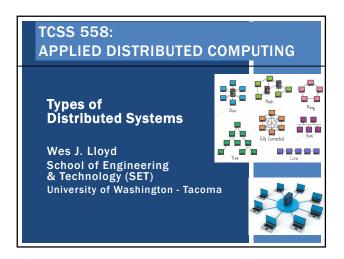
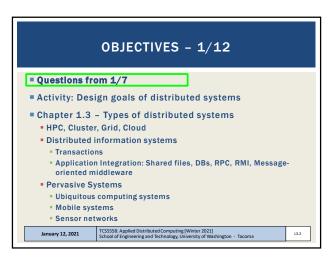
TCSS 558: Applied Distributed Computing [Winter 2021] School of Engineering and Technology, UW-Tacoma



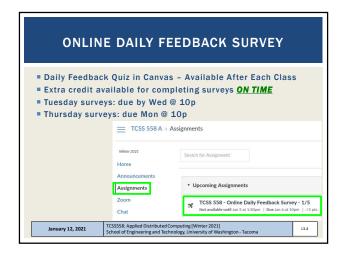


TCSS 558 OFFICE HOURS - WINTER 2021

Fridays 11:30a - 12:30p via Zoom
ZOOM link shared weekly via Canvas announcements

Tuesdays 3:30p after class
Thursdays 3:30p after class
Same ZOOM link as class

By email appointment: wlloyd@uw.edu
Zoom link sent by email



TCSS 558 - Online Daily Feedback Survey - 1/5

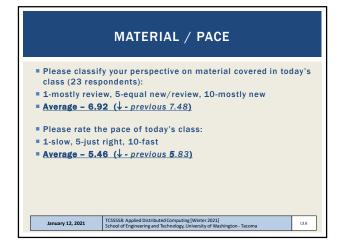
Due Jan 6 at 10pm Points 1 Questions 4
Available Jan 5 at 1:30pm - Jan 6 at 11:59pm 1 asy Time Limit None

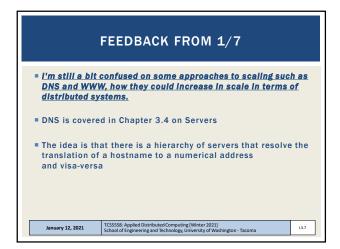
Question 1 0.5 pts

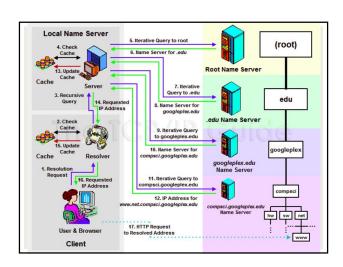
On a scale of 1 to 10, please classify your perspective on material covered in today's class:

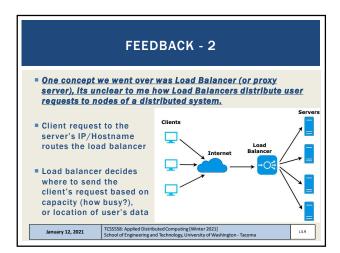
1 2 3 4 5 6 7 8 9 10

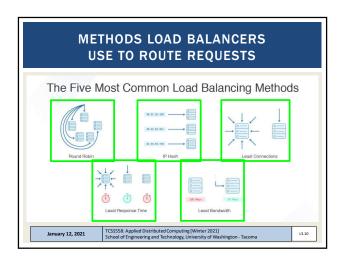
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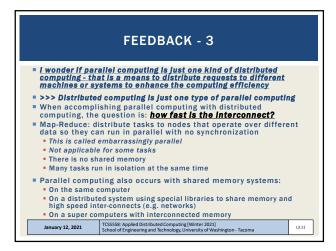


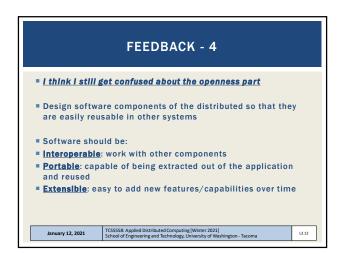


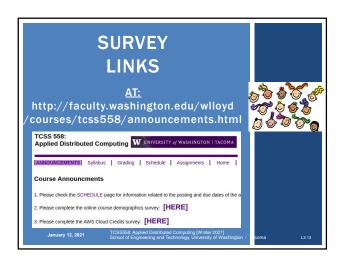


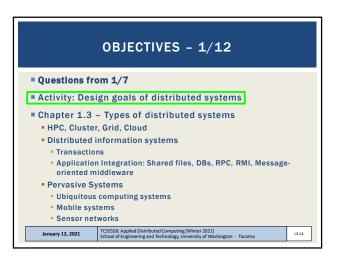


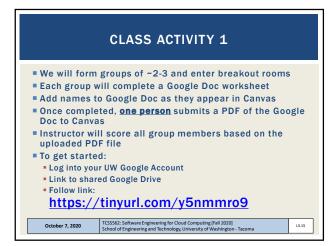


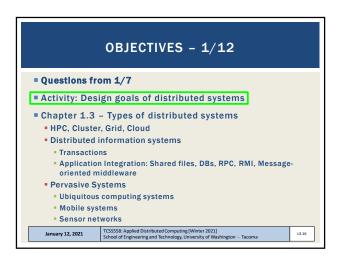




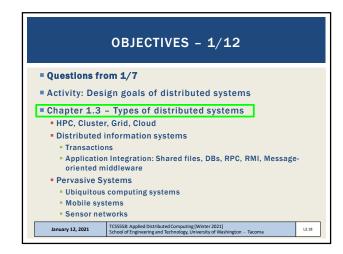


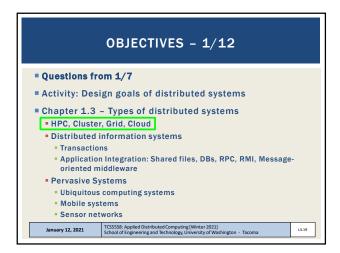


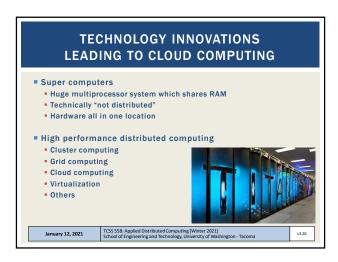


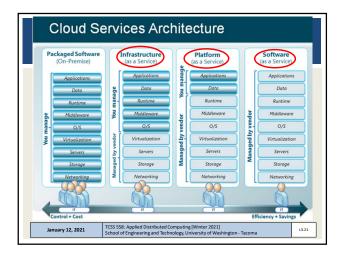


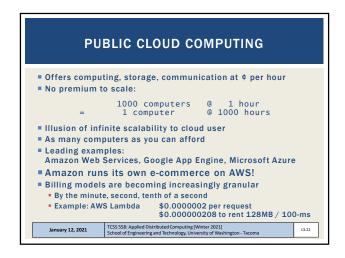


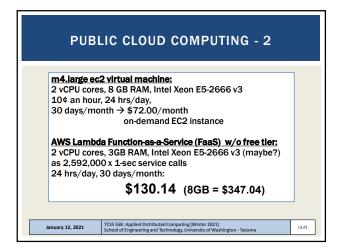


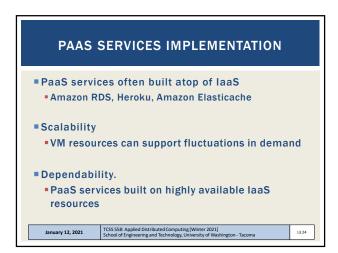


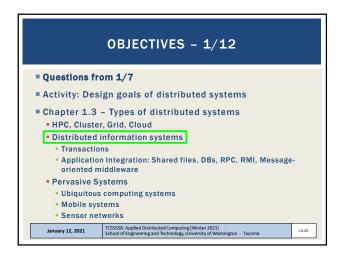


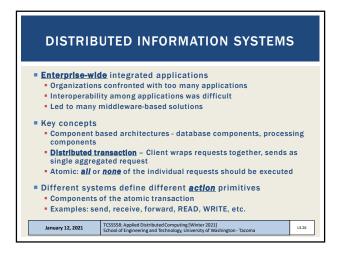


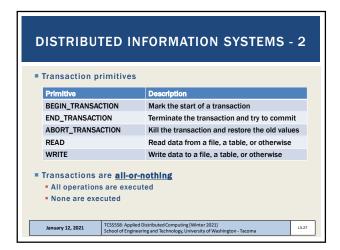


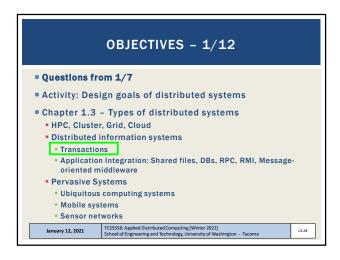


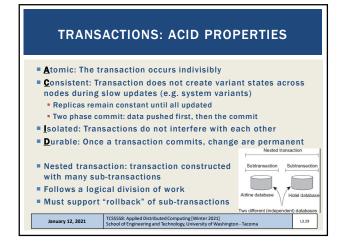


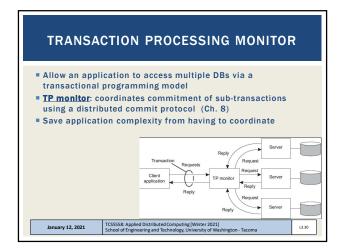


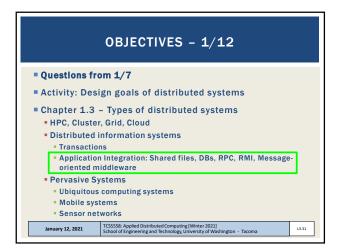


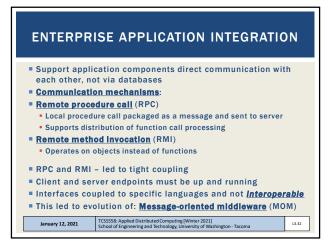




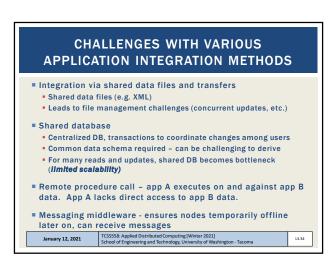






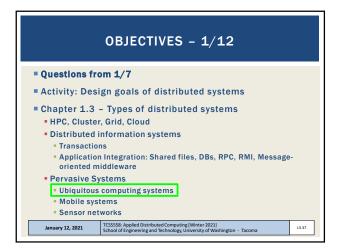


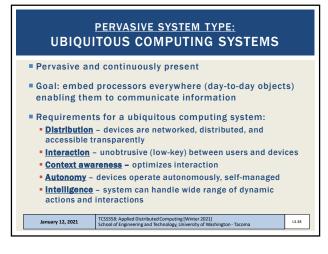
Publish and subscribe systems: Rabbit MQ, Apache Kafka, AWS SQS/SNS Reduces tight coupling of RPC/RMI Applications indicate interest for specific type(s) of messages by sending requests to logical contact points Communication middleware delivers messages to subscribing applications | Communication middleware delivers messages to subscribing applications | ICSSSS: Applied Distributed Computing [Winter 2021] | School of Engineering and Technology, University of Washington - Tacoma | ILSSSSS: Applied Distributed Computing [Winter 2021] | ILSSSSS: Applied Distributed Computing [Winter 2021] | ILSSSSSS: Applied Distributed Computing [Winter 2021] | ILSSSSSSS | ILSSSSSS | ILSSSSSS | ILSSSSSS | ILSSSSSS | ILSSSSSS | ILSSSSSS | ILSSSSS | ILSSSS |



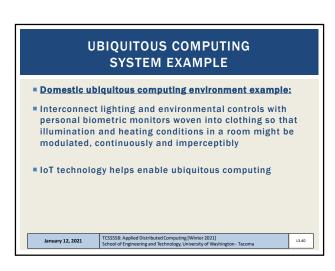
OBJECTIVES - 1/12 Questions from 1/7 Activity: Design goals of distributed systems Chapter 1.3 - Types of distributed systems • HPC, Cluster, Grid, Cloud Distributed information systems Transactions Application Integration: Shared files, DBs, RPC, RMI, Messageoriented middleware Pervasive Systems Ubiquitous computing systems Mobile systems Sensor networks TCSS558: Applied Distributed Computing [Winter 2021] School of Engineering and Technology, University of Washington - Tacoma January 12, 2021 L3.35

PERVASIVE SYSTEMS Existing everywhere, widely adopted... Combine current network technologies, wireless computing, voice recognition, internet capabilities and AI to create an environment where connectivity of devices is embedded, unobtrusive, and always available Many sensors infer various aspects of a user's behavior Myriad of actuators to collect information, provide feedback TYPES OF PERVASIVE SYSTEMS: Ubiquitous computing systems Mobile systems Sensor networks Ianuary 12, 2021 TCSSSSS. Applied Distributed Computing [Winter 2021] School of Engineering and Technology, University of Washington-Tacoma





UBIQUITOUS COMPUTING SYSTEM EXAMPLES Apple Watch Amazon Echo Speaker Amazon EchoDot (single speaker design) Fitbit Electronic Toll Systems Smart Traffic Lights Self Driving Cars Home Automation



OBJECTIVES - 1/12 Questions from 1/7 Activity: Design goals of distributed systems Chapter 1.3 - Types of distributed systems HPC, Cluster, Grid, Cloud Distributed information systems Transactions Application Integration: Shared files, DBs, RPC, RMI, Messageoriented middleware Pervasive Systems Ubiquitous computing systems Mobile systems Sensor networks TCSS558: Applied Distributed Computing [Winter 2021] School of Engineering and Technology, University of Washington - Tacoma January 12, 2021 L3.41

