

Course outline

How does an NPTEL online course work?

Week 0

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Lecture 36 : Introduction to DOCKER Container

Lecture 37: Green Cloud

Lecture 38 : Sensor Cloud Computing

Lecture 39 : IoT Cloud

Lecture 40 : Course Summary and Research Areas

Lecture material of Week 8

Quiz: Week 8 : Assignment 8

Week 8 Feedback Form

Text Transcripts

Books

Download Videos

Assignments Solution

Week 8 : Assignment 8

Assignment not submitted

Due date: 2021-10-20, 23:59 IST.

- 1) In the context of Green Cloud Computing, the Power Usage Effectiveness is defined as 1 point
 - a) Power Delivered / Overall Power
 - b) Overall Power / Power Delivered
 - c) Overall Power * Power Delivered
 - d) None of these

☐ a
☒ b
☐ c
☐ d
- 2) _____ reduce the overhead of resource management by using light-weight virtualization. 1 point
 - a) Containers
 - b) Virtual machines
 - c) Both a and b
 - d) Neither a nor b

☒ a
☐ b
☐ c
☐ d
- 3) Each container can not run as an isolated process in user space. 1 point
 - a) True
 - b) False

☐ a
☒ b
- 4) --- runs completely isolated from the host environment by default, only accessing host files and ports if configured to do so. 1 point
 - a) Image
 - b) Container
 - c) Compose
 - d) None of these

☐ a
☒ b
☐ c
☐ d
- 5) Docker engine is a tool for defining and running multi-container Docker applications. 1 point
 - a) True
 - b) False

☐ a
☒ b
- 6) Which of the following procedure helps to reduce data center cooling cost in an energy efficient way? 1 point
 - a) Build servers that run at lower temperatures
 - b) Build servers that run at higher temperatures
 - c) Deploy fewer VMs
 - d) Deploy more VMs

☐ a
☒ b
☒ c
☐ d
- 7) Which of the following statements are True? 1 point
 - a) Virtual sensor is an emulation of a physical sensor that obtains its data from underlying physical sensors
 - b) Virtual sensors act as an image in the software of the corresponding physical sensors
 - c) Physical sensors contain metadata about the virtual sensors and the user currently holding that physical sensor
 - d) Physical sensors provide a customized view to users using distribution and location transparency

☒ a
☒ b
☐ c
☐ d
- 8) --- get virtual access to host resources through a hypervisor. 1 point
 - a) Containers
 - b) Virtual machines
 - c) Both a and b
 - d) Images

☐ a
☒ b
☐ c
☐ d
- 9) In the context of Green Cloud Computing, the DC Server Energy Model is contributed by 1 point
 - a) CPU
 - b) Memory modules
 - c) Disks
 - d) None of these

☒ a
☒ b
☒ c
☐ d
- 10) For sensor resources that do not have direct connection to the cloud, sensor network proxy provides the connection. 1 point
 - a) True
 - b) False

☒ a
☐ b

