

Webinar Series on Remote Learning

TITLE

Labs in the Cloud: Tips on Moving Classroom Labs Online

BRIEF SYNOPSIS

This presentation will cover the basics of what the cloud is and how AWS can be used to replicate classroom labs in an online environment. The focus of the presentation will be to introduce some ways in which AWS can be used to provide a classroom-based experience to students in an online environment. Topics will include what the cloud is, what virtualization is, the need for virtualization, how Gen Z and younger students perceive the Internet, using AWS EC2 instances to create virtual labs, and the benefits of a virtualized lab environment. The target audience for this presentation is educators who have special software or complex lab configuration in the classroom and are looking for ways to provide access to students in a virtual environment.

SPEAKER

Robert C.
Schanke, MBA,
PhD

SPEAKER BIO:

Dr. Schanke is a leader, innovator, and educator with over twenty-five years of industry and academic experience. As a leader in a global organization, he focused on the design and implementation of computer infrastructures and innovative solutions that drove operational and organizational performance. As an educator, his interests in cutting edge technologies led him to the intersection of technology, humanities, and the arts, where he is helping to push the bounds of technology in education. Today he is focused on interactive media and simulation, developing virtual and augmented reality educational experiences bringing classroom labs to an online environment.

DURATION

44 min 55 sec

TIMESTAMPS

[0:00](#) – Speaker Introduction

[2:27](#) – Infrastructure as a Service

[3:22](#) – Classroom computer labs

[4:48](#) – Specialized Software

[7:22](#) – Student Access to Technology

[8:26](#) – Takeaways

[8:56](#) – The Spreadsheet Lab

[10:26](#) – The Virtual Lab

[10:47](#) – Complex Labs

[11:26](#) – Game Design and Development
Virtual Lab

[15:04](#) – Database Administration Classroom
Lab

[18:08](#) – Takeaways

[19:25](#) – Virtual Lab Environments

[21:46](#) – How do I get started?

To access a downloadable version of this content, click [here](#) .

If you enjoyed this content, be sure to check out our live and on-demand webinars [here](#).

Q&A with Robert C. Schanke:

Q: Can I request for the promotional credits to AWS if my credits expire before time in AWS Educate?

A: Please send a request to customer support at <https://aws.amazon.com/education/awseducate/contact-us/>

Q: I'm in both AWS Educate and AWS Academy programs. How this will interact?

A: Academy is focused on AWS Certification. AWS Educate is focused on AWS and Cloud instruction. The two programs complement one another.

Q: Is it possible/feasible to spin up Mac VMs?

A: AWS does not have Mac VMs.

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Resources:

[Amazon YouTube Channel](#) – Amazon provided videos and resources

[AWS](#) - Amazon Web Services (AWS) provides reliable, scalable, an inexpensive cloud computing services.

[AWS EC2](#) - Amazon Elastic Compute Cloud (Amazon EC2) is a web service that provides secure, resizable compute capacity in the cloud.

[AWS Educate](#) - Through AWS Educate, students and educators have access to content and programs developed to skill up for cloud careers in growing fields.

[AWS Educate Office Hours for Educators and Students](#) – Webinars, office hours, and training sessions for educators and students

[Professor Schanke YouTube Channel](#) – Educational resources provided by Professor Schanke