

CLO # 1: Learn about the concepts of the fundamental cloud computing.

Q1: From the given options, select the best answer. Cutting or over-writing will be marked zero.

[16 marks]

1. A group of independent IT resources that are interconnected and work as a single system:

(a) Cluster

(b) Computing Grid

(c) Cloud

(d) None of the given options

2. Pre-defined ready-to-use environment exists as _____ offering:

(a) IaaS

(b) PaaS

(c) SaaS

(d) NaaS

3. _____ refers to a distinct IT environment that is designed for the purpose of remotely provisioning scalable and measured IT resources.

(a) Cluster

(b) Computing Grid

(c) Cloud

(d) None of the given options

4. The replacing an IT resource with another that has a lower capacity is referred to as:

(a) Scaling out

(b) Scaling In

(c) Scaling Up

(d) Scaling Down

5. IBM Smart Cloud is an example of:

(a) Public Cloud

(b) Community Cloud

(c) Private Cloud

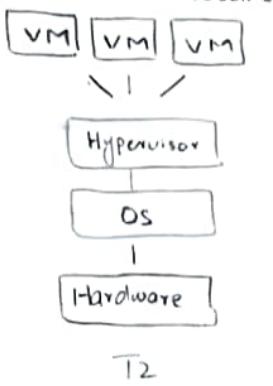
(d) Hybrid Cloud

National University of Computer and Emerging Sciences

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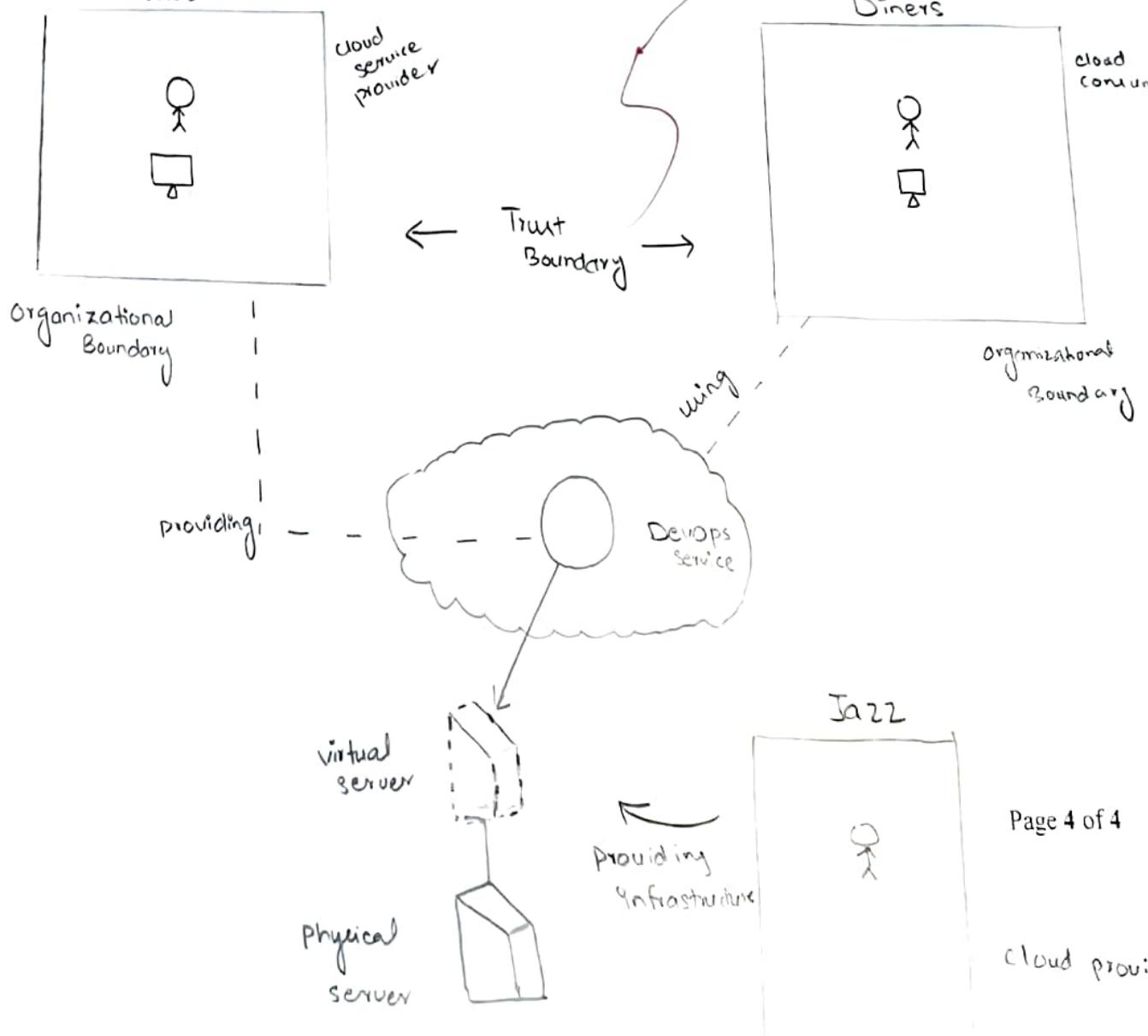
Q3: With the help of diagrams, provide a difference between type 1 hypervisor and type 2 hypervisor.

Diagrams should be self-explanatory. Do not write long sentences beating around the bush. [4 marks]

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Q4: Make an architecture depicting an organization 7Vals is providing DevOps services to a clothing brand Diners using cloud infrastructure provided by a cloud provider Jazz. [5 marks]

7Vals



it can be **false** if we see country regulations

15. True or False? A person sitting in China can **deploy resources** in AWS US Virginia region.

(a) True

~~(b) False~~

16. Which component of AWS global infrastructure does Amazon CloudFront use to ensure low-latency delivery?

(a) AWS Regions

(b) AWS Availability Zones

(c) AWS Edge Locations

(d) Amazon VPC

10

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Q2: Make an architecture depicting that "NUMUN VM" deployed in an organization VDC network "ISBVPC01" and "FLEX VM" deployed in an organization VDC network "LHRVPC04". "ISBVPC01" exists in organization VDC "ISBCampusVDC" and "LHRVPC04" exists in organization VDC "LHRCampusVDC". Both VDCs are virtually connected via their respective Edge Service Gateways and are part of a cloud organization "FAST". [5 marks]

FAST

