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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Introduction To Internet Of Things (course)



Register for Certification exam

Week 9: Assignment 9

(https://examform.nptel. Your last recorded submission was on 2022-09-26, 23:03 Due date: 2022-09-28, 23:59 IST. IST Course 1) 1 point outline The OpenStack cloud simulation framework provides an interactive Graphical User Interface (GUI) How does an a. True **NPTEL** b. False online course a work? () \bigcirc b Week 0 () 2) 1 point Virtualized resources within the OpenStack simulator that you can define, set parameters of and deploy Week 1 () within OpenStack are also known as Week 2 () a. Instances b. Files Week 3 () c. Hypervisors Week 4 () d. Sketches Week 5 () Oa \bigcirc h Week 6 () с \bigcirc d Week 7 () 3) 1 point Week 8 ()

Week 9 ()	If you want to connect your OpenStack instance with the external public network (like the Internet), you would need to connect the following between your instance and the public network
Cloud Computing- Practical (unit? unit=90&lesson=91)	a. Database b. File c. Memory
Sensor-Cloud- I (unit? unit=90&lesson=92) Lecture 43: Sensor-Cloud- II (unit? unit=90&lesson=93)	d. Router a b c d d 1 point
Cecture 44 : Fog Computing- I (unit? unit=90&lesson=94)	Which among the following is NOT a part of a sensor node connected to a wireless sensor network. a. Sensing unit b. Gaming unit
Cecture 45 : Fog Computing- II (unit? unit=90&lesson=95)	c. Processing unit d. Communication unit
Lecture material of Week 9 (unit? unit=90&lesson=96)	○ c ○ d 5) 1 point
Quiz: Week 9: Assignment9(assessment?name=170)	Consider that you have two types of sensors, soil monitoring sensor for smart farming and temperature sensor for smart industry. The concept that the correct (right) type of sensor must be deployed only at their correct and appropriate physical location suitable as per their functionalities is known as
Week 9 Feedback Form (unit? unit=90&lesson=97)	a. Right way of deployment b. Right place of deployment c. Right time of deployment d. None of these
Download Videos ()	○ a○ b○ c○ d
Text Transcripts ()	6) 1 point

Live Interactive Session ()

Problem Solving Session () Sensor-as-a-Service (Se-aaS) is an exciting new concept that brings the service models of cloud computing to traditional IoT sensor networks. In this aspect, which among the following forms an essential component of a Se-aaS architecture.

- a. Sensor marketing
- b. Sensor division

	c. Sensor virtualization
	d. Sensor manufacturing
Оа	
o b	
Ос	
\bigcirc d	
7)	1 point
	the end-to-end architecture of a WSN, from the physical sensor nodes right up to the users, d supports different entities to have ownership of the different layers and components asly.
	a. True
	b. False
Оа	
o b	
8)	1 point

In sensor cloud architecture the Sensor Cloud Service Provider (SCSP) is logically situated at the following position of the architecture

- a. In the same level as the physical sensors
- b. In between the physical sensors and the user layer
- c. In the same level as the users
- d. None of these

o b			
Ос			
\bigcirc d			

9) **1 point**

Оа

In senso	or cloud, the association between virtual sensor instances and the corresponding physical sensors
	a. one to one mapping
	b. one to many mapping
	c. many to one mapping d. many to many mapping
	d. many to many mapping
Оа	
o b	
Ос	
○d	
10)	1 point
Dynam	ic caching mechanism improves the flexibility and efficiency of sensor cloud.
	a. True
	b. False
	o. Table
Оа	
o b	
11)	1 point
	ect to the caching based architecture of a sensor cloud, the External Cache (EC) has a direct data n with which among the following
	a. The Internal Cache (IC)
	b. The user applications
	c. Physical sensors
	d. Both physical sensors and Internal Cache (IC)
a	
\bigcirc b	
Ос	
\bigcirc d	
12)	1 point

then a res way data seconds. I	an IoT device is transferred to cloud via a network, which is then processed at the cloud and ponse is sent back to the IoT device from the cloud after processing. The time it takes for one-transfer between the node and cloud is 10s and the data processing time at the cloud is 'x' takes a total of 25s for the entire to and fro transfer of data between the sensor and cloud along essing at the cloud. What is the value of x?
	a. 10s
	b. 5s
	c. 15s
	d. 20s
Oa	
Ор	
O c	
\bigcirc d	
13)	1 point
immediate utilities of	two types of sensor data, A and B. A is time sensitive that is required to be processed ly, while B is not time sensitive and can tolerate longer time for processing. As per the standard cloud and fog computing, which among the following options show the correct processing for A and B.
	a. A:Cloud, B: Fog
	b. A: Fog, B: Cloud
	c. None of these
	d. Both of these
Оа	
o b	
Ос	
\bigcirc d	
14)	1 point
There can t the top.	be multiple fog nodes in between the physical sensor layer at the bottom and the cloud layer at
	a: True
	b. False
a	
Ob	
15)	1 point

a. Power consumption
b. Data security
c. Reliability
d. All of these
○ a
○a ○b
Ос
d
You may submit any number of times before the due date. The final submission will be
considered for grading. Submit Answers