

SIT706

Cloud Computing Technology

Week 1
Unit Information

Announcement



SIT706 Week 1

2

Outline

- Unit Introduction
 - Welcome
 - Unit Staff
 - Textbooks
 - Topics
 - Unit Site
 - NetLab+ VE
 - GLOs
 - ULOs
 - Assessment
 - eValueate

SIT706 Week 1

3

Welcome

- Introduce myself.
- What do I know about my students?

Campus	Courses
Burwood	D371, D380, S306, S326, S327, S334, X009S
Cloud	D371, D380, S306, S326, S334

SIT706 Week 1

4

Welcome

- Diverse group of students:
 - Master of Cyber Security
 - Master of Cyber Security (Professional)
 - Master of Data Science
 - Master of Information Technology
 - Master of Information Science
 - Master of Information Technology (Professional)
 - Master of Information Technology Leadership
 - and more

SIT706 Week 1

5

Unit Staff

- Dr Morshed Chowdhury
- Roles: Unit Chair and Lecturer
- Coordinating: Cloud (Online)
- Office: T2.12
- Email: morshed.chowdhury@deakin.edu.au
- Contact Phone No. : (03) 925 17478

SIT706 Week 1

6

Unit Staff

TUTORS:

- MOHAMMAD BELAYET HOSSAIN
 - Email: mbhossai@deakin.edu.au
 - Lab Sessions:
 - Thursday: 4-5:50pm, Lab: B4.03
 - Friday: 2-3:50pm, Lab: T1.06

SIT706 Week 1

7

Unit Staff

TUTORS:

- Rolden Fereira
- Email: r.fereira@deakin.edu.au
 - Lab Sessions:
 - Wednesday: 3-4:50pm, Lab: B3.02
 - 5-6:50 pm, Lab: B4.03

SIT706 Week 1

8

Unit Staff

TUTORS:

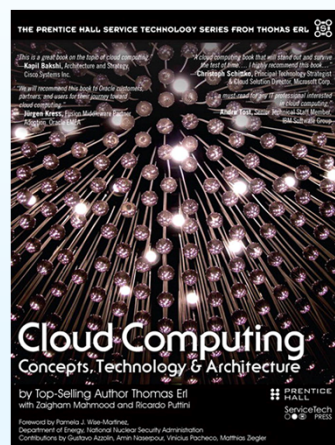
- Ms. Amna Batool
 - Email: a.batool@deakin.edu.au
 - Lab Sessions:
 - Friday: 10-11:50 AM, Lab: B3.02
 - 12-1:50pm, Lab: B3.02

SIT706 Week 1

9

Prescribed textbook

Thomas Erl,
*Cloud Computing: Concepts,
 Technology & Architecture*,
 Prentice Hall, 2013.



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10

Recommended textbook

Dan C. Marinescu,
Cloud Computing: Theory and Practice
Morgan Kaufmann; Elsevier

SIT706 Week 1

11

Topics

- Week 1. Introduction
- Week 2. Clouds in Context
- Week 3. Cloud Technology
- Week 4. Advance Cloud Mechanism
- Week 5. Cloud Architectures
- Week 6. Virtualisation
- Week 7. Storage
- Week 8. Networking
- Week 9. Working with Clouds
- Week 10. Cloud Application Architectures
- Week 11. Review

SIT706 Week 1

12

SIT706 Unit Site

- The SIT706 unit site is accessible from:
 - DeakinSync <https://sync.deakin.edu.au>
 - CloudDeakin <http://www.deakin.edu.au/clouddeakin>
- Take the time to get familiar with the resources available in the unit site.
- Make sure you check back regularly!

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13

SIT706 Unit Site

- The unit site contains:
 - News / Announcements
 - Discussion Forum
 - Class Slides and Recordings
 - Weekly Practical Tasks
 - Assessment Tasks and Submission
 - And other useful resources!

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14

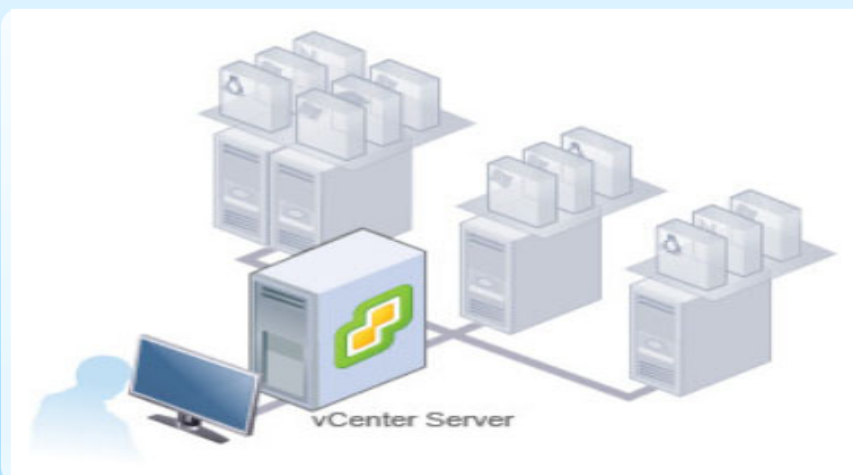
NetLab+ VE

- <https://vmlab.it.deakin.edu.au/>
- Access to the “NetLab+ VE” virtualization system
- Access to the “VMware vSphere Install, Configure, and Manage” certification curriculum
- Used during practical classes
- If you have problem to get access to the NetLab then contact Robert Ruge email: robert.ruge@deakin.edu.au

SIT706 Week 1

15

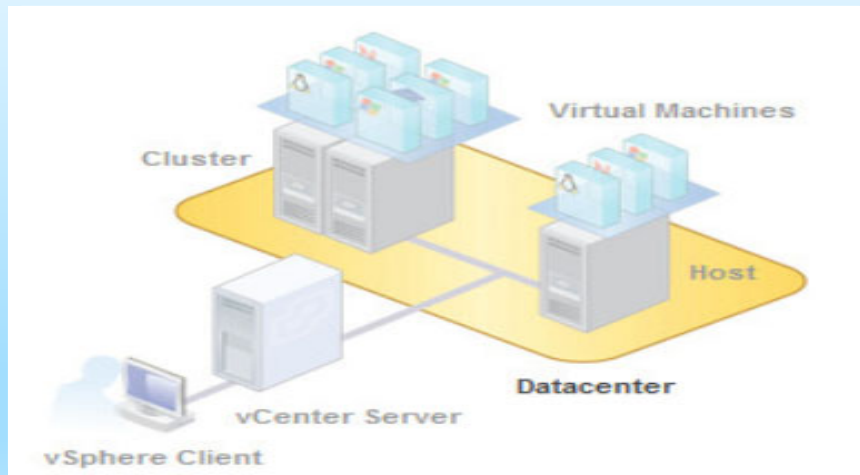
NetLab+ VE



SIT706 Week 1

16

NetLab+ VE



SIT706 Week 1

17

Deakin Graduate Learning Outcomes

1. **Discipline-specific knowledge and capabilities:** appropriate to the level of study related
2. **Communication:** using oral, written and interpersonal communication to inform, motivate and effect change
3. **Digital literacy:** using technologies to find, use and disseminate information

SIT706 Week 1

18

Deakin Graduate Learning Outcomes

- 4. **Critical thinking:** evaluating information using critical and analytical thinking and judgment
- 5. **Problem solving:** creating solutions to authentic (real world and ill-defined) problems

SIT706 Week 1

19

Deakin Graduate Learning Outcomes

- 6. **Self-management:** working and learning independently, and taking responsibility for personal actions
- 7. **Teamwork:** working and learning with others from different disciplines and backgrounds
- 8. **Global citizenship:** engaging ethically and productively in the professional context and with diverse communities and cultures in a global context

SIT706 Week 1

20

Unit Learning Outcomes

- SIT706 Unit Learning Outcomes:
- At the end of this unit, students will be able to:
 1. utilise a range of cloud computing tools and technologies to design and analyse cloud computing systems
 2. evaluate the characteristics and applications of cloud-based and non-cloud solutions to discuss potential benefits, risks and peculiarities from a technical and non-technical perspective
 3. evaluate given requirements and select the most appropriate cloud technology to solve given computing problems

SIT706 Week 1

21

Administrative Information

Student Commitment

- Students will on average spend 150 hours over the trimester undertaking the teaching, learning and assessment activities for this unit.
- This will include 4 face-to-face contact hours per week (1 x 2-hour lecture and 1 x 2-hour tutorial) and online problem based exercises.
- All students are expected to do the weekly practicals
- For on-campus students, attendance at their allocated sessions each week is considered part of the unit requirements and is therefore compulsory.

SIT706 Week 1

22

Assessment

- SIT706 Assessment:
 - 40%: Two assignments (20% each)
 - 60%: Final examination (The date is scheduled by the University)

SIT706 Week 1

23

Administrative Information

❖ Assignments Submission:

- You must upload the **correct** file in a correct **format** through CloudDeakin by the due date. It is recommended that you submit your assignment well before the submission deadline.
- Any submission beyond the deadline, be it one second, one minute, one hour or one day, will receive the appropriate late penalty. The time CloudDeakin records will be used as the exact time a file is submitted.
- An assignment is only considered submitted if it is in CloudDeakin **dropbox**.
- Resubmission after the assignment deadline will NOT be accepted
- Absolutely **NO** email submission will be accepted.

SIT706 Week 1

24

Administrative Information

❖ Assignments Submission:

- Failure to ensure the following will result in a **zero mark** for that assessment piece. It is your responsibility to:
 - **ensure** that the correct and final version of your assignment has been submitted to CloudDeakin by the deadline.
 - **verify** that the correct file in a correct format was successfully submitted to the CloudDeakin on due date.
 - **check (use Turnitin)** the originality content of your submission.

SIT706 Week 1

25

Administrative Information

❖ Late Assignments Submission:

- Students who do not submit by the due date will have their mark reduced. The Faculty rule for this states:
 - *Work submitted late without documented approval of the Unit Chair or Lecturer will be penalised. Assignments that are submitted after the submission date will be subject to a mark penalty equal to **10%** of the marks per day of the marks available for the piece of work, up to and including **five days** after the published due date. Assignments submitted more than three days after the published submission date will not be marked.*
- You should talk to your unit chair if you require an extension.

SIT706 Week 1

26

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❖ Achieving Goals

- You will be responsible for much of what you learn in this unit.
 - The lectures and practicals only discuss issues and pose questions for you to think about.
 - The best place to begin is to organise your reading and study time.

SIT706 Week 1

27

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❖ Students with a disability

- Students with a disability which affects their access to learning materials or classes are strongly urged to acquaint themselves with the Disability Resource Centre on their campus. As well, such students might like to discuss their special needs with the unit chair.
- There are Disability Liaison Officers on each campus. You may visit the following link:
 - <http://deakin.edu.au/equity-diversity/disability-services.php> or contact them by email: drcentre@deakin.edu.au or phone or visit.

SIT706 Week 1

28

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❖ Communication with Lecturers

- Email Communication
 - Include unit code in the subject line; a meaningful subject description; your full name and student number;
 - Provide sufficient details in the body of the message;
 - Ensure your reply to address is correct.
 - We will respond within **48 hours** to emails received during working hours
- Online Discussion Forum:
 - Discussion forum is **not a venue** to post questions to the lecturers. Please contact directly your lecturer instead.

SIT706 Week 1

29

Assessment

Grade	Requirements to achieve Grade
High Distinction (HD)	A student must achieve all ULOs and obtain an overall mark of at least 80 to receive a high distinction grade (HD).
Distinction (D)	A student must achieve all ULOs and obtain an overall mark of at least 70 to receive a distinction grade (D).
Credit (C)	A student must achieve all ULOs and obtain an overall mark of at least 60 to receive a credit grade (C).
Pass (P)	A student must achieve all ULOs and obtain an overall mark of at least 50 to receive a pass grade (P).
Fail (N)	A student that does not achieve all ULOs or does not obtain an overall mark of at least 50 will receive a fail grade (N). If a student does not achieve all ULOs but achieves a mark of 50 or more, their final result will be 44 N .

SIT706 Week 1

30

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❖ Important Information

~~Plagiarism
&
Cheating~~

SIT706 Week 1

31

Administrative Information

❖ **Plagiarism and Collusion Policies**

- The University's definitions of plagiarism and collusion are as follows:
 - **Plagiarism** occurs when a student passes off as the student's own work, or copies without acknowledgment of its authorship, the work of any other person.
 - **Collusion** occurs when a student obtains the agreement of another person for a fraudulent purpose with the intent of obtaining an advantage in submitting an assignment or other work.
 - **Penalties** - you should note that the University views plagiarism/collusion very seriously and may impose serious penalties that include a reprimand, a fine, allocation of a zero mark; suspension/ exclusion of the student for a minimum of one year.
- If you have any doubt as to what constitutes authorised or unauthorised collaboration, consult with your lecturer.
- The University policy of plagiarism and collusion is available:
<https://policy.deakin.edu.au/download.php?id=79&version=1>

SIT706 Week 1

32

Administrative Information

❖ Road Map to Pass this unit?

Tips:

- Attend lecture, practical regularly.
- Start doing assignment at least **3-4 weeks** before dead line.
- If you do not understand any topic feel free to see your lecturer.
- Do not do plagiarism.

SIT706 Week 1

33

eValuate

- eVALUate: Deakin Online Student Evaluations
<http://www.deakin.edu.au/evaluate>
 - Towards the end of the teaching period you may be emailed a link to the unit evaluation survey (<http://www.deakin.edu.au/evaluate/>).
 - I encourage you to participate, as constructive feedback from students will assist us to make improvements to this unit where necessary.

SIT706 Week 1

34

eValuate

- In previous versions of this unit, students have told us that these aspects of the Unit have helped them to achieve the learning outcomes:
 1. VMware labs to understand concepts
 2. access to VMware labs during practicals and outside of practicals
 3. practicals were well made, informative, enjoyable, and helped with the lecture content
 4. classes support assessment tasks

SIT706 Week 1

35

SIT 706



Questions

SIT706 Week 1

36