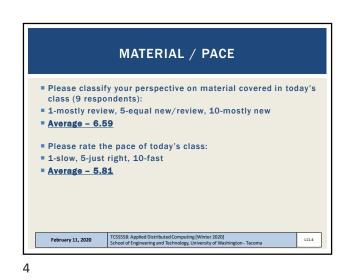
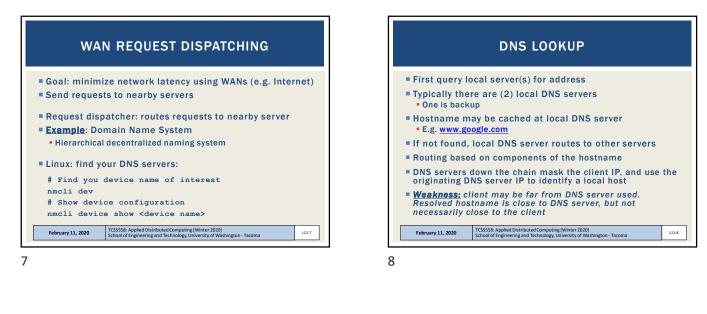
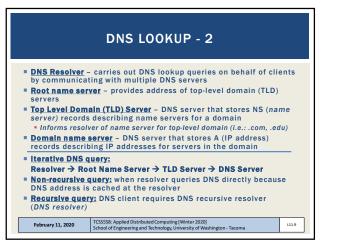


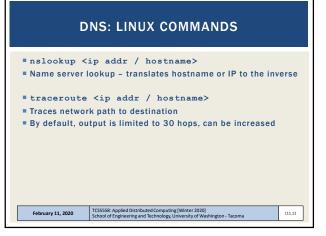
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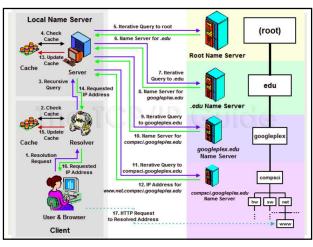
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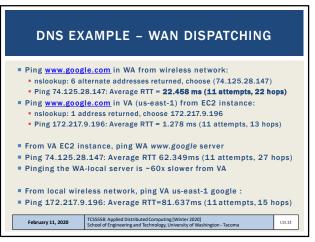


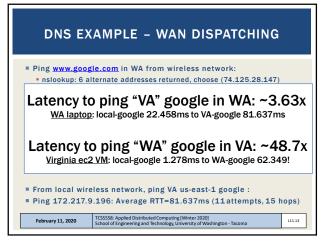




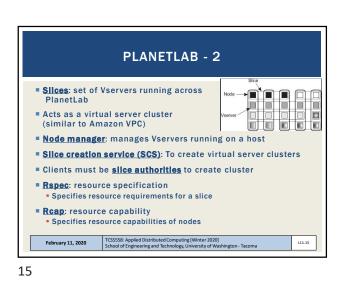
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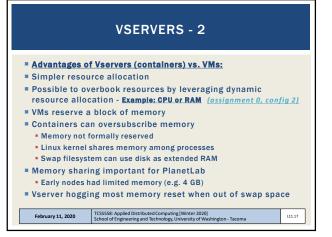




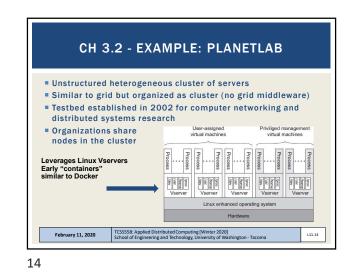


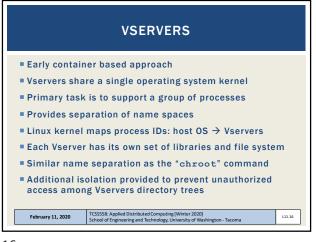




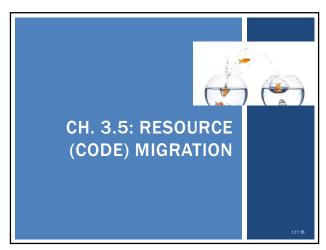


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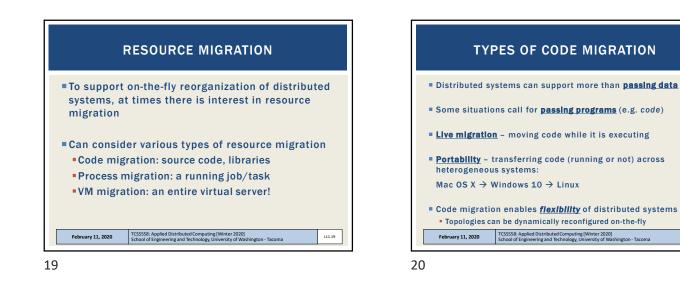


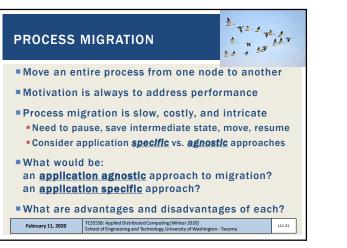




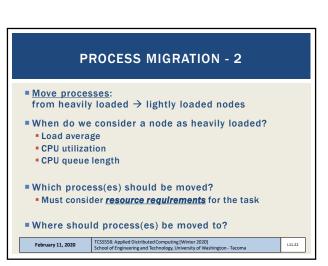


L11.20

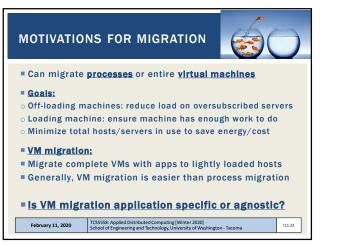


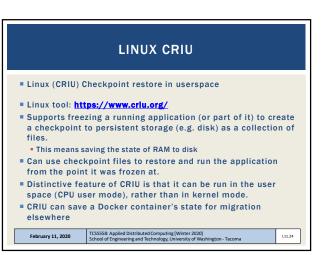


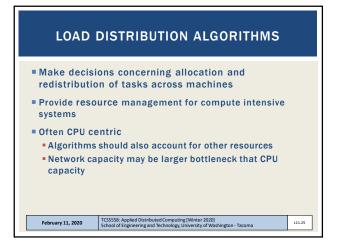
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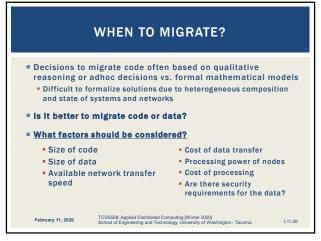




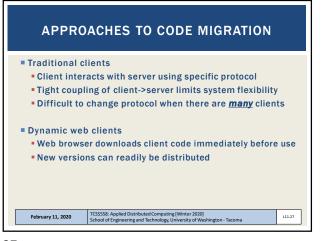




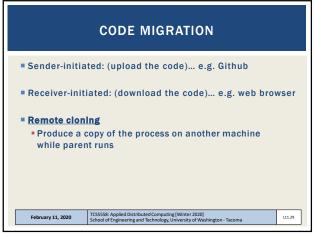




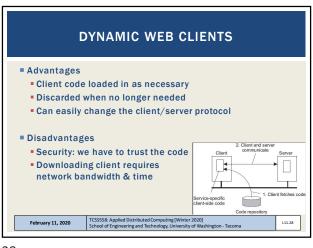
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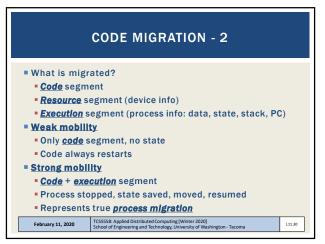


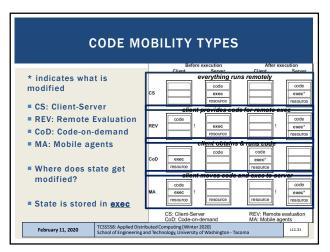
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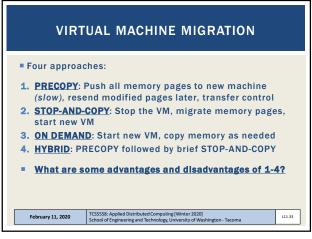


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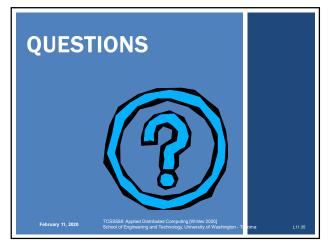




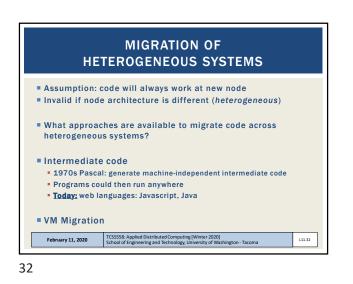




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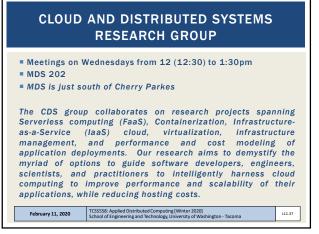
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- 1. PRECOPY: Push all memory pages to new machine (slow), resend modified pages later, transfer control 2. <u>STOP-AND-COPY</u>: Stop the VM, migrate memory pages, start new VM 3. ON DEMAND: Start new VM, copy memory pages as needed 4. HYBRID: PRECOPY and followed by brief STOP-AND-COPY What are some advantages and disadvantages of 1-4? (+) 1/3: no loss of service (+) 4: fast transfer, minimal loss of service (+) 2: fastest data transfer (+) 3: new VM immediately available (-) 1: must track modified pages during full page copy (-) 2: longest downtime - unacceptable for live services • • (-) 3: prolonged, slow, migration
 - (-) 3: original VM must stay online for quite a while
 - (-) 1/3: network load while original VM still in service

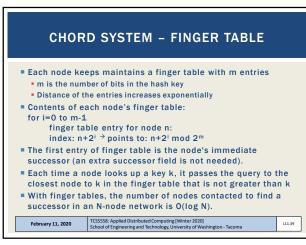




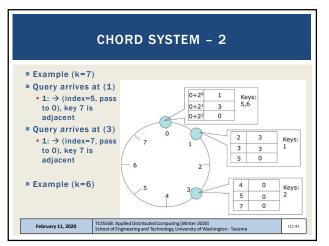








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