

# Unit 3 - Week 1

Course outline
How does an NPTEL online course work?
Week 0 Assignment 0
Week 1
• Introduction to Cloud Computing
• Virtualization
• Hotspot Mitigation for Virtual Machine Migration
• Week 1: Lecture material
○ Quiz : Assignment-1
○ Week 1 - FEEDBACK
• Assignment-1 Solution
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## Assignment-1

The due date for submitting this assignment has passed. Due on 2020-02-12, 23:59 IST.  
 As per our records you have not submitted this assignment.

1) Utility computing is a model where service provider 1 point

Makes computing resources available to the customer as needed  
 Makes computing resources available to the customer for some amount of time  
 Can't say – implementation dependent

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Makes computing resources available to the customer as needed*

2) Google docs is an example of \_\_\_\_\_ 1 point

Infrastructure-as-a-Service (IaaS)  
 Platform-as-a-Service (PaaS)  
 Software-as-a-Service (SaaS)  
 None of the mentioned

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Software-as-a-Service (SaaS)*

3) Google App Engine is an example of \_\_\_\_\_ 1 point

Infrastructure as a service (IaaS)  
 Platform as a Service (PaaS)  
 Software as a service (SaaS)  
 None of the mentioned

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Platform as a Service (PaaS)*

4) True or False ? 1 point

Live migration refers to the process of moving a running virtual machine or application between different physical machines without disconnecting the client or application.

True  
 False

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*True*

5) True or False ? 1 point

Cloud computing is a distributed computing model.

True  
 False

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*True*

6) Which of these statements are correct? 1 point

Statement-1: Moore's law indicates that processor speed doubles every 18 months.

Statement-2: Gilder's law indicates that network bandwidth has doubled each year in the past.

Only statement 1 is correct  
 Only statement 2 is correct  
 Both statements are correct  
 Both statements are false

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Both statements are correct*

7) The goals of virtual machine monitor (VMM) are: 1 point

Fidelity  
 Performance  
 Safety & isolation  
 All of the mentioned

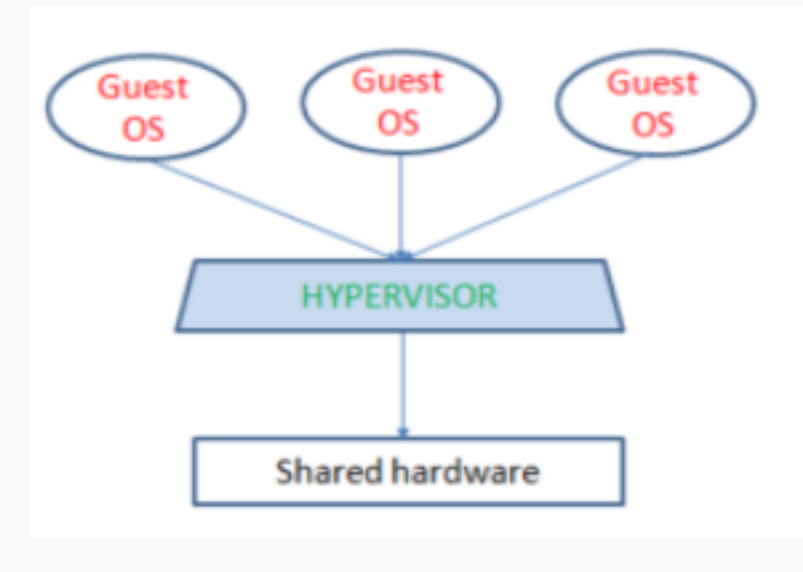
**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*All of the mentioned*

8) Which delivery model is an example of a cloud computing environment that provides users access to Virtual Machines? 1 point

Software as a service (SaaS)  
 Infrastructure as a service (IaaS)  
 Platform as a Service (PaaS)  
 Application as a Service (AaaS)

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Infrastructure as a service (IaaS)*

9) Which type of Hypervisor is shown in the following figure ? 1 point



Type 1  
 Type 2  
 Type 3  
 None of the mentioned

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Type 1*

10) Consider the following regarding the Sandpiper architecture: 1 point

P. Control Plane	I. Decide how much to allocate
Q. Migration Manager	II. Monitor resources
R. Profiling Engine	III. Determine where to migrate
S. Hotspot Detector	IV. Centralized server
T. Nucleus	V. Detect when a hotspot occurs

P: I,Q: II, R:III, S:IV, T:V  
 P: III,Q: V, R:I, S:IV, T:II  
 P: IV,Q: III, R:I, S:V, T:II  
 P: III,Q: IV, R:I, S:V, T:II

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*P: IV,Q: III, R:I, S:V, T:II*

11) Which of the following figure is the example of Hypervisor-Direct Model: 1 point

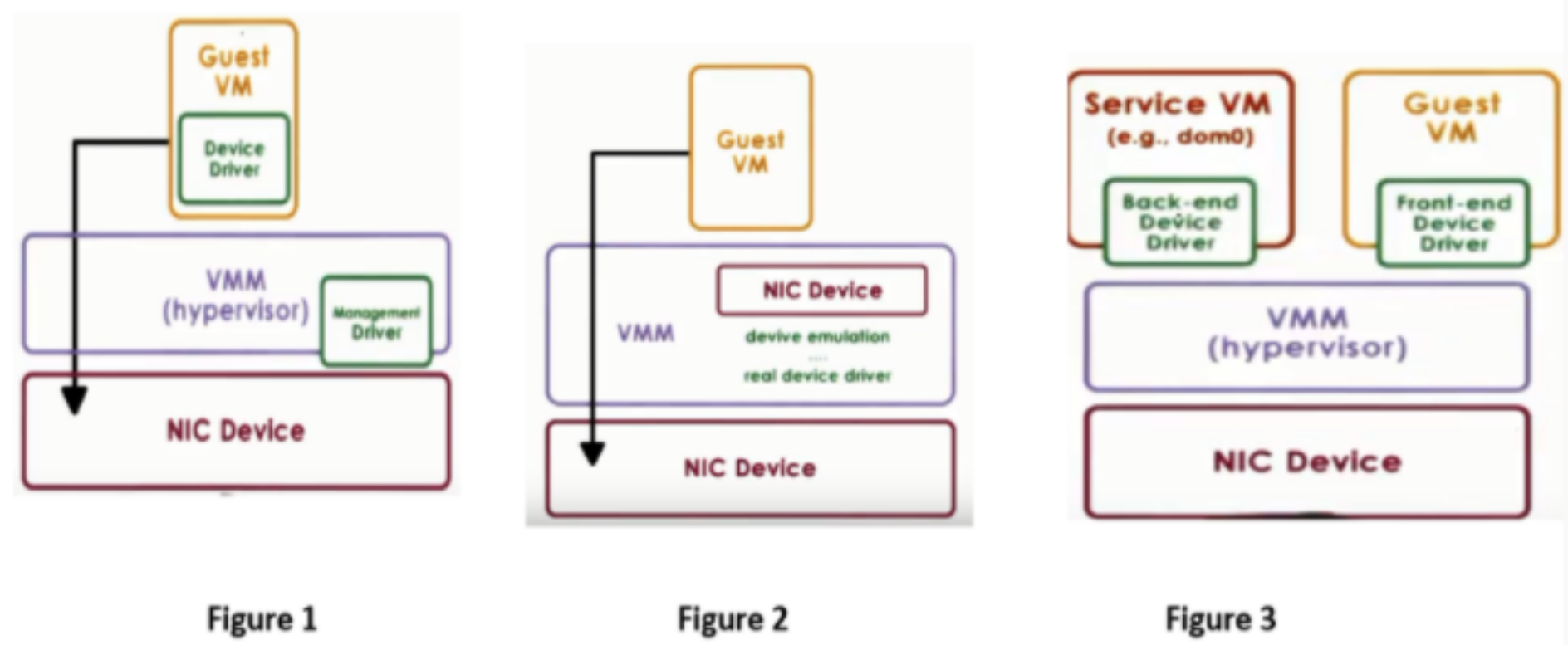


Figure 1  
 Figure 2  
 Figure 3  
 None of the mentioned

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Figure 2*

12) Which of the following type of virtualization is found in hypervisor such as Microsoft's Hyper-V ? 1 point

Paravirtualization  
 Full virtualization  
 Emulation  
 None of the mentioned

**No, the answer is incorrect.**  
 Score: 0  
**Accepted Answers:**  
*Paravirtualization*