



AWS Ramp-Up Guide: Academic Research

For Academic Researchers, Data Engineers and Data Scientists

These are the most salient learning cloud computing resources from our classrooms, digital curricula, video library, and AWS Lab Environment, that relate to the field of Academic Research. This Ramp-Up Guides is not intended to be consumed entirely. Different sections tackle different objectives.

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Learn the Fundamentals of the AWS Cloud			
Learning Resource		Duration (hrs)	Type
AWS Foundations: Getting Started with the AWS Cloud Essentials	Fundamental	1.0	Digital Training
AWS Compute Services Overview	Fundamental	0.6	Digital Training

General Research Technologies on AWS			
Learning Resource		Duration (hrs)	Type
Introduction to Machine Learning: Art of the Possible	Fundamental	0.5	Digital Training
Planning a Machine Learning Project	Fundamental	0.5	Digital Training
Introduction to Amazon SageMaker	Fundamental	0.2	Digital Training
\$ Amazon SageMaker Studio for Data Scientists	Advanced	18.0	Classroom Training
Selecting your Data Migration Strategy with AWS	Fundamental	0.5	Digital Training
Getting into a Serverless Mindset	Fundamental	0.5	Digital Training
Securing and Protecting Your Data in Amazon Simple Storage Service (Amazon S3)	Advanced	1.6	Digital Training
\$ Building Data Lakes on AWS	Intermediate	6.0	Classroom Training

Additional Academic Research Resources			
Learning Resource			Type
Research and Technical Computing on AWS			Website
Training and Certification for U.S. Government			Inquiry
Five ways to use AWS for research (starting right now)			Website
AWS Cloud Credit for Research			Website
AWS Educate			Website
Amazon Lightsail for Research			Website
Amazon Lightsail for Research Tutorial			Website



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Deploying RStudio and running Analysis with Amazon Lightsail for Research

[Workshop](#)

AWS Parallel Cluster

[Video](#)

Registry of Open Data on AWS

[Website](#)

AWS Education: Research training and seminars

[Events](#)

AWS Security - Getting Started Guide

[Documentation](#)