

Webinar Series on Remote Learning

TITLE

Networking in the Cloud - Domain Name System (DNS), Amazon Route 53, and Amazon CloudFront

BRIEF SYNOPSIS

In this introductory webinar, learn about Amazon Route 53, a highly available and scalable Domain Name System (DNS) service. It is designed to give developers and businesses a reliable and cost effective way to route end users to Internet applications by translating names like `www.example.com` into public IP addresses. Amazon Route 53 is fully compliant with IPv6 as well. You will also learn about Amazon CloudFront, a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs with low latency.

This session is suitable for beginners, but it is recommended that you have some understanding of cloud computing prior to joining this session.

SPEAKERS

Steve Sofian
Furin Ongko

SPEAKER BIOS:

Solution Architect, AWS
Technical Program Manager, AWS

DURATION

45 min 34 sec

TIMESTAMPS

[0:00](#) – Speaker Introductions

[13:20](#) – Joining AWS Educate

[16:45](#) – Accessing AWS Console from AWS Educate Starter Account

[16:50](#) – EC2 Configuration

[18:27](#) – Route 53 Configuration

[19:12](#) – Nameservers

[20:01](#) – Create a Hosted Zone

[22:05](#) – Create a Record Set

[26:21](#) – Create an Amazon CloudFront Distribution

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Q&A with Steve Sofian and Furin Ongko

Q: If my AWS Educate account expired after 1 year, can I renew after expiration?

A: AWS Educate accounts will not expire as long as you are enrolled as a student in a school/institution/university. If you need support, please visit this link:

<https://support.aws.amazon.com/#/contacts/aws-educate>

Q: Domains can't be purchased using an AWS Educate Account, it says you are not authorized to access this. Can you please help?

A: AWS Educate starter accounts do not give you the ability to purchase a domain name as it is meant for learning purposes, for which domain name purchase is not necessary.

Q: How many Cloud Pathways do we need to get a certificate?

A: Certificates are not earned by completing a pathway. Completing a pathway earns you credentials that can be shared with employers who posts jobs on Educate's job board.

Q: Is there a way for students and educators to get free credits?

A: AWS Educate provides educators and student credits, USD \$150 & USD \$100, respectively upon sign-up.

Q: After 12months do I need to pay for AWS Educate?

A: AWS Educate is free and no payment is involved as compared to the AWS Free-Tier. The purpose is to provide an environment for learning to educators and students.

Q: I am unable to activate my student account because it demanding credit card, can you help?

A: You can join AWS Educate as student and it will not require credit card.

Q: I am graduating soon and going to a new college, will I need a new AWS Educate account?

A: If you are going to a new college, it would be better to register again with your new college email address.

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Q&A with Steve Sofian and Furin Ongko

Q: Which profile should I select if I'm not a school student but I'm interested in learning?

A: If you are not a school student or an educator, visit <https://www.aws.training/> where you can find resources for learning.

Q: Are there any scholarships available for students to complete certifications?

A: It depends on availability in your country. Some institutions do offer scholarships based on AWS technology.

Q: Due to COVID-19, what options do we have for taking certification exams like Cloud Practitioner?

A: It depends on the certification center and how they're managing the current situation as well as government policies on what are considered essential services.

Q: What is the Solution Architect pathway?

A: It's essentially a pathway for students who are interested in becoming solutions architects. The pathway provides educational resources and information related to becoming an AWS Solutions Architect.

Q: Is there an opportunity to learn about ethical hacking in AWS Educate course material?

A: Not exactly, but you can learn about security in the cloud through AWS Educate.

Q: Are there official video lectures for the AWS Solution Architect exam?

A: Please head to [AWS Training and Certification](#)

Q: How much it is going to take to complete the Solution Architect exam if I start today?

A: You'd need deep technical knowledge into AWS technologies and be able to propose solutions.

Q: Do we get a certificate after completion of any pathway?

A: You get a notification in your profile to let you know that you've completed it. Similar for the badges, you'll get a micro badge attached to your profile.

Q: I want to pursue professional certification, is there any pathway that will help me achieve professional certification?

A: Use AWS Educate and finish up the Cloud Computing 101 pathway. Once done, you can go to [AWS Training and Certification](#) and look for more contents to learn.

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Services

Q: What is a DNS?

A: DNS is domain name service. Instead of typing Public IP, we can type with domain name. To make it happen we need DNS service.

Q: What exactly is a DNS server? How is it different from a nameserver?

A: Every domain name should be hosted and controlled using the nameserver.

Q: What is the difference between CloudFront and CloudFormation?

A: Cloud Front is a CDN, a cache service. While Cloud Formation is IaC, Infrastructure as Code, where you create your infrastructure as code/text.

Q: What exactly is Amazon Route 53?

A: Route 53 is a DNS Service in AWS. We can manage nameservers within the AWS Console.

Q: Do we get free access for Route 53?

A: Yes. Route 53 can be configured within an AWS Educate starter account.

Q: I have an AWS Educate account but I cannot access the Route 53 service. How can I gain access to these services?

A: You can access the Route 53 services and you can create host zones. You cannot purchase domains via an AWS Educate starter account.

Q: Can you suggest portals to buy domain names to better understand Route 53?

A: One such site would be GoDaddy.

Q: What are the services provided by AWS for database services, like Google Firebase?

A: There are different database types being offered and you can look at the following for more information https://aws.amazon.com/products/databases/?nc2=h_ql_prod_db

Q: If I have a domain name from GoDaddy, then can I host it on AWS?

A: Yes you can.

Q: To host a custom domain, will we have to buy a domain from other third-party providers?

A: You can do that directly on AWS or connect it to third-party custom domains.

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RESOURCES

[Amazon CloudFront](#) - Amazon CloudFront is a fast content delivery network (CDN) service that securely delivers data, videos, applications, and APIs to customers globally with low latency, high transfer speeds, all within a developer-friendly environment.

[Amazon CloudFront User Guide](#) – Getting Started with Amazon CloudFront

[Amazon Route 53](#) - Amazon Route 53 is a highly available and scalable cloud Domain Name System (DNS) web service.

[Amazon Route 53 User Guide](#) – Getting Started with Amazon Route 53

[AWS Blogs](#) – AWS Latest News

[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

[AWS Educate Support](#) – AWS Educate Support

[AWS Documentation](#) - Find user guides, developer guides, API references, tutorials, and more.

[AWS Official YouTube Channel](#) – AWS Official YouTube Channel

[AWS Training and Certification](#) - AWS Digital and Classroom Training

[AWS User Groups](#) - User groups are peer-to-peer communities which meet regularly to share ideas, answer questions, and learn about new services and best practices.

[GoDaddy](#) – GoDaddy is a domain registrar and web hosting company that allows users to create free websites.