AWS SysOps Administrator – Associate Level

Course Introduction

What Is Cloud Computing?

Cloud computing refers to the on-demand remote availability of resources, such as computing power, data storage, and networking without requiring any direct management of the resources by the user.

Companies which provide cloud computing services are cloud providers.

Services are made accessible to the users over the internet.

Cloud providers ensure large-scale management of the services.

simplilearn

What Is AWS?

Amazon Web Services (AWS) is one of the top cloud providers in the market that offers over 175 on-demand cloud services. The services are extended to individuals, companies, and governments on a pay-per-use payment model.

Why AWS

AWS offers:

Reliability

Security

Scalability

Cost-Effectiveness

AWS offers a cloud platform that's powering businesses in 190 countries.

History of AWS

2003
Chris Pinkham and Benjamin Black presented the idea of an integrated suite of web services.

2006
AWS was officially relaunched with Amazon S3.

2009
Amazon launched Virtual Private Cloud (VPC).

2004
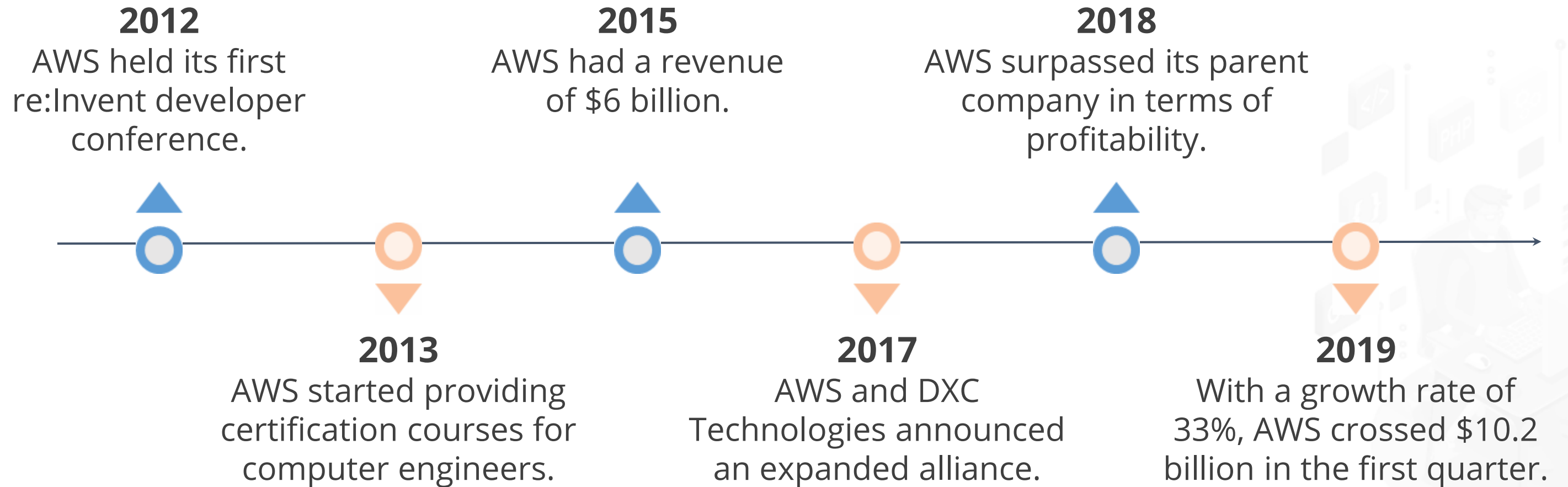AWS released its first service called Simple Queue.

2007
Amazon EC2 service and SimpleDB were launched.

2010
Retail sites of Amazon.com moved to AWS.

History of AWS

2012
AWS held its first re:Invent developer conference.

2015
AWS had a revenue of $6 billion.

2018
AWS surpassed its parent company in terms of profitability.

2013
AWS started providing certification courses for computer engineers.

2017
AWS and DXC Technologies announced an expanded alliance.

2019
With a growth rate of 33%, AWS crossed $10.2 billion in the first quarter.

simplilearn

Market Trends

The worldwide cloud computing market is expected to earn $331.2 billion by 2022.

Salary of AWS Professionals

Demand for AWS Professionals

Demand for AWS professionals is sky-high with twenty million jobs available globally with lucrative salary.

Source: Gartner, CRN, Forbes, Indeed

AWS SysOps Certification

The AWS Certified SysOps Administrator – Associate examination is intended for systems administrators in a systems operations role with at least one year of experience in deployment, management, and operations on AWS.

Source: amazon.aws.com

Certification Prerequisites

AWS Tech Essentials
Certification

1-2 years of experience
as a SysOps
Administrator

Knowledge and experience of AWS
tenets, AWS SDK, API tools, and
networking

Target Audience

- Solution Architects

- Application Developers

- System Administrators

- Operation Analysts

Examination Syllabus

Domain	Weight
Domain 1: Monitoring and Reporting	22%
Domain 2: High Availability	8%
Domain 3: Deployment and Provisioning	14%
Domain 4: Storage and Data Management	12%
Domain 5: Security and Compliance	18%
Domain 6: Networking	14%
Domain 7: Automation and Optimization	12%
TOTAL	100%

Examination Pattern

Response Types

- **Multiple Choice:** One correct response and three or four incorrect responses
- **Multiple Responses:** Two or more correct responses out of five

Unscored Content

- Questions or surveys to collect information about your background and get feedback about the exam experience

Course Objectives

By the end of this course, you will be able to:

- Deploy, manage, and operate scalable, highly available, and fault tolerant systems on AWS
- Implement and control the flow of data to and from AWS
- Select the appropriate AWS service based on compute, data, or security requirements
- Identify appropriate use of AWS operational best practices
- Estimate AWS usage cost, and identify cost control mechanisms
- Migrate on-premises workloads to AWS

Course Outline

1. Course Introduction

2. Getting Started with AWS SysOps

3. Deployment and Provisioning

4. High Availability

5. Storage and Data Management
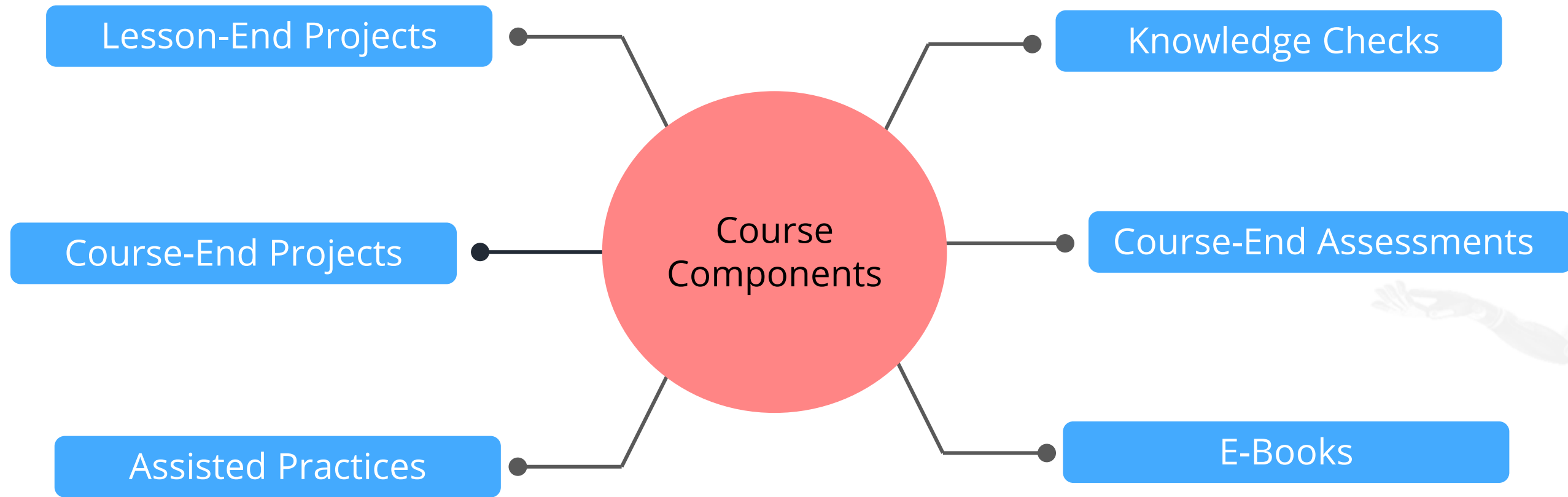
AWS SysOps

6. Security

7. Networking and Route 53

8. Amazon Virtual Private Cloud

9. Automation

10. Additional Features

simplilearn

Course Components

Lesson-End Projects

Course-End Projects

Assisted Practices

Course Components

Knowledge Checks

Course-End Assessments

E-Books

Project Highlights

Project 1

Project 2

Project 3

Set up a website on the cloud with the help of the Web Server (IIS) role, and create a load balancer to attach the instances.

Project Highlights

Project 1

Project 2

Project 3

Implement a team communication solution using Mattermost and AWS, and test the installation by accessing the IP of the public instance.

Project Highlights
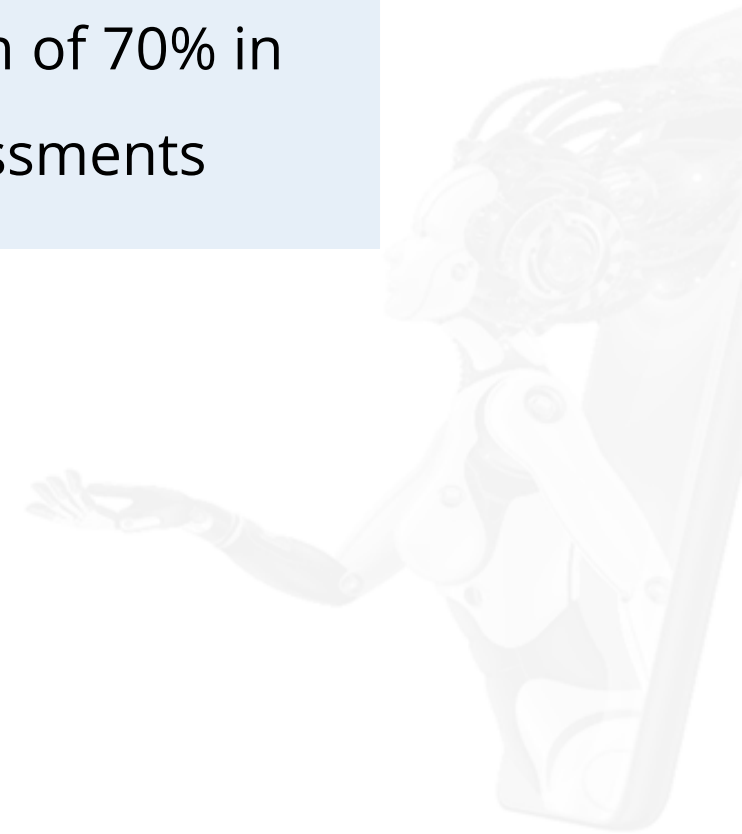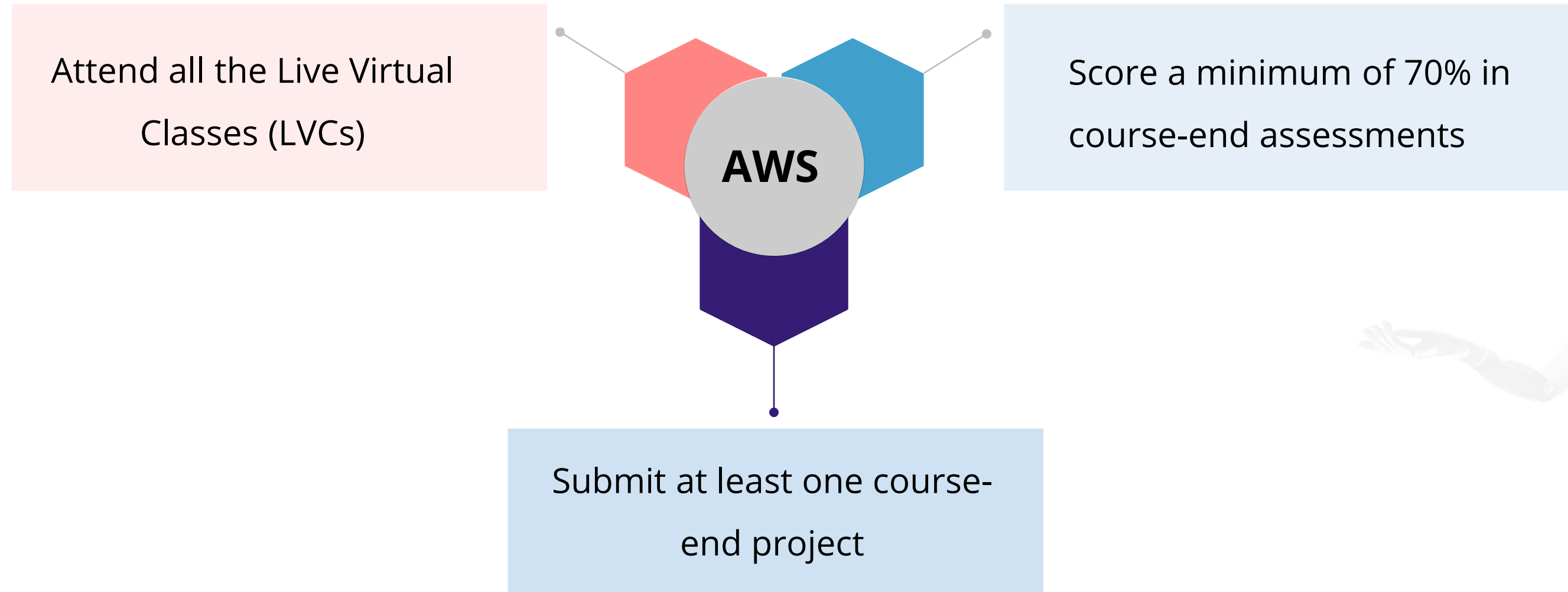
Project 1

Project 2

Project 3

Create a website for a user to configure SQS service for email notification and deletion process in an organization.

simplilearn

Course Completion Criteria

Attend all the Live Virtual Classes (LVCs)

AWS

Score a minimum of 70% in course-end assessments

Submit at least one course-end project