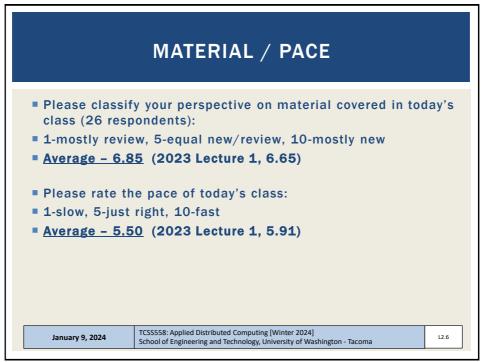
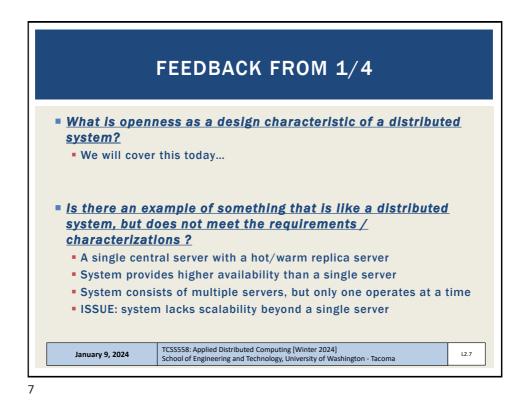
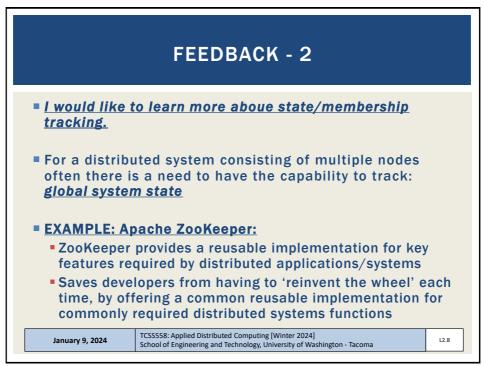


ONLIN	E DAILY FI	EEDBACK SURVEY
-	vailable for com sys: due by Wed	
	≡ TCSS 558 A >	Assignments
	Winter 2021 Home	Search for Assignment
	Announcements Assignments	 Upcoming Assignments
	Zoom Chat	TCSS 558 - Online Daily Feedback Survey - 1/5 Not available until Jan 5 at 1:30pm Due Jan 6 at 10pm -/1 pts
January 9, 2024	TCSS558: Applied Distributed (School of Engineering and Tecl	Computing [Winter 2024] hnology, University of Washington - Tacoma

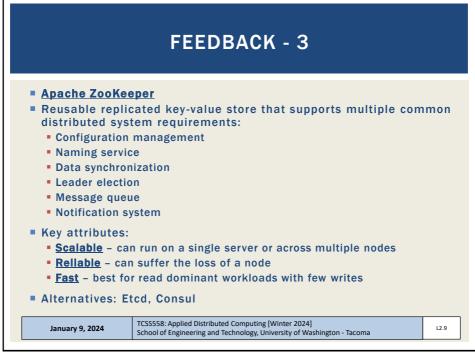
	Jan 6 at i lable Jar			o ints 1 Jan 6 at		om 1 day		ime Lim	it None	2
	Quest	ion 1								0.5 p
	On a s class:	cale of 1	1 to 10, j	please cl	assify yo	our persp	ective o	on mater	ial cove	red in today'
	1 Mostly Review	2 V V To Me	3	4	5 Equal w and Re	6	7	8	9	10 Mostly New to Me
D	Quest	ion 2								0.5 p
	Please	rate the	e pace of	today's o	class:					
	1	2	3	4	5	6	7	8	9	10
	Slow			J	ist Right					Fast

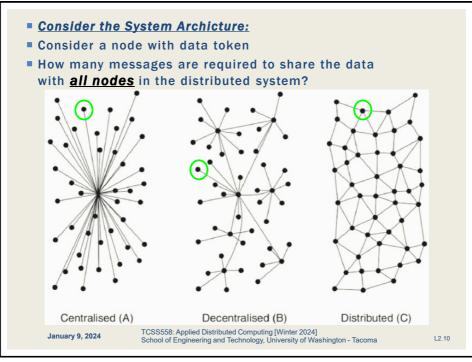


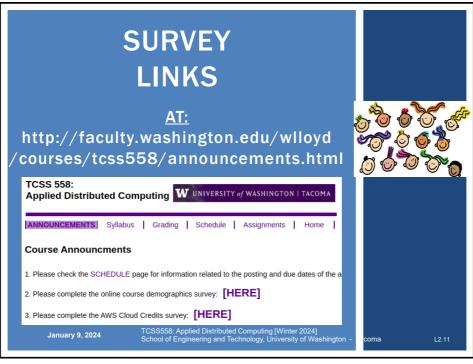


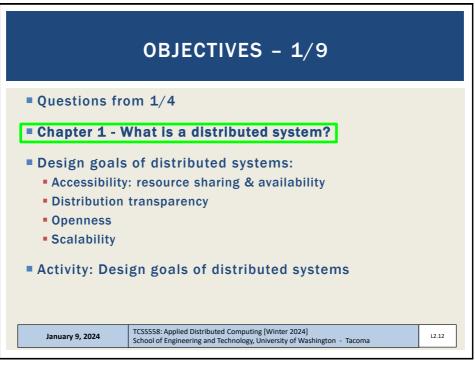


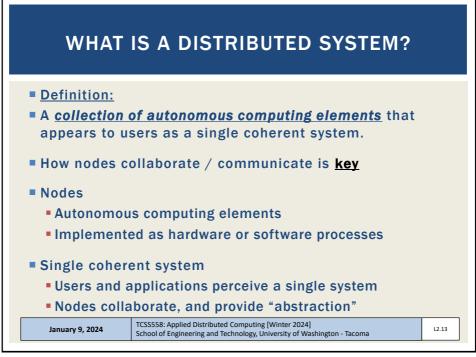


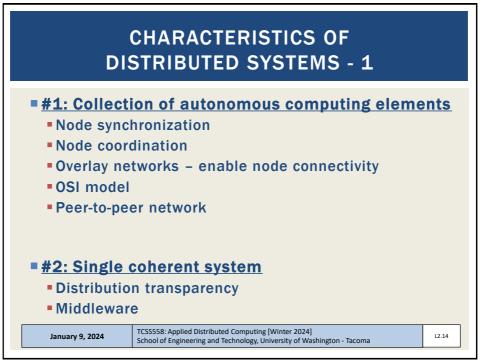








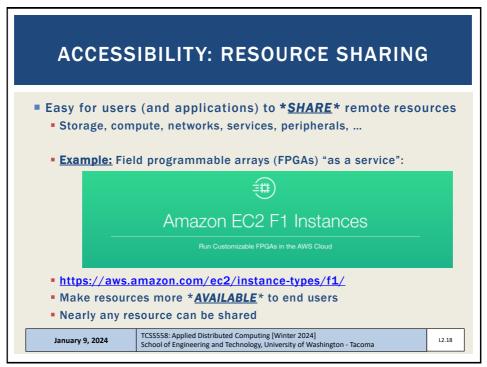




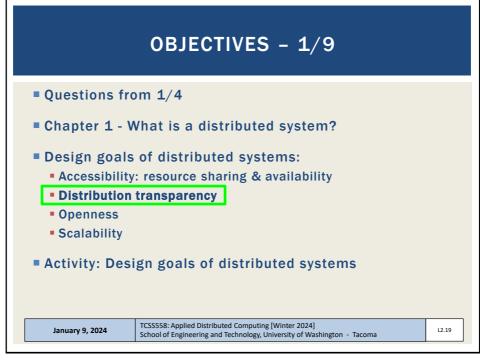
	OBJECTIVES - 1/9
Questions fr	om 1/4
Chapter 1 - V	What is a distributed system?
Accessibility	s of distributed systems: y: resource sharing & availability i transparency
Activity: Des	sign goals of distributed systems
January 9, 2024	TCSS558: Applied Distributed Computing [Winter 2024]

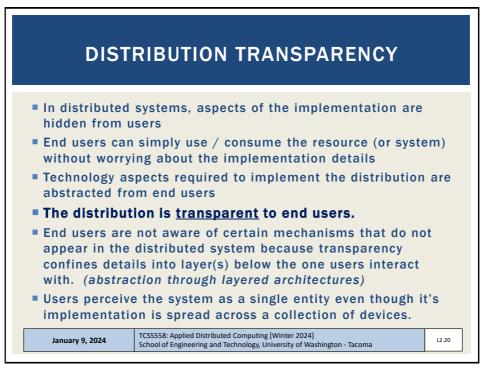


	OBJECTIVES – 1/9
Questions f	rom 1/4
Chapter 1 -	What is a distributed system?
Design goal	s of distributed systems:
Accessibili	ty: resource sharing & availability
Distribution	n transparency
Openness	
Scalability	
Activity: De	sign goals of distributed systems



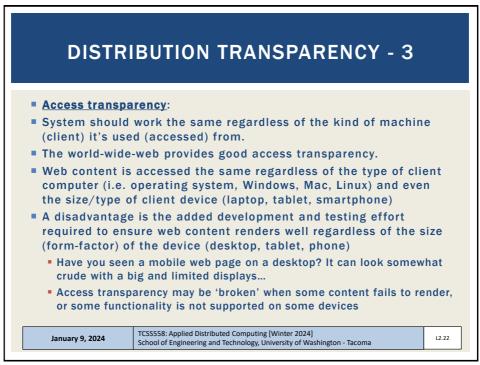


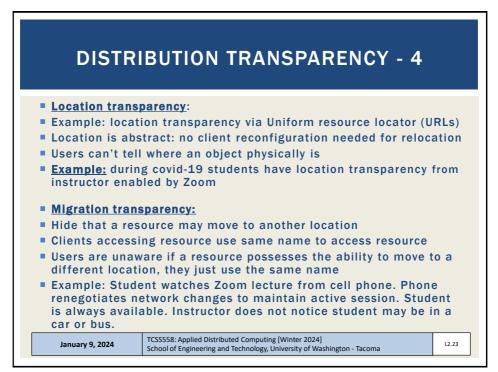


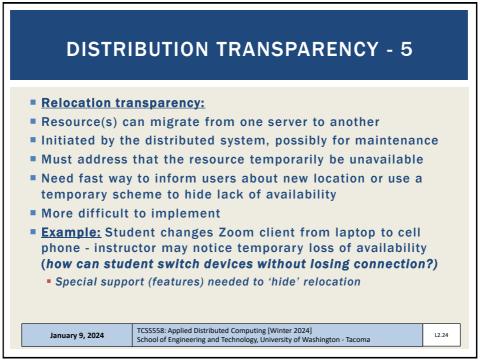


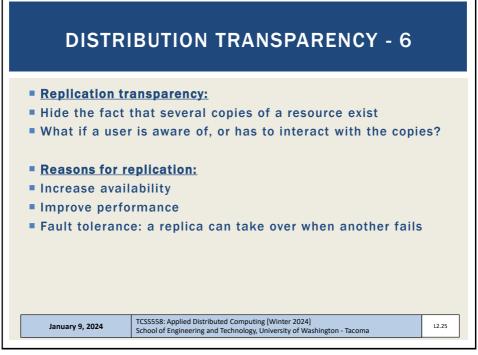


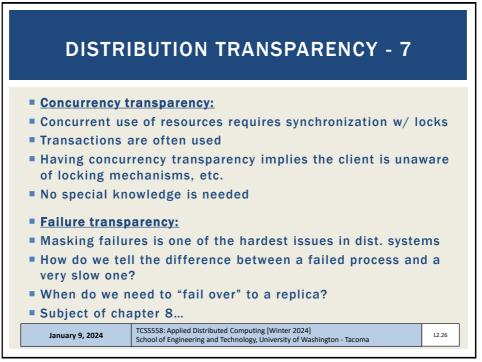
DISTRIBUTION TRANSPARENCY - 2				
Types of distribution transparency				
Object is a resource or a process				
Transparency	Description			
Access	Hide differences in data representation and how an object is accessed.			
Location	Hide where an object is located			
Migration	Hide that an object may move to another location			
Relocation	Hide that an object may be moved to another location while in use			
Replication	Hide that an object is replicated			
Concurrency	Hide than an object may be shared by several independent users			
Failure	Hide the failure and recovery of an object			
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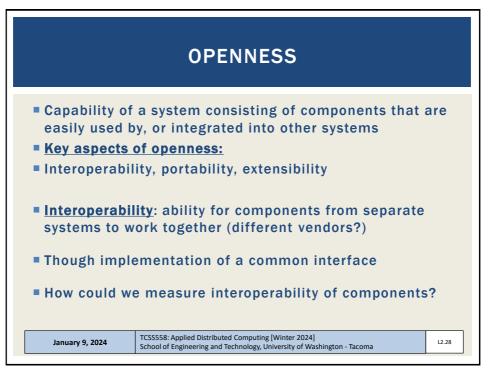




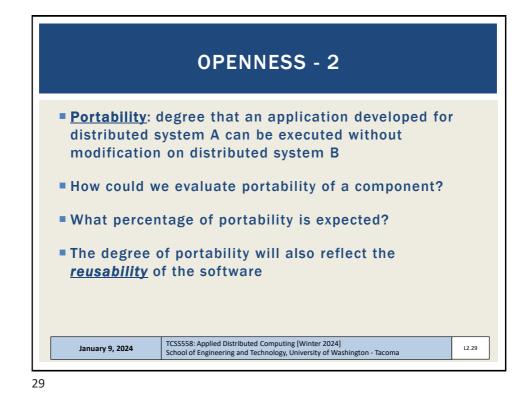


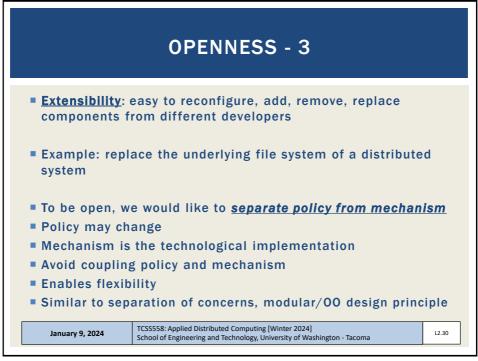


Chapter 1 - V	What is a distributed system?
 Distribution Openness Scalability 	r: resource sharing & availability transparency ign goals of distributed systems

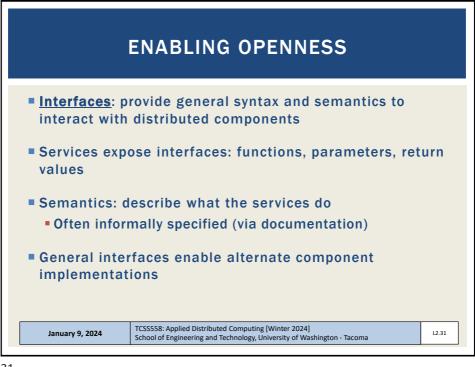


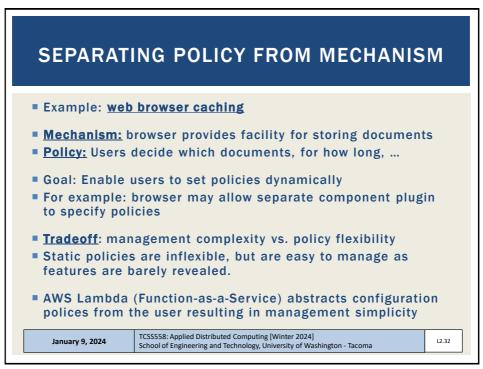


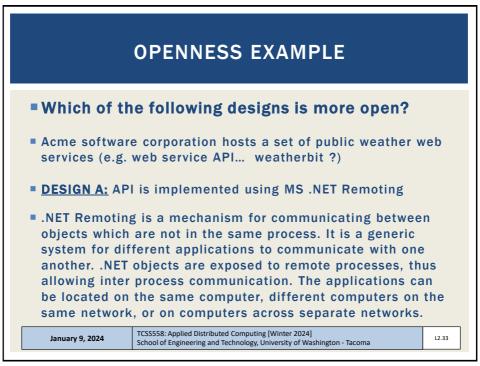


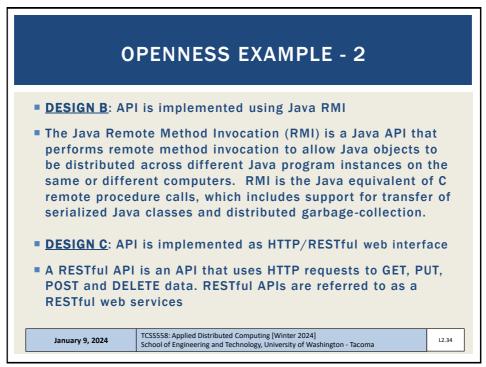


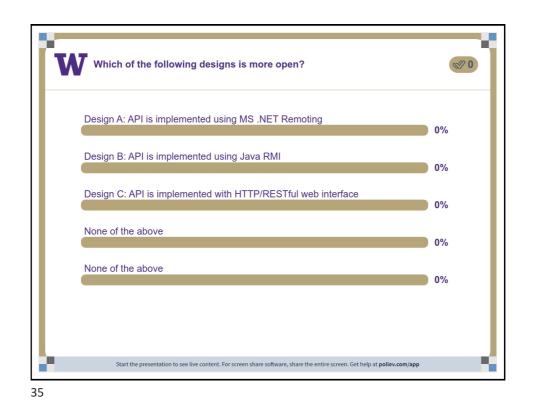


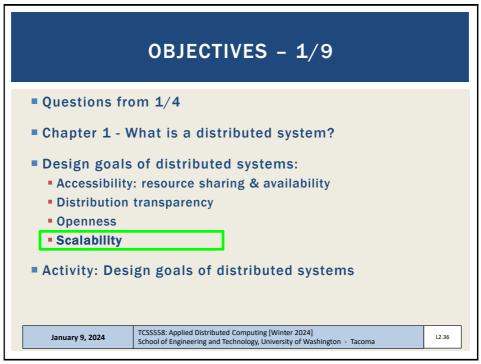


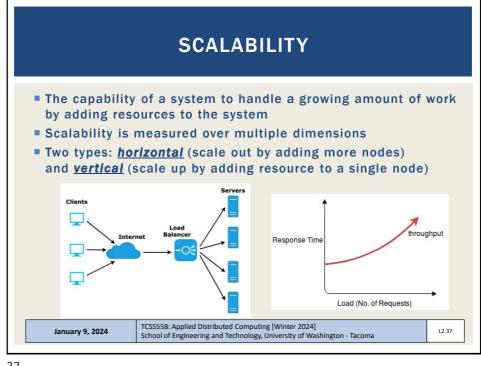


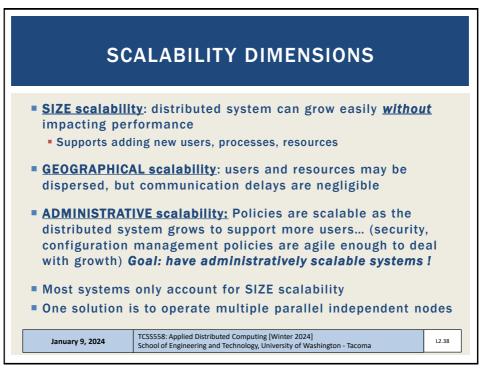












	SIZE SCALABILITY
Centralized	architectures have limitations
coordinato	int a single central r/arbitrator node can't keep up d server: limited CPU, disk, network capacity
Lloyd W, Pallickara S,	uires surmounting bottlenecks David O, Lyon J, Arabi M, Rojas K. Migration of multi-tier applications
	service clouds: An investigation using kernel-based virtual machines. D), 2011 12th IEEE/ACM International Conference on 2011 Sep 21 (pp.
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