course
- Post Baccalaureate Diploma in Cybersecurity at OC
- DRI Resources provided by Digital Research Alliance
- Using secure database for research data
- High performance computing instances

Thank you

Any Questions?