Conclusion

School of Software

Faculty of Engineering and Information Technology

University of Technology Sydney

SCHOOL OF **SOFTWARE**

Learning Objectives

- None in this part of the lecture !!!!
- Let us recap what has been taught during the

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Recapitulation

- What is Cloud Computing – Introduction (Week 1)
  - History of Cloud Computing
  - What is Cloud Computing?
  - Cloud Attributes
  - Types of Cloud Services
  - Cloud Computing Adoption Hurdles

- Cloud Architecture (Week 2)
  - NIST Reference Architecture
  - IBM Reference Architecture
  - Cloud Deployment Models

Recapitulation

- Infrastructure as a Service (Week 3)
  - Different types of services provided by Amazon Web Services (AWS)
  - AWS-based web application hosting
  - IaaS lab

- Platform as a Service (Week 4)
  - Architecture and working of Google App Engine (GAE)
  - Architecture and working of Force.com
  - Migrating to the cloud – the business case
  - PaaS lab

Recapitulation

- Software as a Service (Week 5)
  - Integration between in-house software and SaaS
  - Integration as a Service
  - IaaS and PaaS lab

Recapitulation

- Virtualization and Multi-tenancy (Week 6)
  - Different types of virtual machines
  - Elastic Provisioning
  - Elastic Operations
  - Applications of virtualization in enterprises
  - Enterprise Application level virtualization (Multi-tenancy)
    - Approaches for implementing multi-tenancy in enterprises
  - Virtual Machine Check pointing
  - Achieving security through virtualization measures
  - Virtualisation case study (tutorial)

Recapitulation

- Cloud Applications, Objects, Validation and Interface (Week 7)
  - Force.com Objects
  - Force.com Tabs
  - Object fields
  - Validation rules
  - Relationships between objects
  - Page layout
  - Force.com PaaS lab covering the above

Recapitulation

- Cloud Applications and Data Security (Week 8)
  - Using *"Profiles"* for securing
    - Force.com application
    - Force.com objects
    - Force.com tabs
    - Fields in the objects
  - Securing records of a given object
    - Organization-wide default
    - Role Hierarchy
    - Sharing Rules
    - Manual Sharing Rules
  - Force.com PaaS lab covering the above

Recapitulation

- Automating and Implementing Workflows (Week 9)
  - Workflow Rule
  - Workflow Action. Types of workflow actions:
    - Workflow action as an *"email alert"*
    - Workflow action as *"field update"*
    - Workflow action as a *"task"*
    - *"Time-based Workflow"* action(s)

  - Force.com PaaS lab covering the above

Recapitulation

- Automating and Implementing Approvals (Week 10)
  - Single-step approvals
  - Multi-step approvals

  - Force.com PaaS lab covering the above

Better understanding of cloud computing
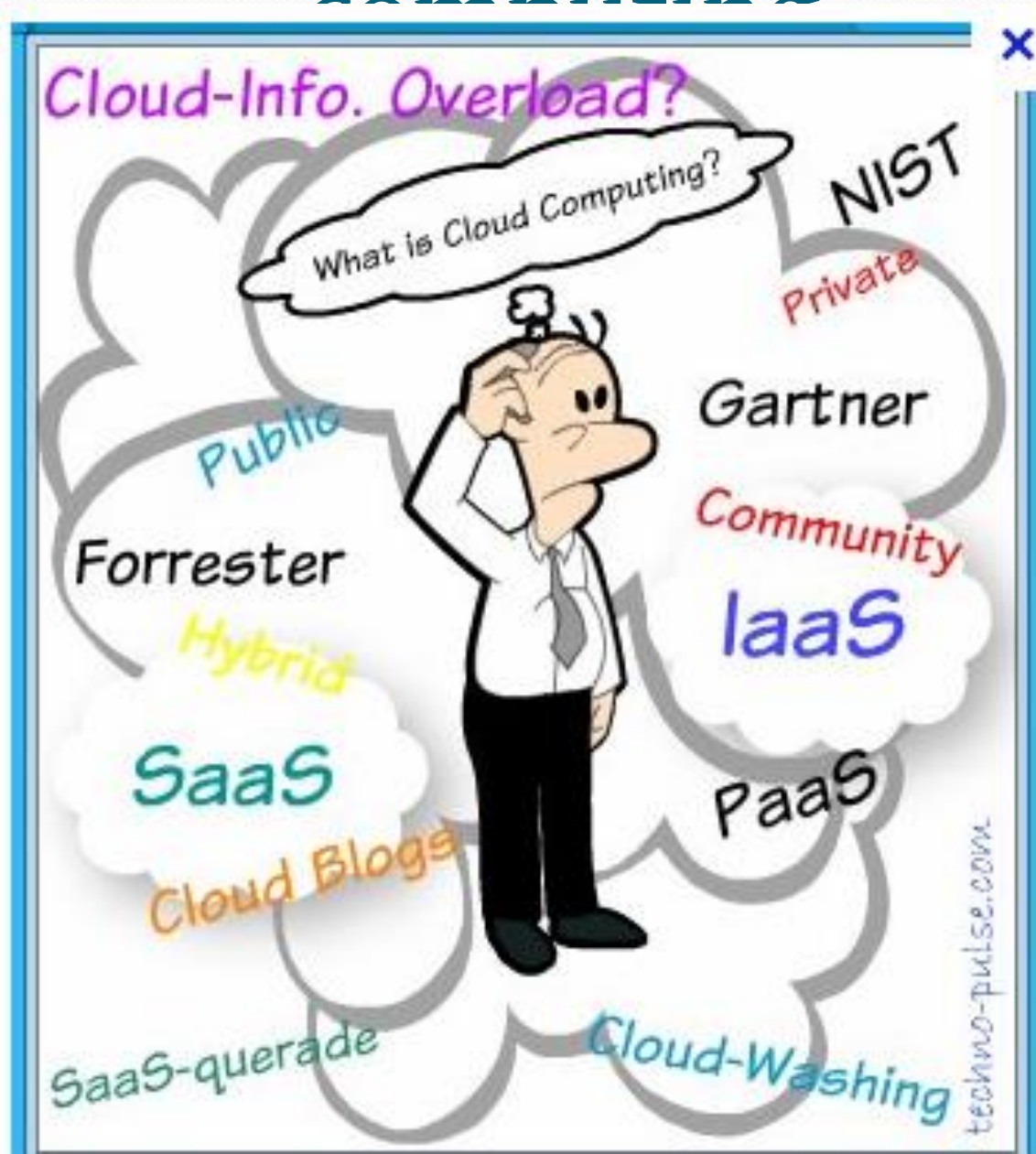
Exam instructions for undergraduate students (41001)

- There are twenty questions in total.

- Answering all questions is mandatory

- Marks allocated to each question have been mentioned against it

- Please answer the questions using the General-Purpose Answer Sheet.

- Time Allowed: 120 minutes.

- Reading time: 10 minutes.

Exam instructions for postgraduate students (42904)

- There are twenty-five questions in total.
- Answering all questions is mandatory
- Marks allocated to each question have been mentioned against it
- Please answer the questions using the General Purpose Answer Sheet.
- Time Allowed: 120 minutes.
- Reading time: 10 minutes.

Example MCQ

Computing platforms are comprised of

    (a) Hardware resources such as servers, memory, load balancers ... etc.

    (b) Software frameworks such as programming language environments, support libraries ...etc.

    (c) Both of the above

    (d) None of the above.

Scope of the examination

- The examination questions <u>will not</u> cover
  - Lecture 7;
  - Lecture 8;
  - Lecture 9;
  - Lecture 10.

- The examination questions will test your understanding of the taught subject material

What next?

- Final semester of your course/studies?

What next?

- In the midst end of your course/studies?
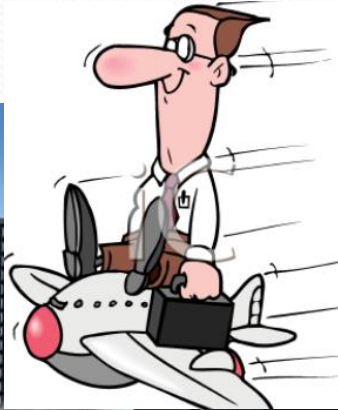 - "Study Hard" and "Study Smart"

The joy of learning

Considering pursuing studies in Cloud Computing?

- Further coursework/research:
  - Please contact me at Farookh.Hussain@uts.edu.au for further information
  - I will help you to put in touch with relevant staff members, who can provide you with quality advise and guidance in your research program

Thank you very much!!

- Thank you very much for your attention
- It has been my absolute pleasure knowing each one of you
- I thank you very much for attending and taking this subject
- Keep in touch