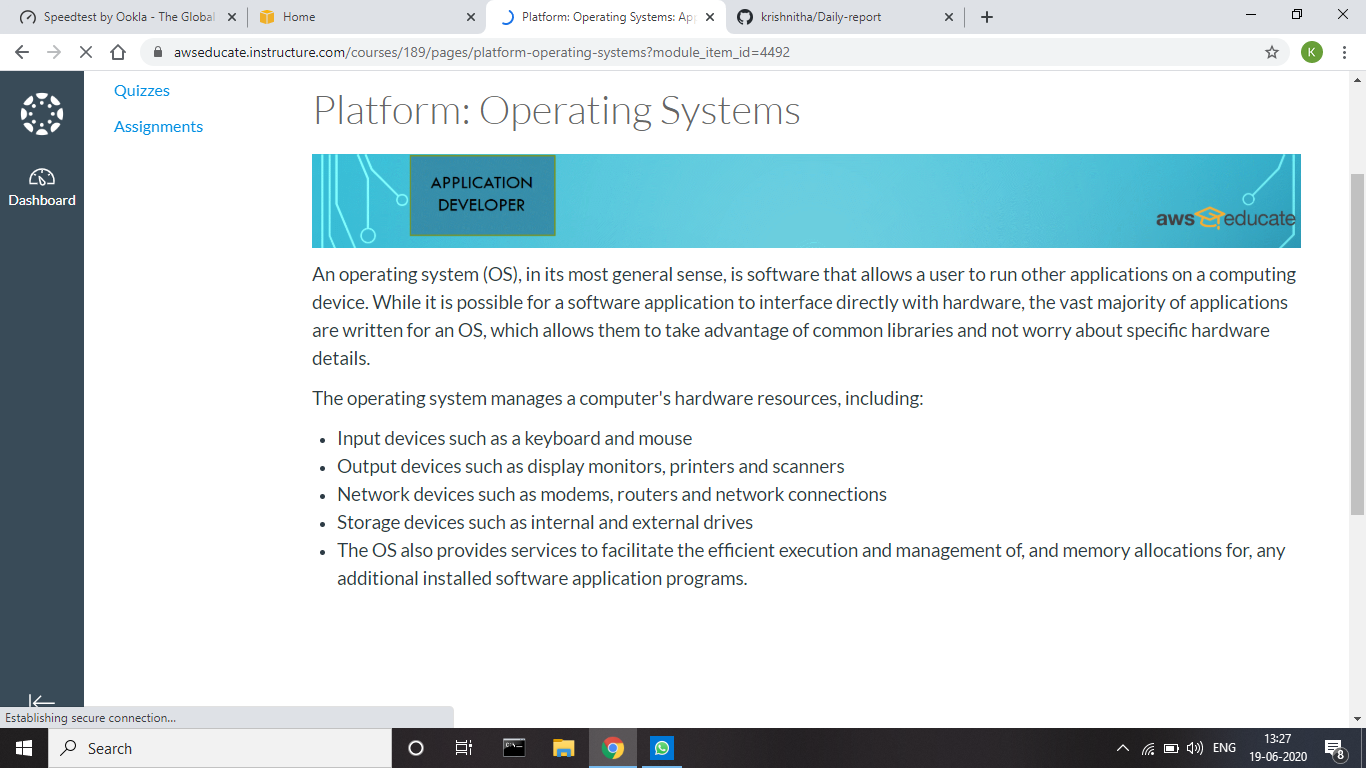
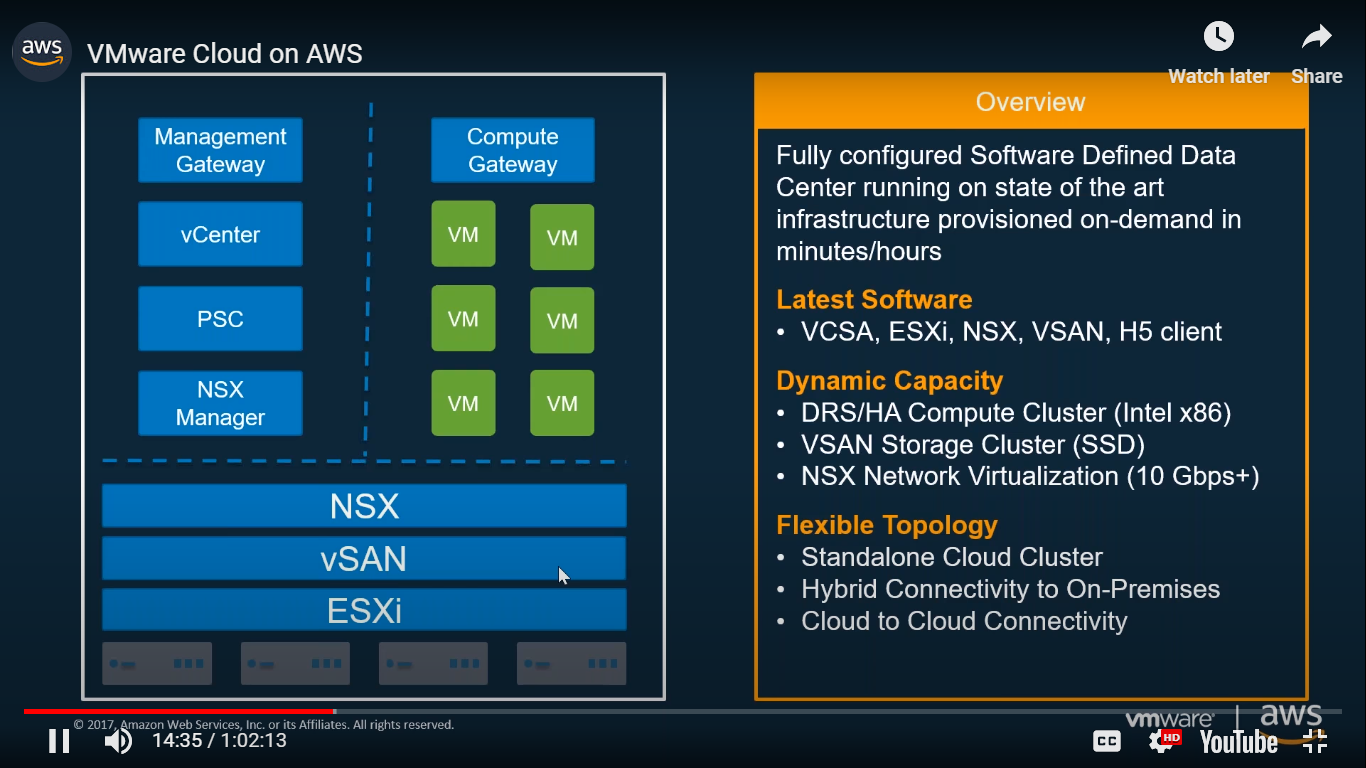
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date:** | 18/06/2020 | **Name:** | Krishnitha |
| **Sem & Sec** | 4th sem, A Section | **USN:** | 4AL18CS039 |
| **Online Test Summary** | | | |
| **Subject** | NA | | |
| **Max. Marks** | NA | **Score** | NA |
| **Certification Course Summary** | | | |
| **Course** | Application Developer | | |
| **Certificate Provider** | AWS Educate | **Duration:** | 3 hrs |
| **Coding Challenges** | | | |
| **Problem Statement:**  Find the smallest positive integer value that cannot be represented as sum of any subset of a given array sorted in ascending order. | | | |
| **Status:** Executed | | | |
| **Uploaded the report in GitHub** | | YES | |
| **If yes Repository name** | | <https://github.com/krishnitha/Java-coding> | |
| **Uploaded the report in slack** | | YES | |

**Certification Course Details:**

Today I have continued the course “Application Developer” by AWS Educate. In this course today I learnt about ‘Platforms’. In this module I learnt about platforms in general and in operating systems and also about platform Virtualization. I have also completed this module by clearing the assessment.





**Coding Challenges Details:**

## Problem: Find the smallest positive integer value that cannot be represented as sum of any subset of a given array sorted in ascending order

## Given a sorted array (sorted in non-decreasing order) of positive numbers, find the smallest positive integer value that cannot be represented as sum of elements of any subset of given set

## 

## Examples:

Input: arr[] = {1, 3, 6, 10, 11, 15};  
Output: 2  
There are no one or more elements to be added up to get sum = 2

Input: arr[] = {1, 1, 1, 1};  
Output: 5  
1 = 1, 1+1 = 2, 1+ 1 + 1 = 3, 1 + 1 + 1 + 1 = 4,  
There is no elements in the array to get sum 5

Input: arr[] = {1, 1, 3, 4};  
Output: 10  
1 = 1, 1 + 1 = 2, 3 = 3, 1 + 3 = 4, 1 + 4 = 5, 1 + 1 +4 = 6, 3 + 4 = 7........  
To get sum 10, there is no elements in the array.

Input: arr[] = {1, 2, 5, 10, 20, 40}  
Output: 4  
There are no elements to get sum = 4.

Input: arr[] = {1, 2, 3, 4, 5, 6}  
Output: 22

**Solution:** Uploaded it in GitHub

