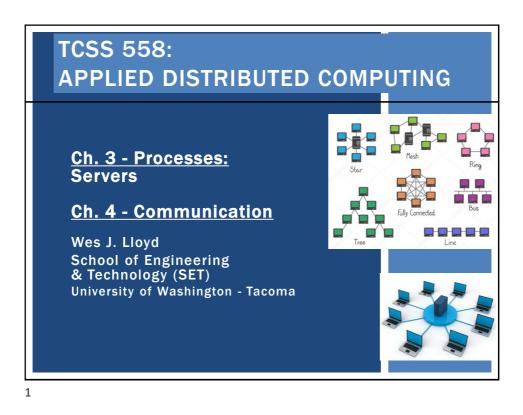
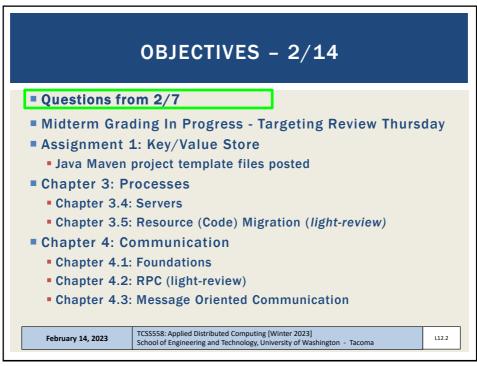
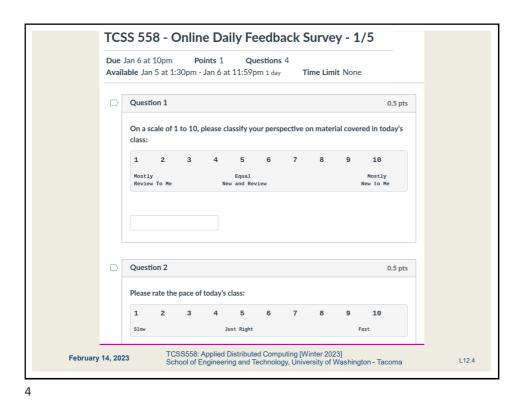
TCSS 558: Applied Distributed Computing [Winter 2023] School of Engineering and Technology, UW-Tacoma

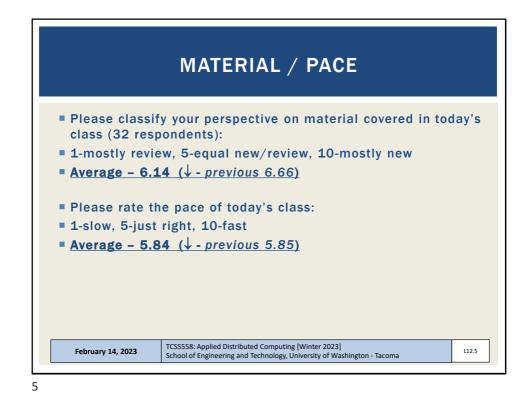


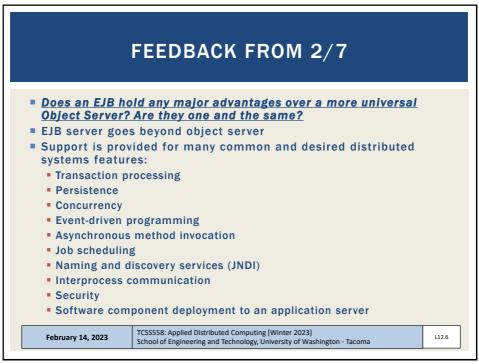




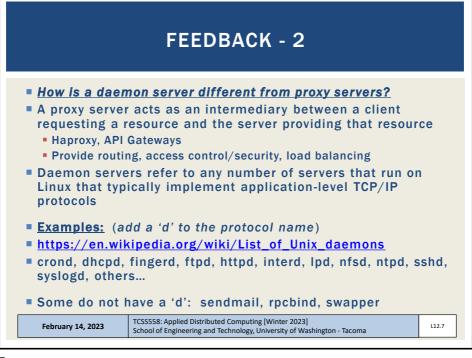
ONLINE DAILY FEEDBACK SURVEY				
	ailable for com /s: due by ~ We			
	TCSS 558 A >	Assignments		
	Winter 2021 Home	Search for Assignment		
	Announcements Assignments	 Upcoming Assignments 		
	Zoom Chat	X TCSS 558 - Online Daily Feedback Survey - 1/5 Not available until Jan 5 at 1:30pm Due Jan 6 at 1:0pm		
	TCSS558: Applied Distributed C School of Engineering and Tech	Computing [Winter 2023] nology, University of Washington - Tacoma		



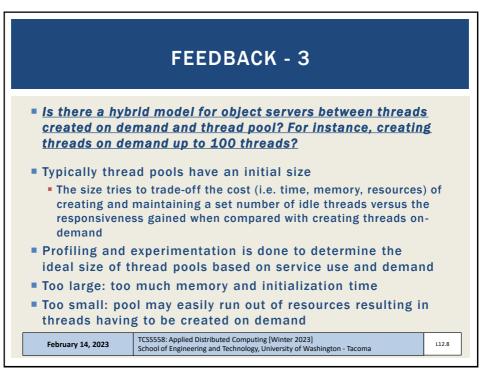






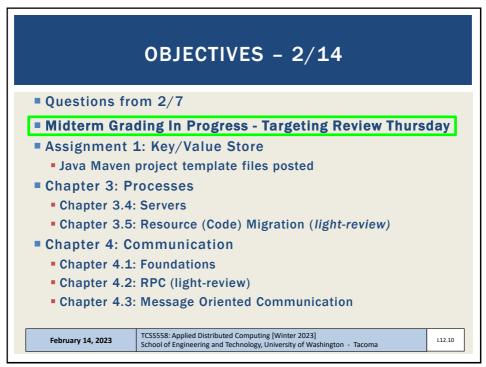


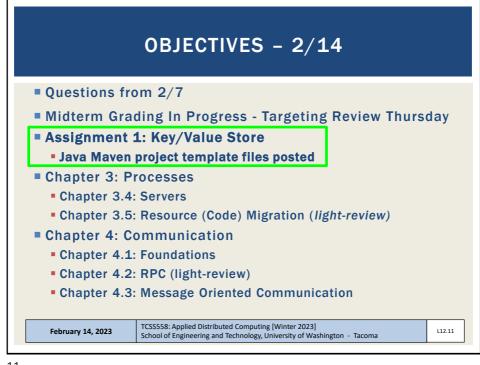


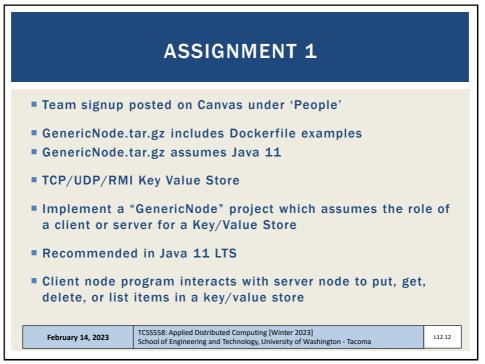




FEEDBACK - 4			
	on, what does "Daemon routes local client configured endpoint servers" mean? What does it refer to?		
We resume Ch	apter 3.4 from here		
E-1	TCSS558: Applied Distributed Computing [Winter 2023]		
February 14, 2023	School of Engineering and Technology, University of Washington - Tacoma		

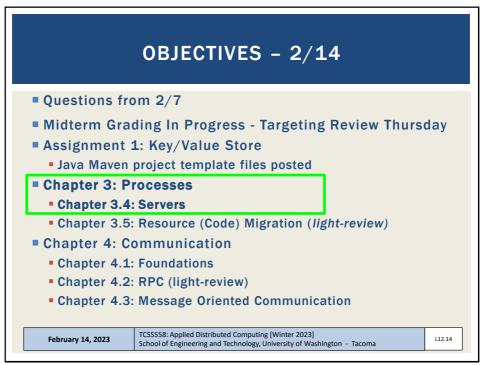




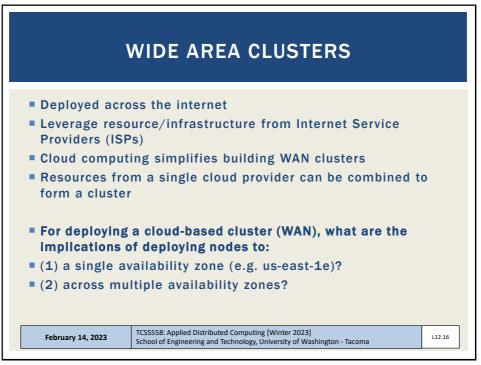


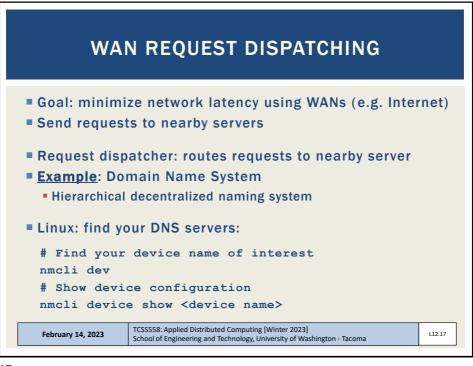


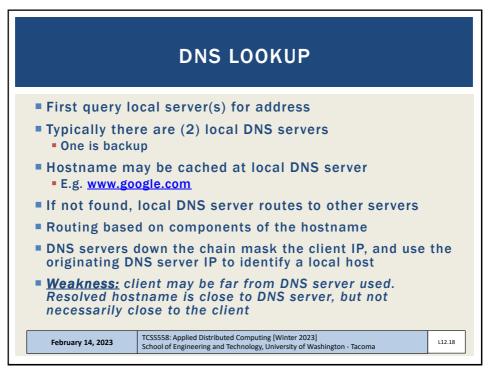
USING JAVA 11 IN NETBEANS			
In Netbeans IDE, under Tools menu, 'Java Platforms', be sure to install and select JDK 11			
Java Platform Manager 🛛 😵			
Use the Javadoc tab to register the API documentation for your JDK in the IDE. Click Add Platform to register other Java platform versions. Platforms:			
Java SE Platform Name: JDK 11 (Default) JDK 11 (Default) Platform Folder: /usr/lib/jvm/java-11-openjdk-amd64			
 On left-hand Project menu, <u>right-click</u> on 'GenericNode' project Select Properties 			
Under Build Compile, be sure Java Platform is JDK 11			
 Under Sources, be sure Source/Binary Format is 11 			
February 14, 2023 TCSS558: Applied Distributed Computing [Winter 2023] School of Engineering and Technology, University of Washington - Tacoma L12.13			



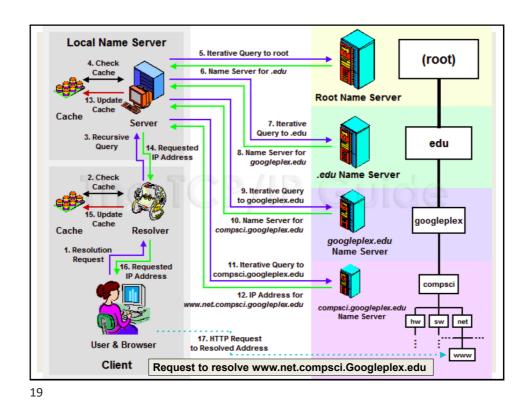


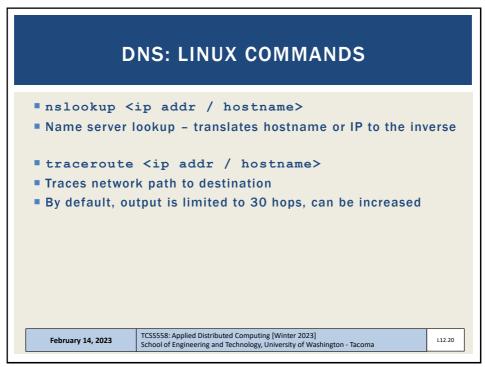




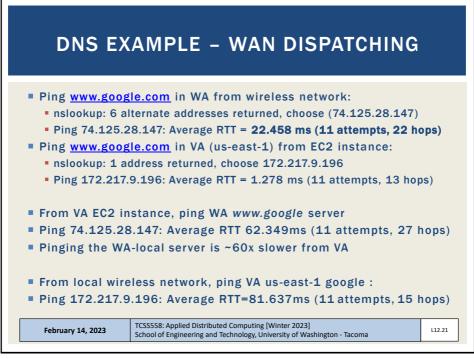


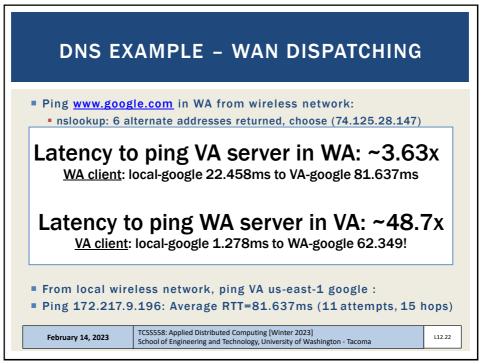


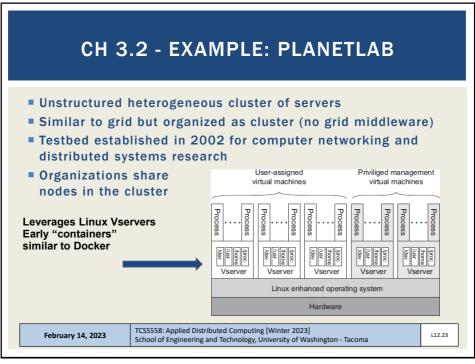


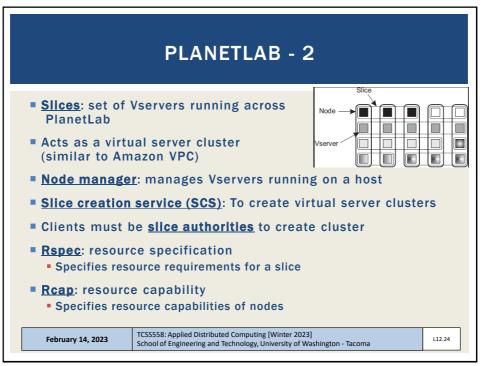


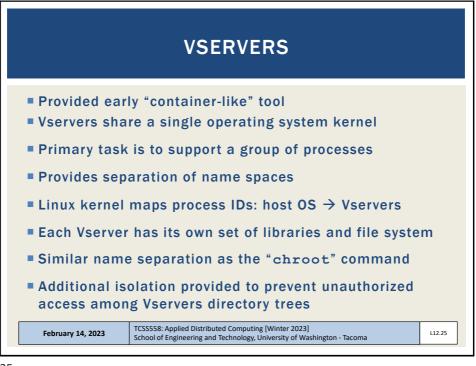


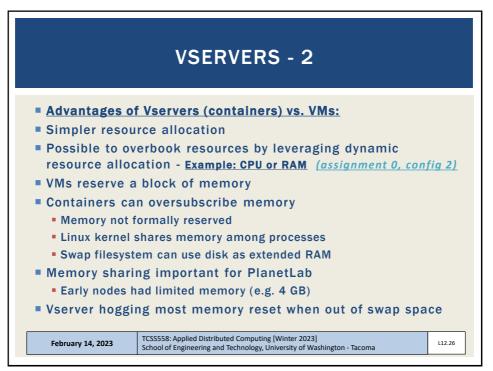


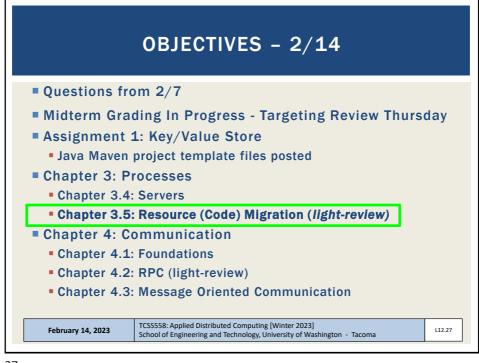


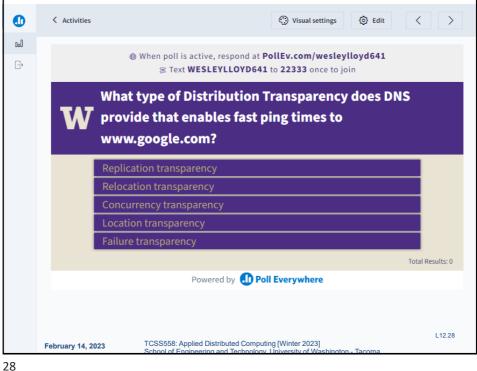




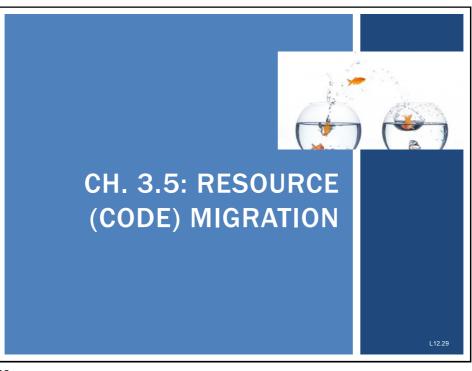


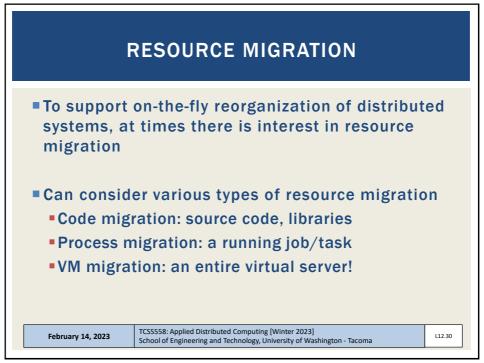


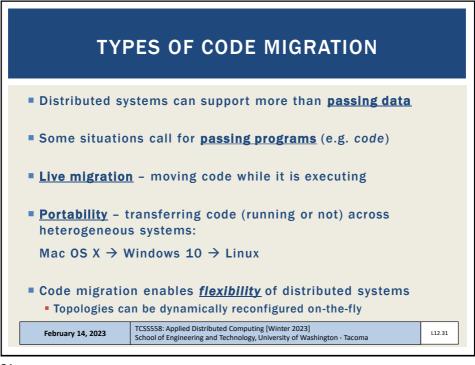


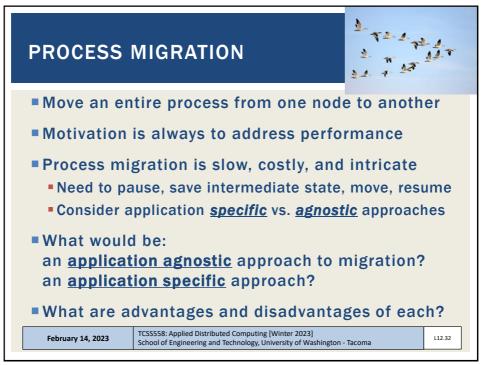


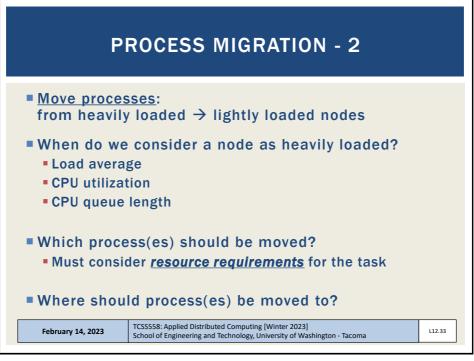
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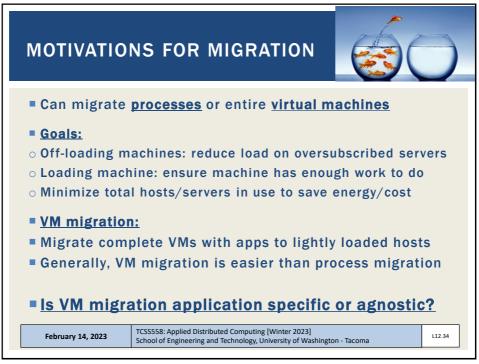


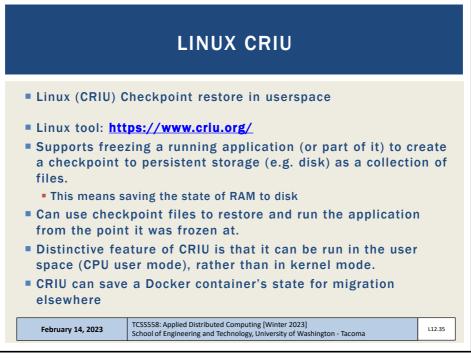


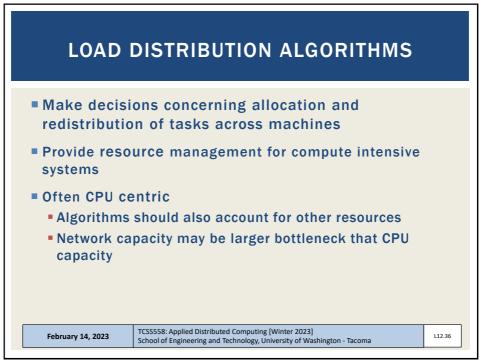


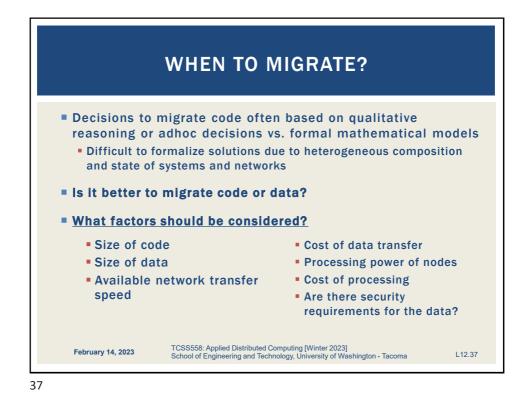


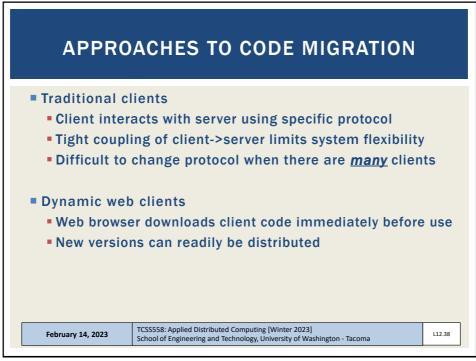




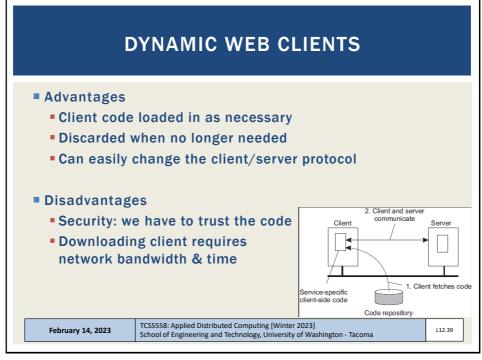


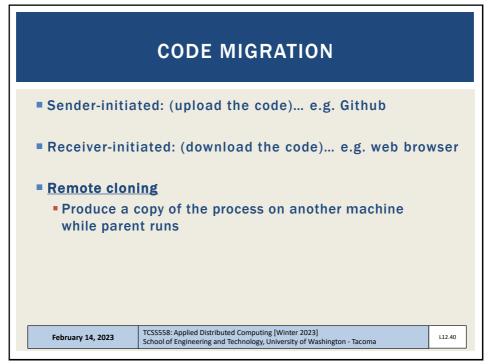


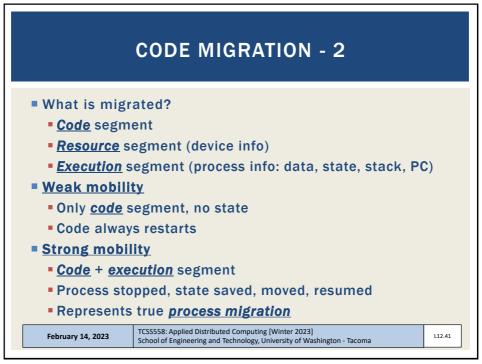


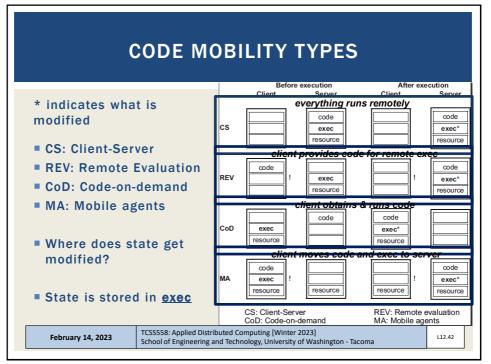


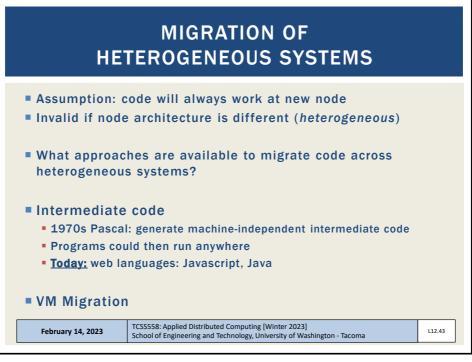


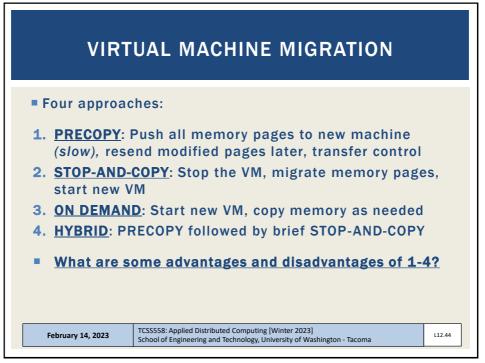


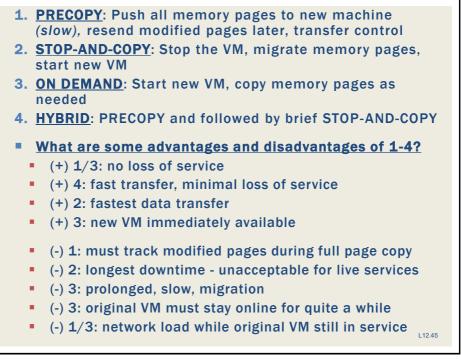








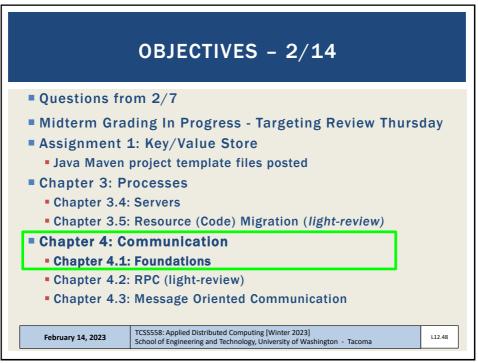




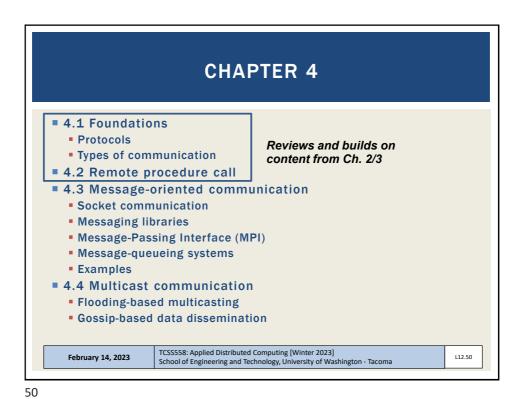


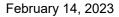
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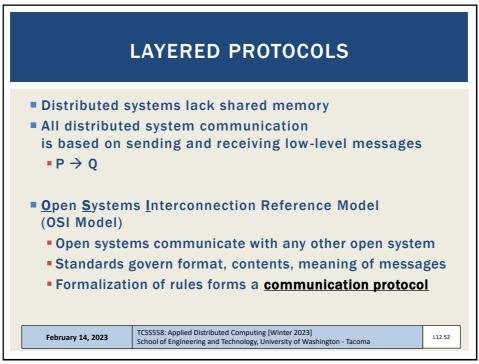


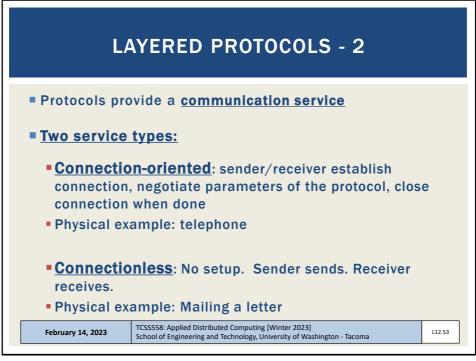


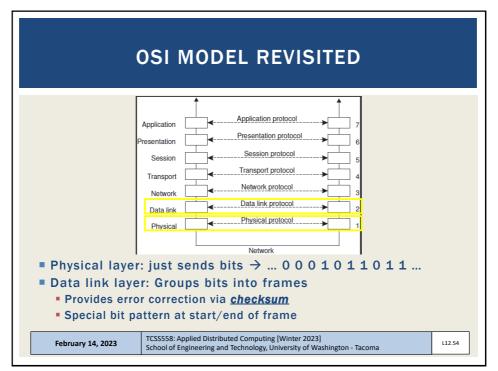




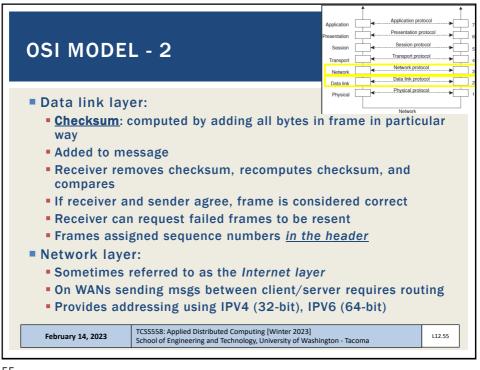


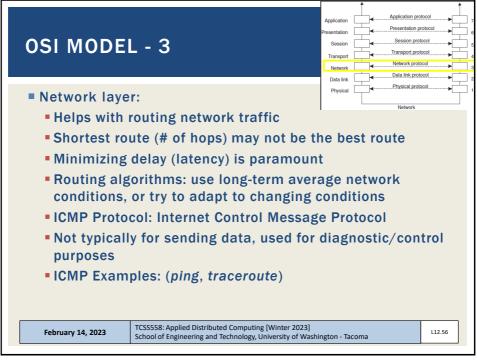


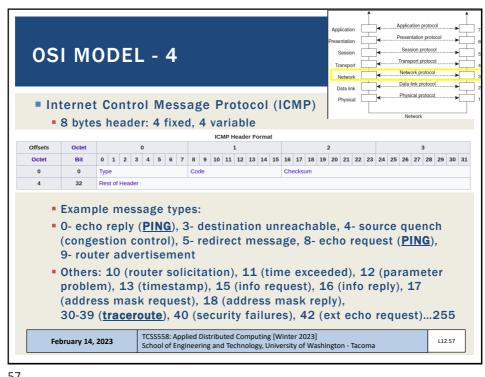


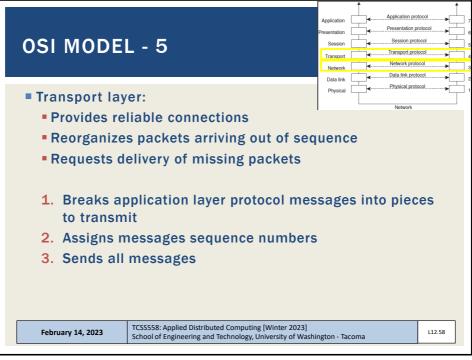


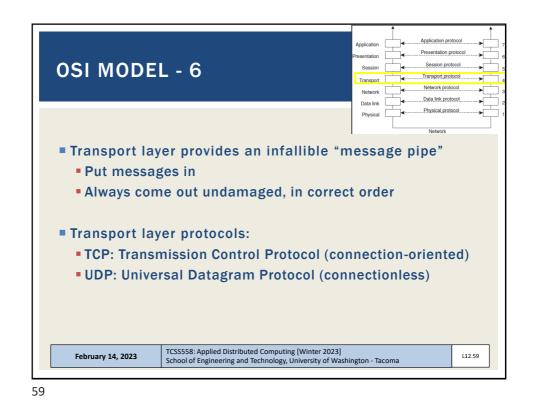


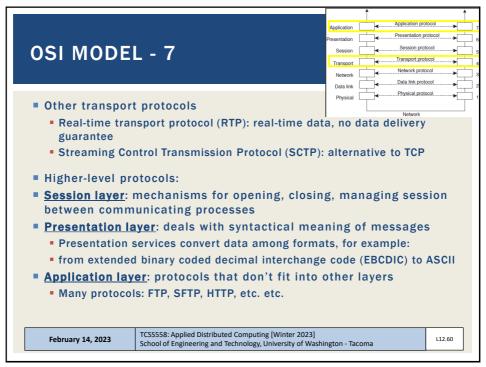




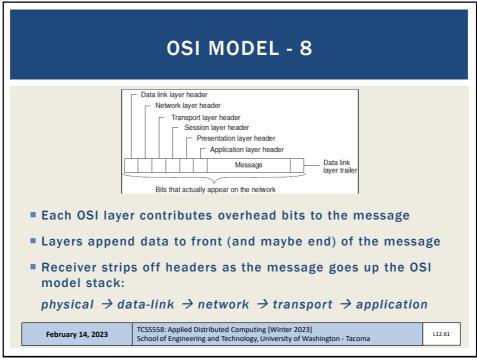


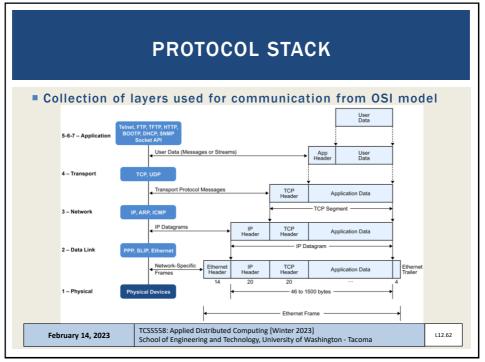


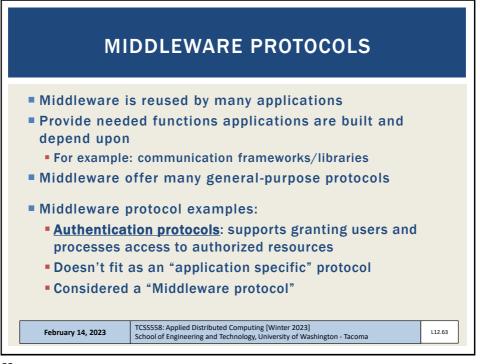


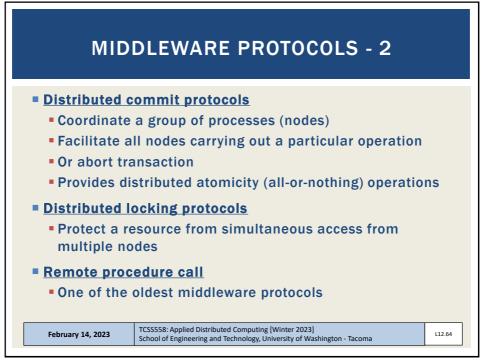


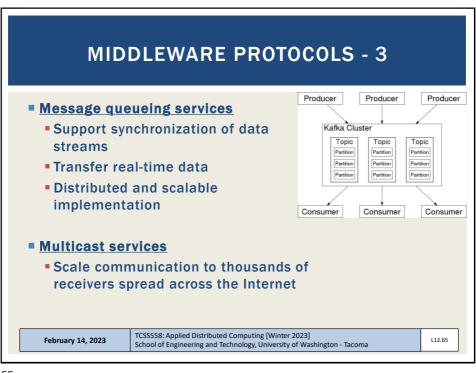


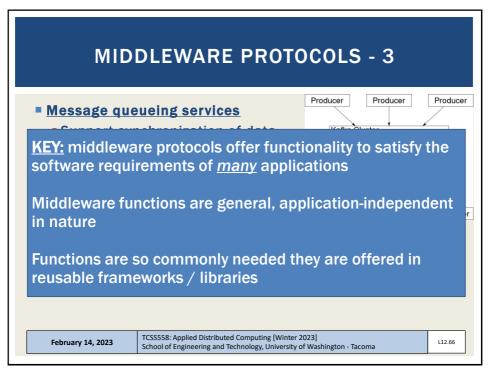


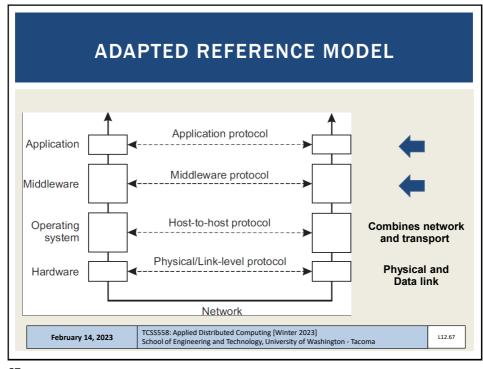


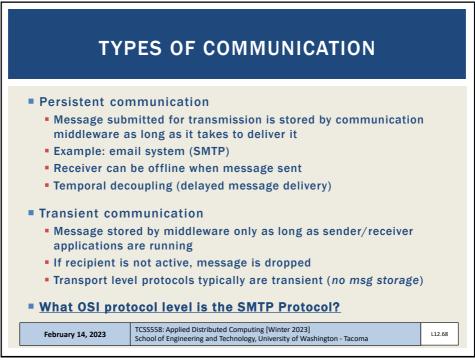




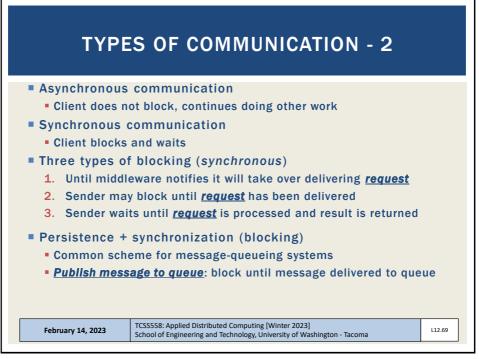


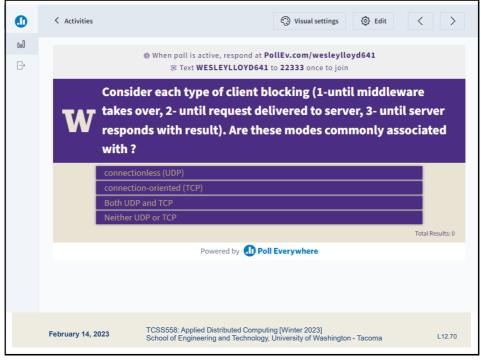


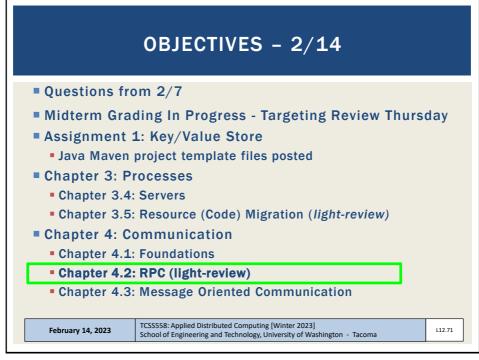


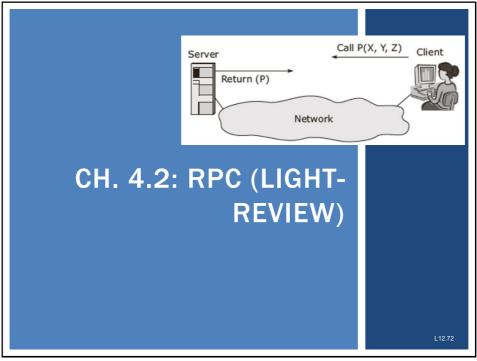


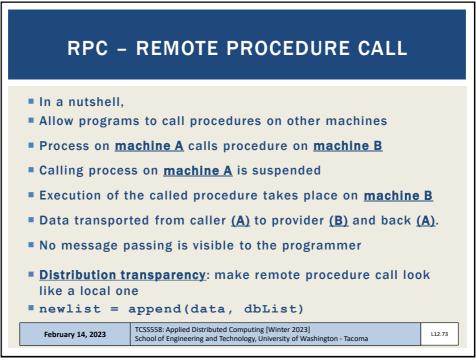


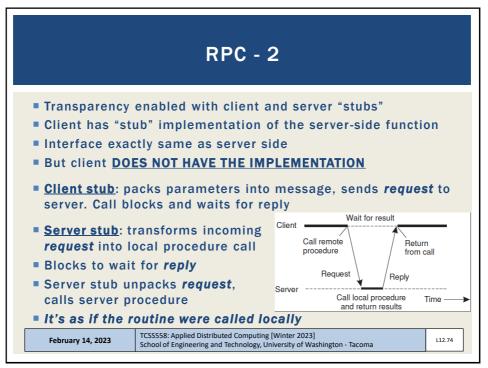




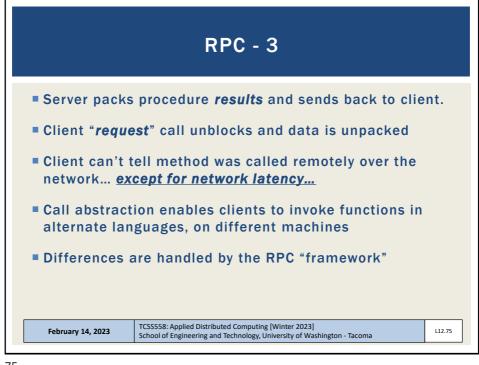


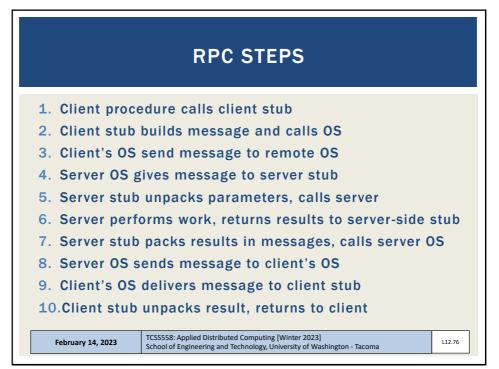


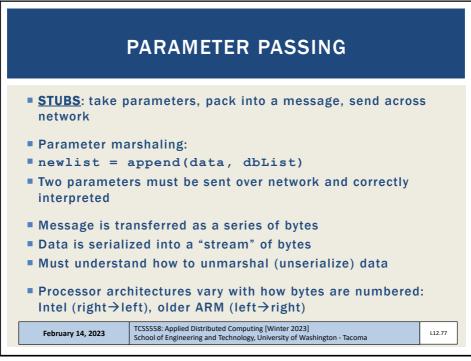


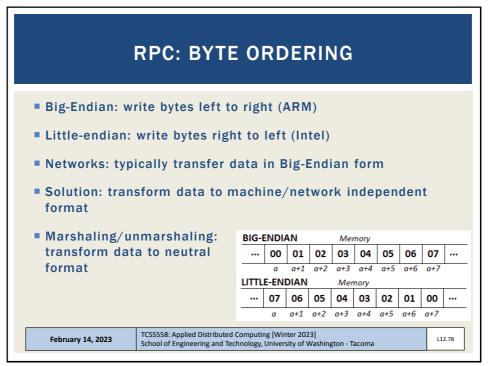


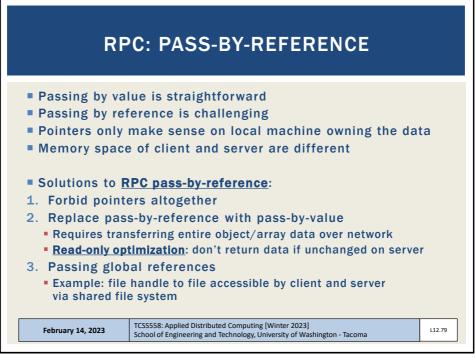


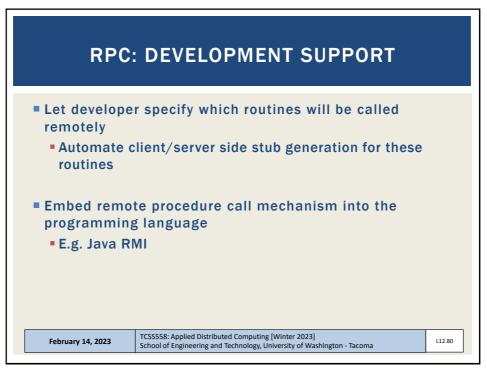


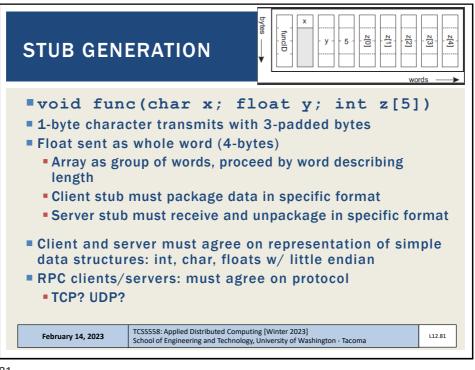


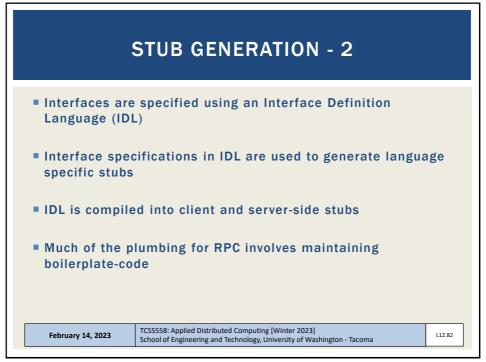


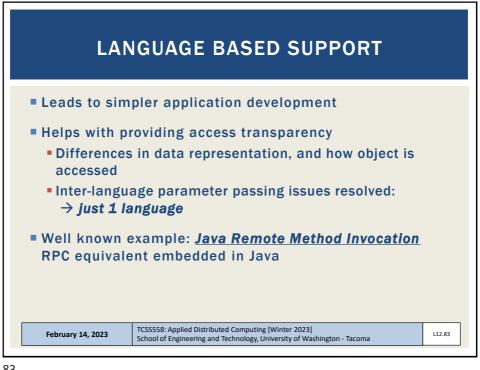


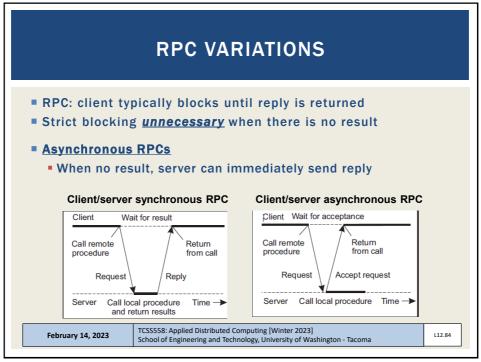


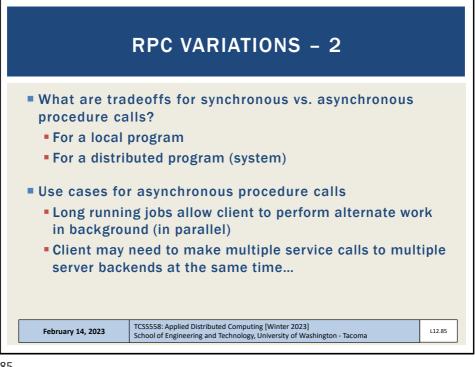


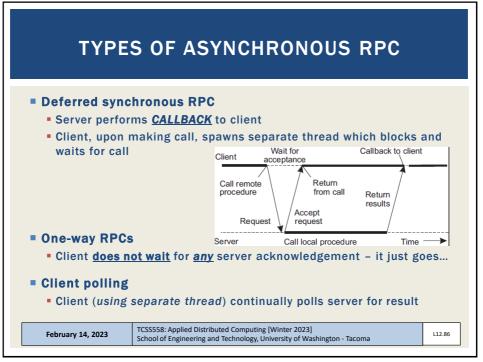




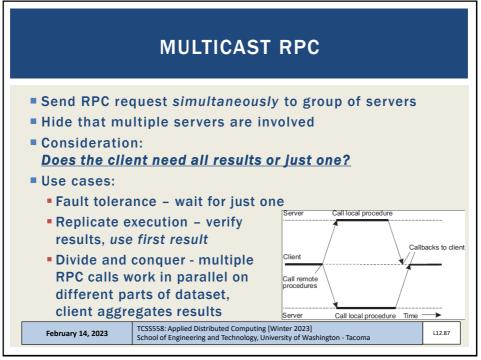


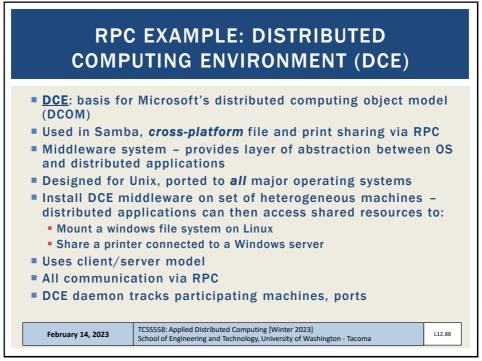


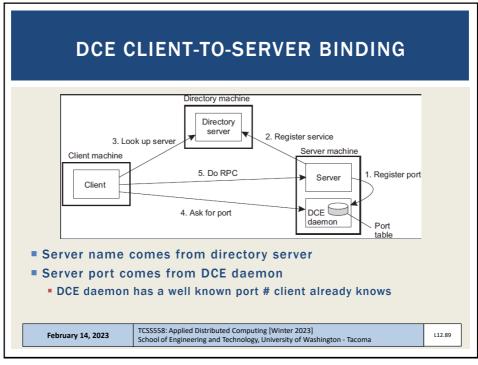


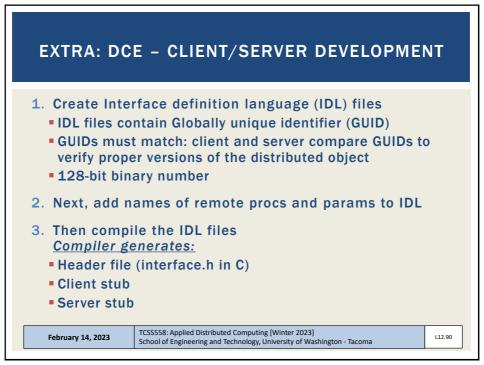




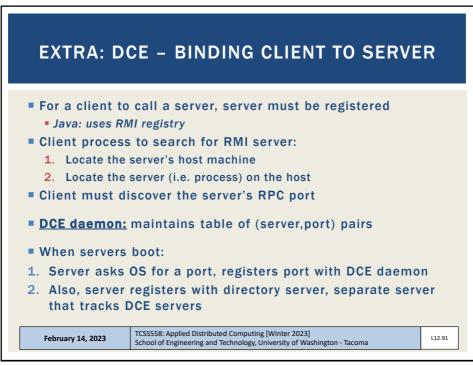


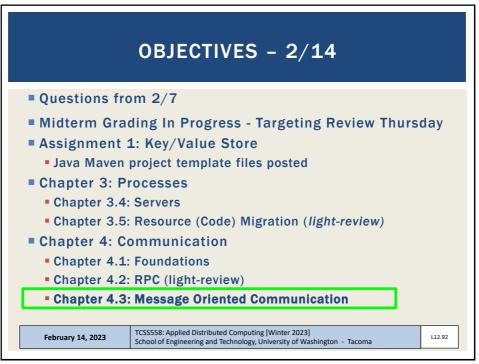




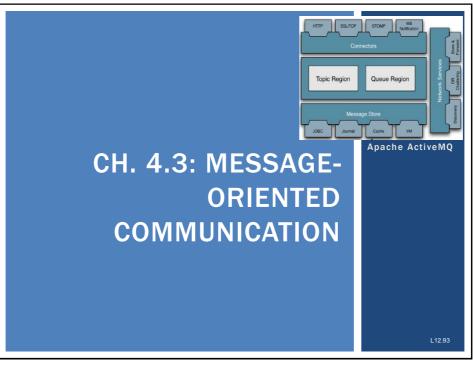


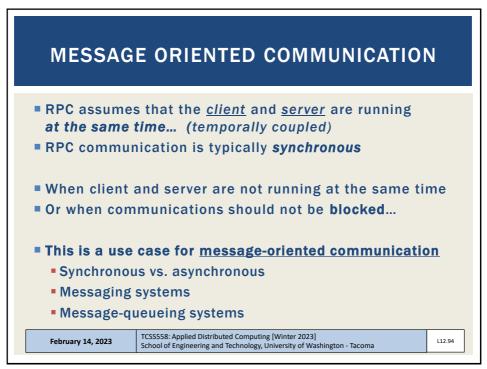






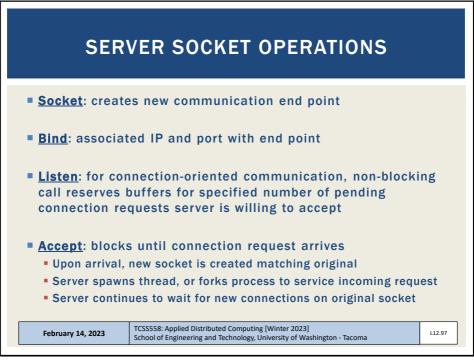
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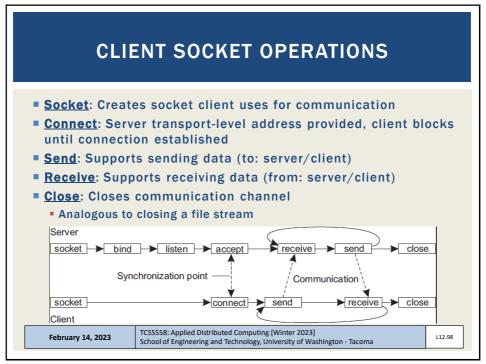




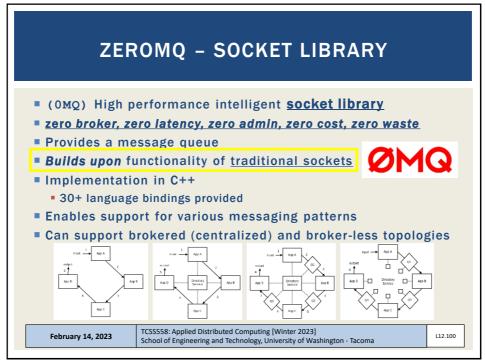
SOCKETS		
Applications	tion end point s can read / write data to to file streams for I/O, but <u>network streams</u>	
Operation	Description	
socket	Create a new communication end point	
bind	Attach local address to socket (IP / port)	
listen	Tell OS what max # of pending connection requests should be	
accept	Block caller until a connection request arrives	
connect	Actively attempt to establish a connection	
send	Send some data over the connection	
receive	Receive some data over the connection	
close	Release the connection	
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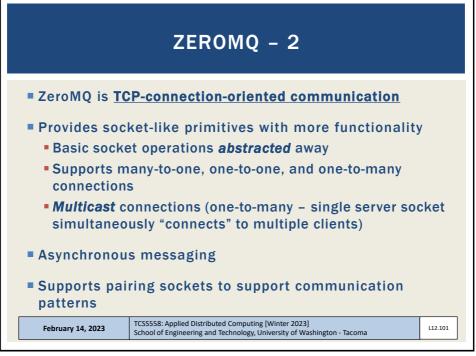
SOCKETS - 2		
Methods re	cute 1 st - 4 operations (socket, bind, listen, accept) fer to C API functions cross different libraries will vary (<i>e.g. Java</i>)	
Operation	Description	
socket	Create a new communication end point	
bind	Attach local address to socket (IP / port)	
	Tell OS what max # of pending connection requests should be	
listen	······································	
listen accept	Block caller until a connection request arrives	
accept	Block caller until a connection request arrives	
accept	Block caller until a connection request arrives Actively attempt to establish a connection	

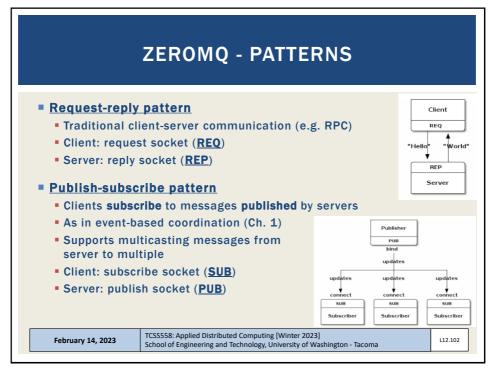


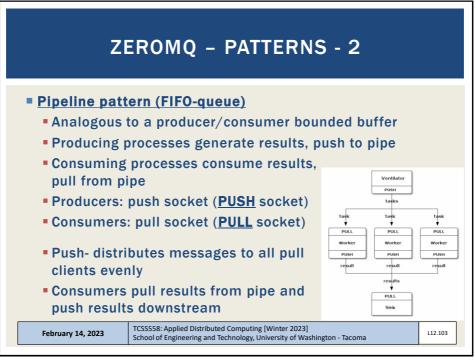


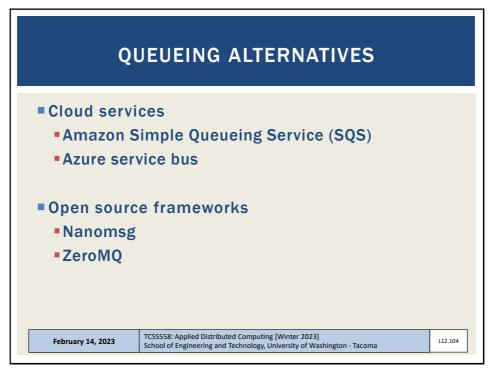


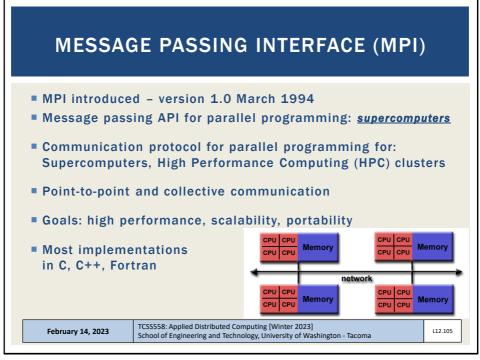


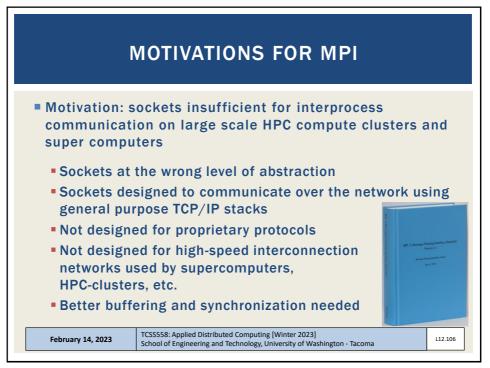


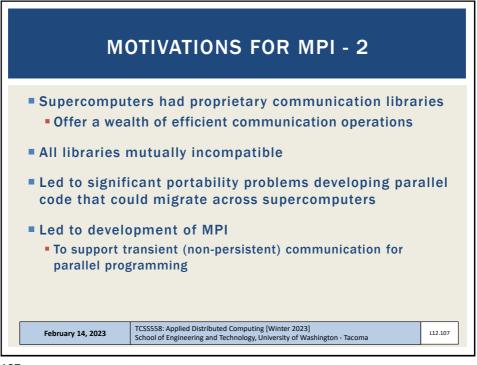


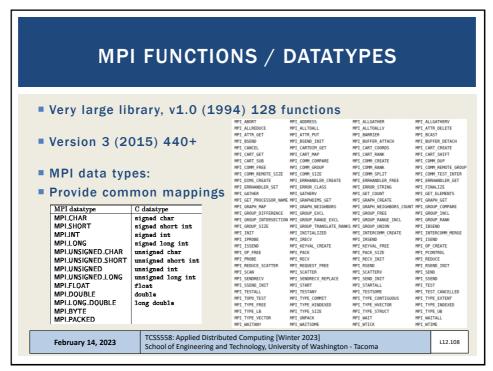




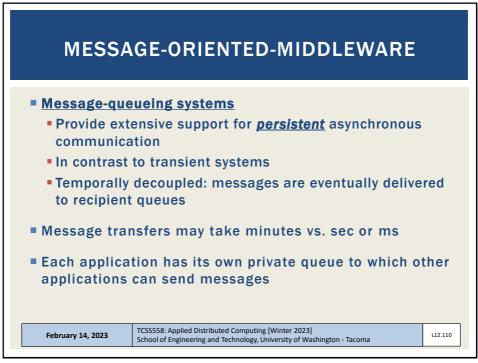


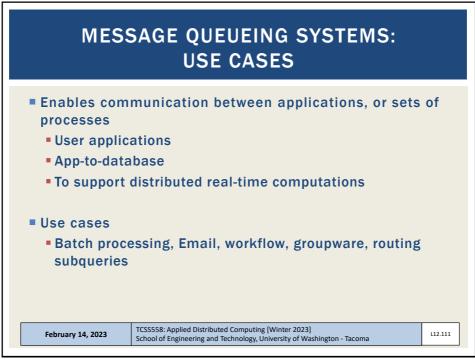


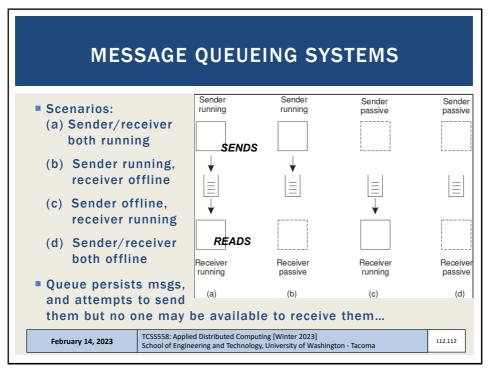




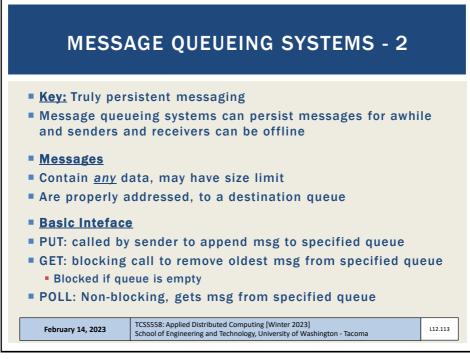
(COMMON MPI FUNCTIONS		
MPI - no re	MPI - no recovery for process crashes, network partitions		
Communica	Communication among grouped processes: (groupID, processID)		
IDs used to	IDs used to route messages in place of IP addresses		
Operation	Description		
MPI_bsend	Append outgoing message to a local send buffer		
MPI_send	Send message, wait until copied to local/remote buffer		
MPI_ssend	Send message, wat until transmission starts		
MPI_sendrecv	Send message, wait for reply		
MPI_isend	Pass reference to outgoing message and continue		
MPI_issend	Pass reference to outgoing messages, wait until receipt start		
MPI_recv	Receive a message, block if there is none		
MPI_irecv			
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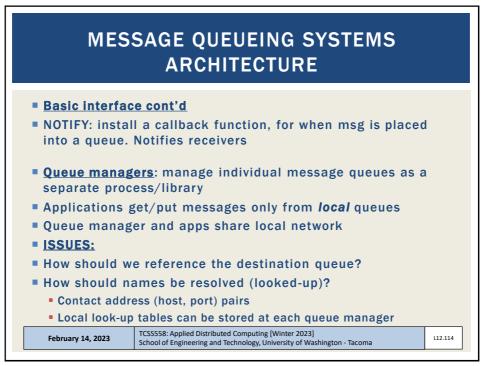


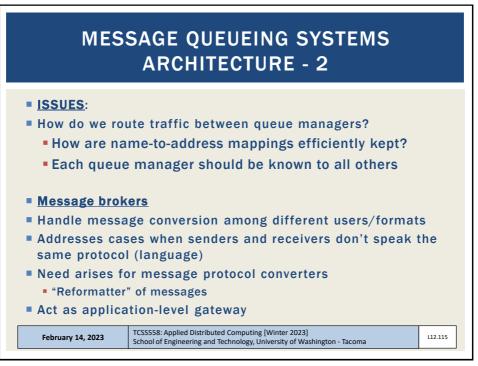


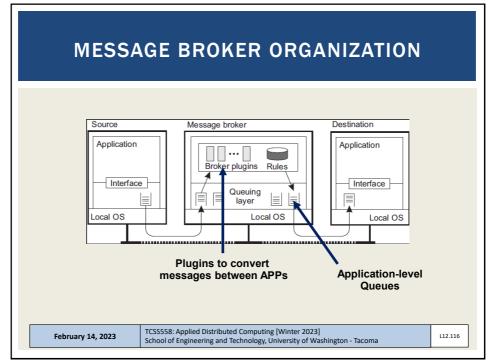




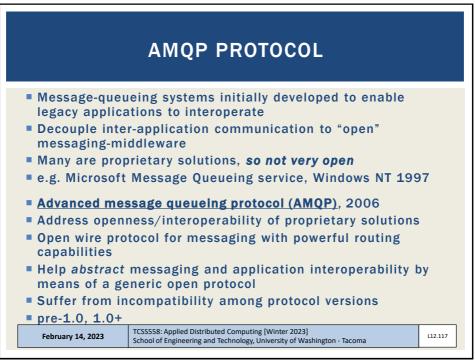


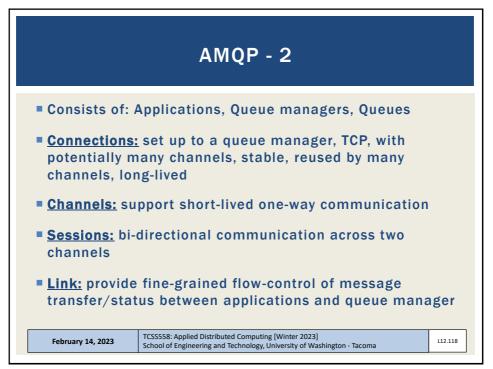


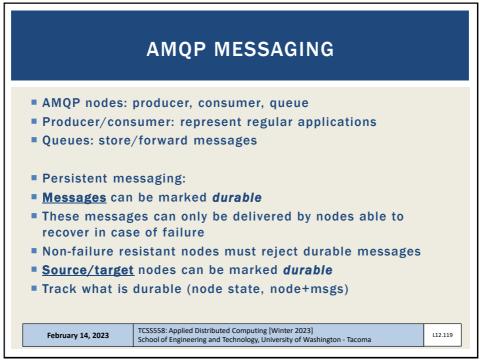


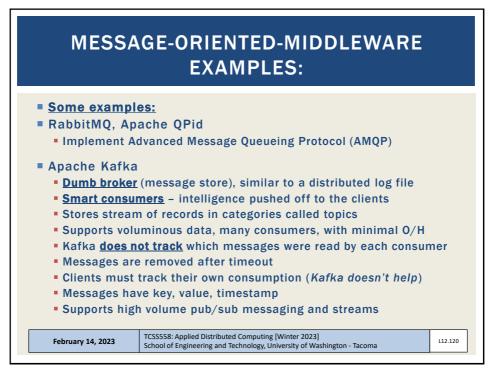












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