

Module/ Unit	Ind. Home work #	Group Project #	Lab #	Module Name/Unit Name	Content/Synopsis	Duration	When	URL
Module 1				Introduction to Cloud Computing			Thurs 1	
Unit 1				Form study groups, ensure you have the materials required	Facilitated activity: - Form study groups - Get to know your group mates - Exchange contact information so that you can continue your collaboration even outside the class hours. Materials required: A laptop (pc, mac or linux) purchased within last two years with 4GB RAM (Administrative access required) A USB thumb drive 4GB or larger USB headphone compatible with Skype/Webex (in cases when class connects online) At home, please set up a quiet area without dogs barking and birds chirping. Kids will always wander in (it is the kids' home, after all) but be prepared to mute so you don't disturb others in the class. Materials (optional – nice to have): A 3-ring 1" binder, a writing pad, a pen, and a highlighter Housekeeping/ Logistics: Google Mail Setup Piazza Online Course Communication Platform (Also for reporting issues you may run into) Remote Sessions on Sundays: NJIT Webex (Optional)	2:00	Thurs 1	
Unit 2				What is Cloud Computing?	17 minute video plus discussion	0:30	Thurs 1	http://youtu.be/j7WJgbe8qoQ
Unit 3				A View of Cloud Computing	Video and PPT plus discussion	0:15	Thurs 1	Handout in Piazza
Unit 4				Native Apps vs Web Apps	30 minute video and review a few Web Apps	1:00	Thurs 1	http://youtu.be/tj-gZLgOWQL
Unit 5			1	Lab: Google Apps for Business - Open a free gmail account	yourfirstnameMTA@gmail.com e.g. LarisaMTA@gmail.com	0:15	Thurs 1	
Unit 6	1			Homework: On Introduction to Cloud Computing	Post your response to Piazza: - Name any three industry providers of SAAS. - Name any three industry providers of PAAS. - Name any three industry providers of IAAS. - Describe the pros and cons of private versus public clouds. - Describe which situations may force a business to opt for a private cloud.	1:00		
Unit 7	2			Homework: On Native vs. web apps	Post your response to Piazza: - Describe usage scenarios best served by web apps and those better suited by native apps? - From a business standpoint, when is it most appropriate to develop a web app and not a native app?	0:30		
Unit 8	3			Homework: Federal Cloud Computing Strategy	Post your response to Piazza: Extra credit:How does the Federal strategy impact MTA as a whole, and your department in particular?	1:00		
Remote Session				Sunday Evening Session #1	Review Individual Homework #1 and #2. Discuss Individual Homework #3	4:00	Sun 1	
Module 2				Google Apps and Office 365		3:00	Thurs 2	
Pre-class	5			Review video	Overview of SAAS using Google Docs	0:15		
Pre-class	6			Review video	Overview of SAAS using Office 365	0:30		
Unit 1				Web App Hands On:Google Docs	Discussion	0:30	Thurs 2	
Unit 2				Web App Hands On:Office 365	Discussion	0:30	Thurs 2	
Unit 3		1	2	Group Lab: Share Google App document with your Team	Post your response to Piazza: - Group Leads:Create a workbook with columns First Name, Middle Initial, Last Name, New Gmail Id., and Work Phone Number - Enter your details and pass on the location/filename to your team members and the instructor (arvind@thencta.com) via Google Mail. Team Members: Update the workbook at the Piazza location with you details - All participants: Screen capture and post in a Google Doc to Piazza with your name included in the filename	0:30	Thurs 2	
Unit 4			2	Lab: Setting up Office 365	Everyone in class spend time signing up and setting up	0:30	Thurs 2	

Unit 5	7			Homework: On Google Apps vs. Office 365.	Post your response to Piazza: Imagine yourself as a consultant to help migrate office to the cloud for a client (not MTA). - Identify customer needs (make reasonable assumptions), analyze pros/cons, compare and contrast Google Apps for Business & Office 365 - Make a clear recommendation with assumptions, business and technical justification.	1:00		
Unit 6	8			Homework: Web App exercise:Office 365 Document	- Sign-up for your own free trial of Office 365. Setup, configure and complete required installation - Use the Office 365 account via a web browser to create a Word document with a "Hello Instructor" message, share/email that word document with your instructor (arvind@thencta.com). Remember to do this without opening the Microsoft Office Word or any other similar native applications that you might have on your real computer.	1:00		
Unit 7		2		Group project: Analyze Office 365 Enterprise E3 strategy for MTA	MTA is migrating to Office 365. Right now, they are focusing on email. Construct a roadmap for migrating to the remaining tools in Office 365 Enterprise E3 like Lync, Sharepoint, Windows Azure [see URL on right] Teams of 2 should focus on one of these tools and implementation plan over a 3 year period for your dept and 5 years across MTA. [No point wasting time on Word, Excel, PPT or Outlook]. Presentation in class after the break on 04/24. Only PPT needed; writeup optional.	1:00		http://office.microsoft.com/en-us/business/office-365-enterprise-e3-business-software-FX103030346.aspx
Remote Session				Sunday Evening Session #2	Review Individual Homework. Group Project: First pass to discuss your proposed plan for Office 365 Enterprise E3 strategy for MTA.	4:00	Sun 2	
Week 3				Intervening week (no class, no Sunday session)	Group continues to work on Office 365 presentation targeted to their department decision makers.			
Module 3				SAAS:Software as a Service				
Pre-class	9			Review video	Other SAAS examples	0:30		
Pre-class	10			Review video	Signing up for AWS	0:30		
Pre-class	11			Read	Amazon publication: Overview of Amazon Web Services	1:00		
Pre-class	12			Optional	Amazon Elastic Compute Cloud	0:30		
Unit 1		2		Group Project continued:	Group Project Presentation: Each group presents for 15 minutes (another group will act as department decision maker). Teams of 2 to present a different Office 365 technology Structure: Explain the technology at a high level. Describe a use case - How it is done today, anticipated changes, benefits and potential pitfalls.	1:00	Thurs 3	
Unit 2				SaaS Examples	Discussion	0:30	Thurs 3	
Module 4				IAAS:Infrastructure as a Service				
Unit 1			3	Lab: AWS Account Setup and Configuration		0:30	Thurs 3	
Unit 2				Amazon Web Services(AWS):	Discuss publication: Overview of AWS	1:00	Thurs 3	http://media.amazonwebservices.com/AWS_Overview.pdf
Unit 3				Amazon Web Services(AWS):	Discuss Elastic Compute Cloud(EC2)	1:00	Thurs 3	http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/concepts.html
Unit 4			4	Lab: AWS Account Setup and initial configuration	Set up an account with AWS in your region(remember this). Sign up for the AWS Free Usage Tier. Free Tier is available only for new users who get a FREE EC2 micro instance. CAUTION:You may incur charges based on your usage pattern. Free Tier includes 750 hours of Linux and Windows Micro Instances each month for one year. Stay within the Free Tier, use only EC2 Micro instances.	0:30	Thurs 3	
Unit 5				Explore AWS Case Studies	Discuss case study	1:00	Thurs 3	http://aws.amazon.com/search?searchQuery=&searchPath=case-studies&x=16&y=19
Unit 6	13			Homework: On SAAS	Post your response to Piazza: Compile a list of ten distinctly different examples of SAAS solutions (research the Internet) in an Office 365 Word document. Provide an elevator pitch on each solution.	1:00		
Unit 7			3	Homework: On IAAS	Group Project: Analyze any three cases to compare and contrast the Amazon services used.	1:00	Thurs 3	

Remote Session			Sunday Evening Session #3	Homework #9:Present your findings as a group (informally)	4:00	Sun 3	
Module 5			Content Management System(CMS): Wordpress and Drupal			Thurs 4	
Pre-class	14		Review Domain Name System(DNS) Video	Domain Name System(DNS): Naming system for resources - computers/services connected to the Internet or a private network	0:05		
Pre-class	15		Buy a domain name	Search for "Cheap Domain Names" using Google. Sign up using the site that provides the lowest cost usually \$0.99.	0:30		
Pre-class	16		Wordpress.com: Wordpress software delivered as SAAS	View video	0:30		
Pre-class	17		DrupalGardens.com: Drupal software delivered as SAAS by Aquia	View video	0:28		
Unit 1		3	Group Project continued:	Group Project Presentation: 15-min Group Presentation on AWS Case study findings.			
Unit 2			Wordpress.com: Wordpress software delivered as SAAS	Discussion on video	0:30	Thurs 4	
Unit 3			5 Signup and configure Wordpress	Signup for a free account Select a new theme and configure Wordpress	0:30	Thurs 4	
Unit 4			DrupalGardens.com: Drupal software delivered as SAAS by Aquia	Discussion on video	0:30	Thurs 4	
Unit 5			6 Signup and configure Drupal	Signup for a free account Select a new theme and configure a Drupal site	0:30	Thurs 4	
Unit 6		4	Homework: Using a CMS	Group Project: Use WordPress or Drupal Use case: your Doctor wants to set up a website with online appointment scheduling, automatic phone call-back, and Google analytics. One plug-in contributed by each member. Circulate URL: Domain name/drupal OR Domain name/wordpress	1:00		
Unit 7	18		Homework: On Email Integration with Domain Name	Point your domain to your Google Mail account. Email the instructor (arvind@thencta.com) via a domain email address you have setup.	0:30		http://youtu.be/dkFkXmrgbW4
Final exam			Weekend Day/Time TBD	Multiple choice questions	1:00	Sun 4	
Remote Session		4	Sunday Evening Session #4	Discuss answers to exam questions, groups present their website and experience with modules	3:00	Sun 4	

22:18

Legend

Week of Class
Pre-Class Review
Individual Homework
Group Homework
In-Class Lab
Remote Webex Session
Off Week