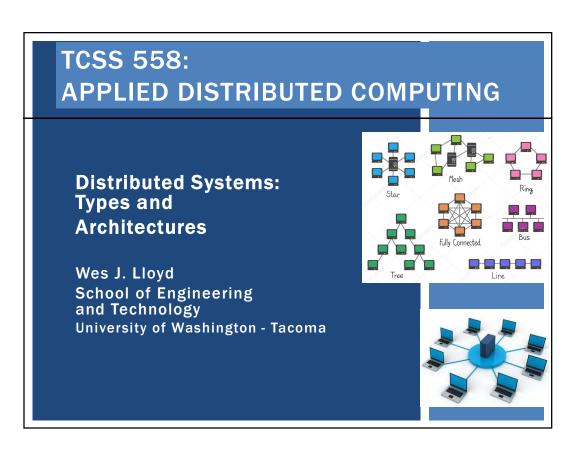
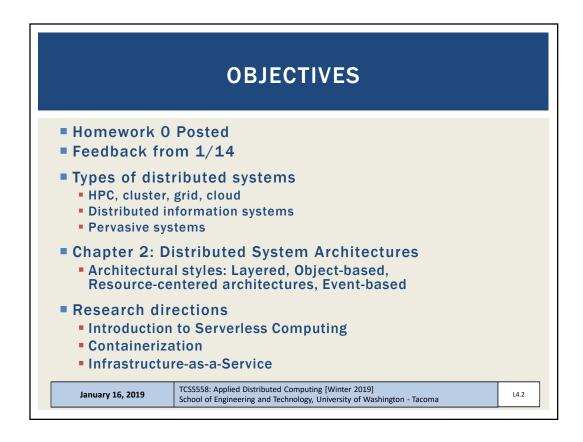
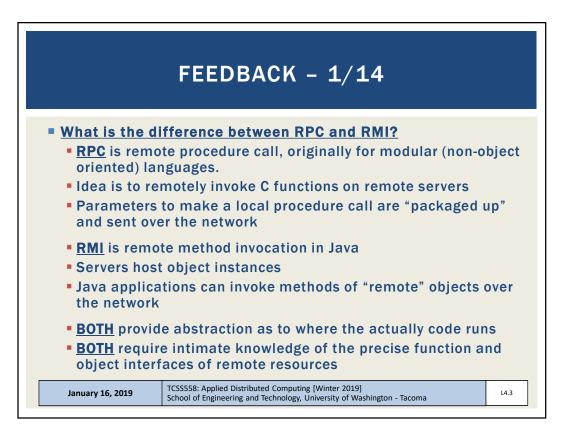
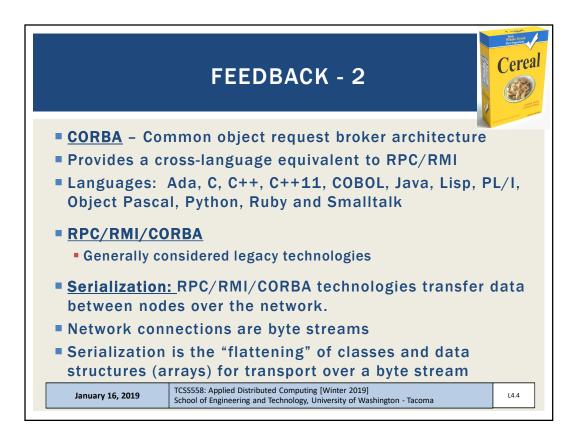
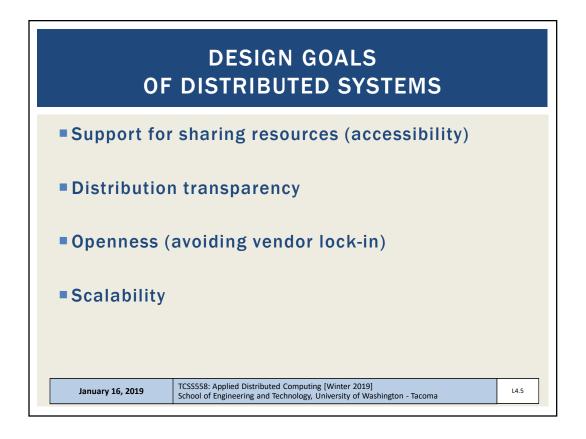
TCSS 558: Applied Distributed Computing [Winter 2019] School of Engineering and Technology, UW-Tacoma

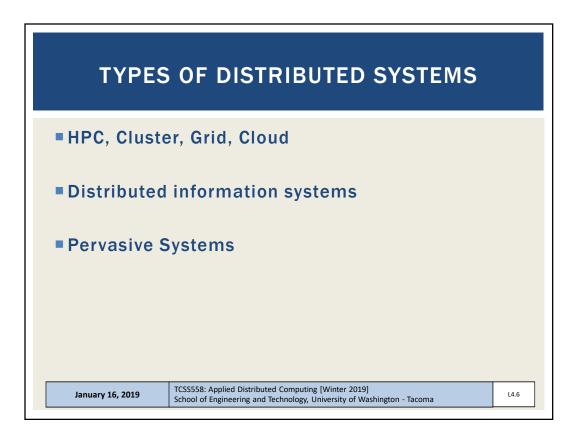




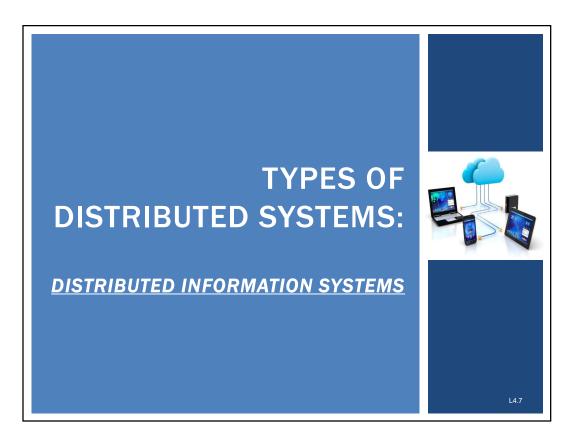


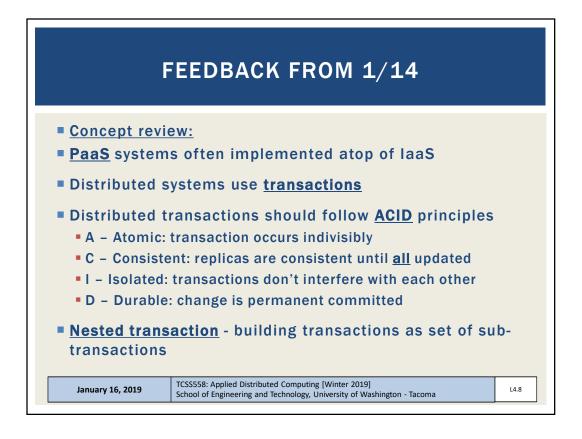


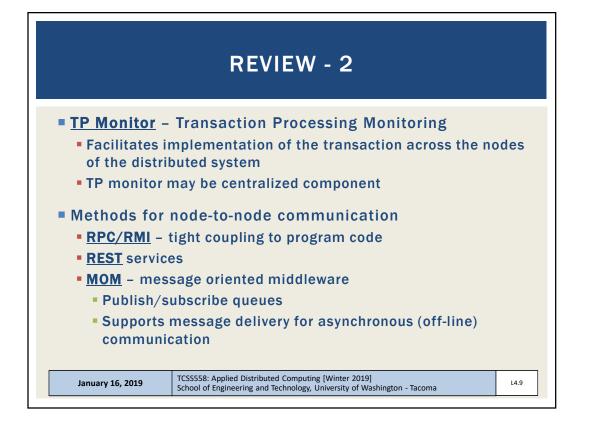


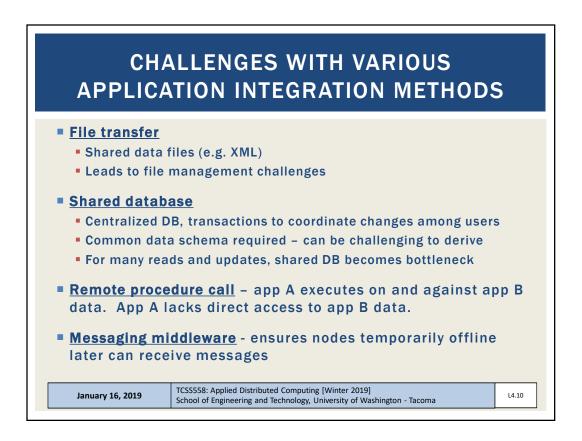


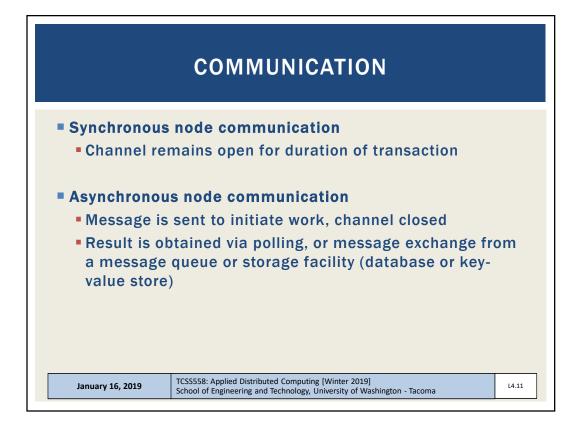
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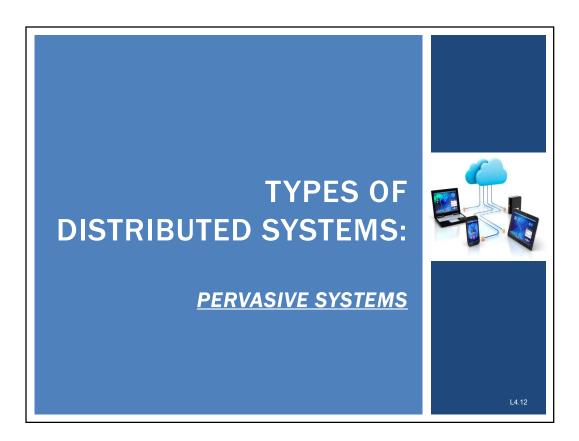


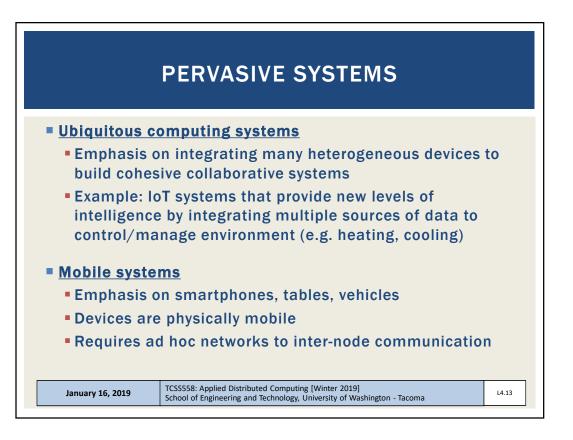


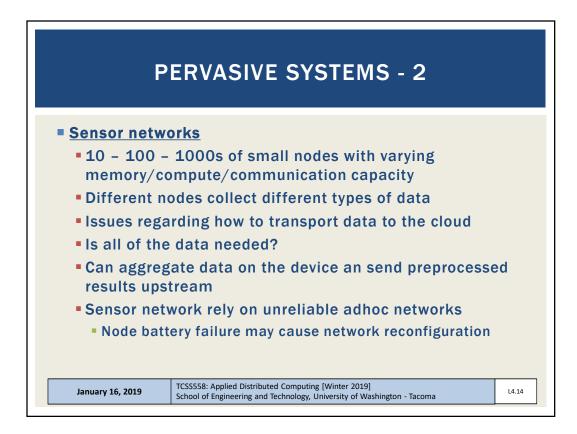


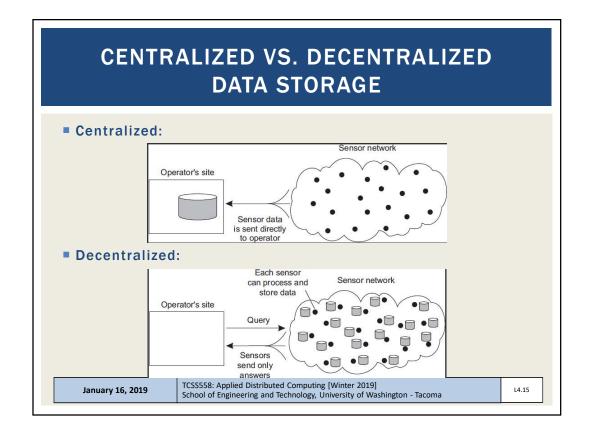


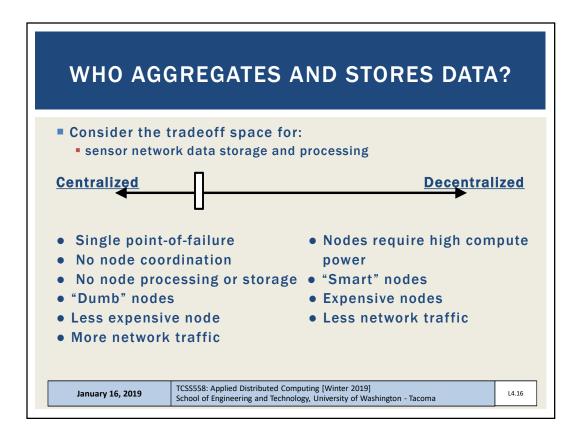


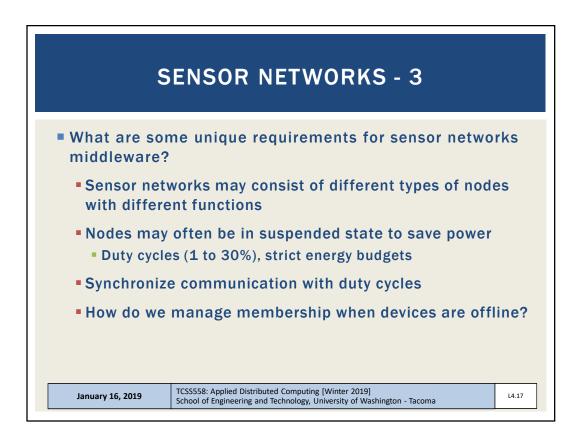


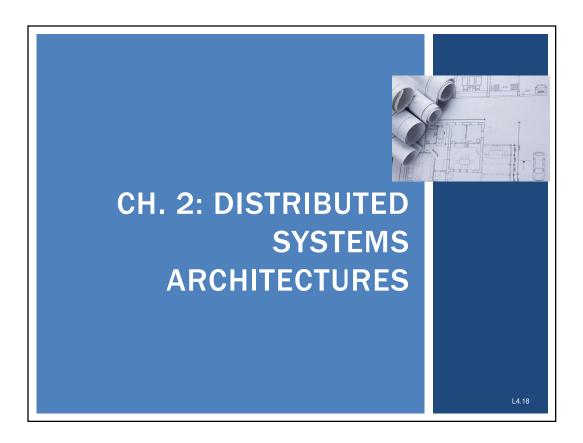


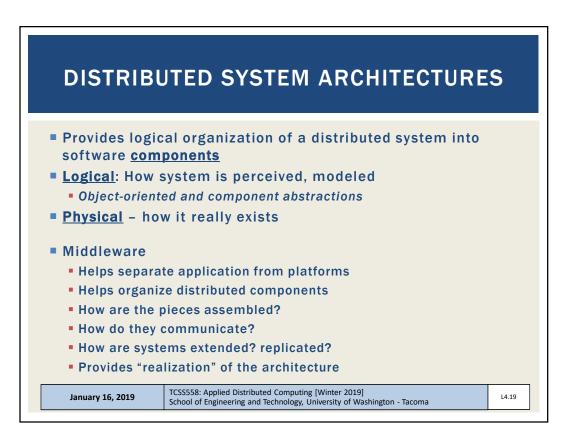


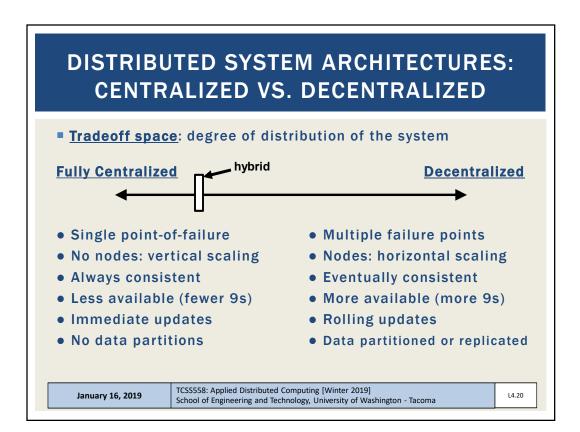


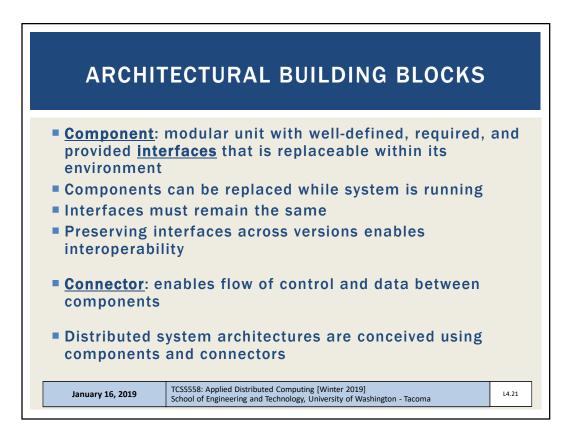


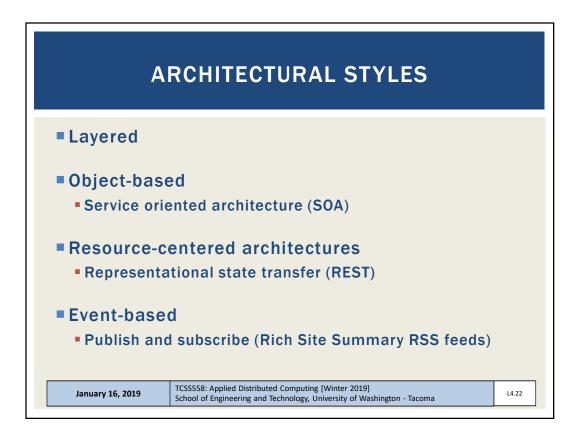




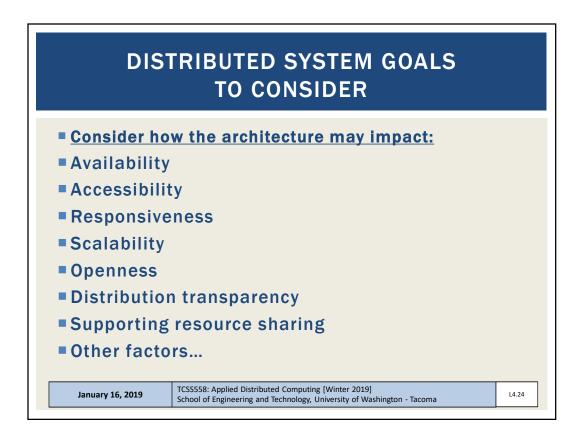


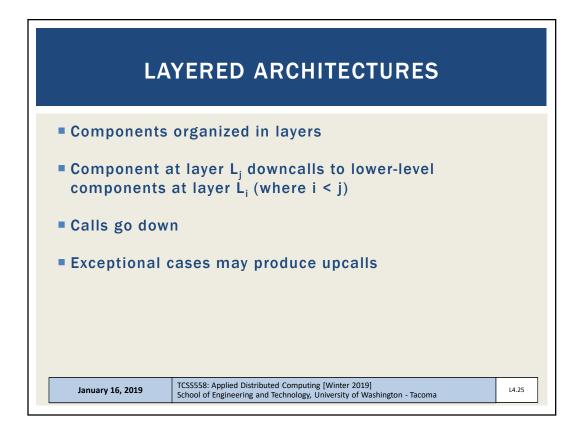


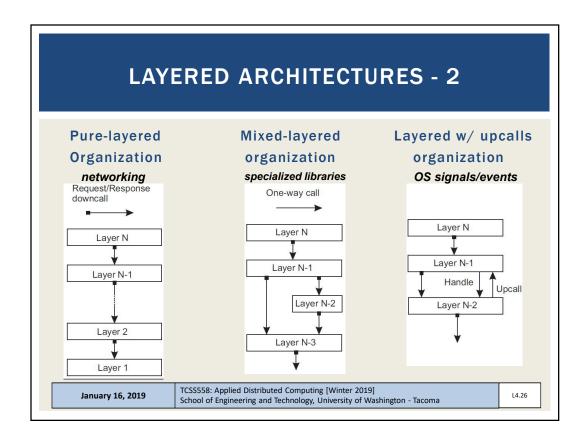


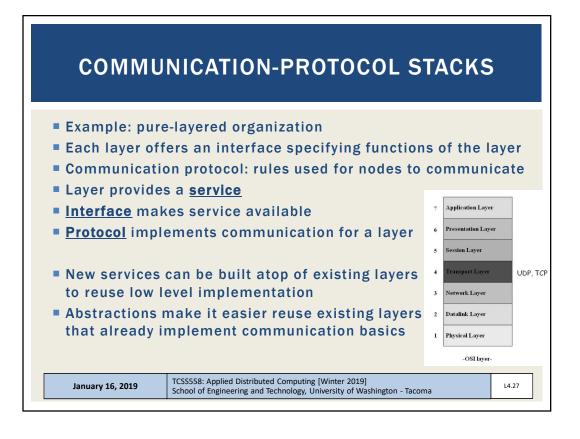


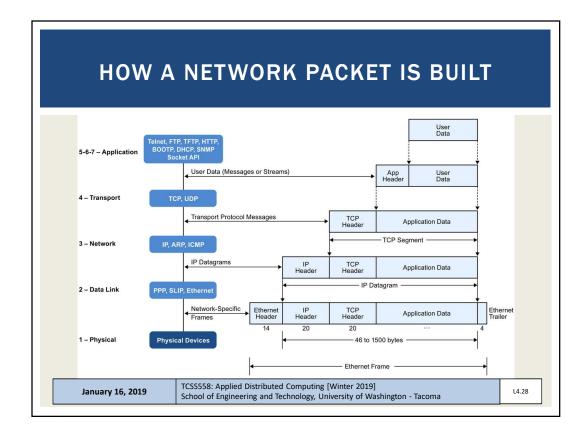
ARCHITECTURAL STYLES		
Layered		
Object-base Service orie	ed ented architecture (SOA)	
	entered architectures ational state transfer (REST)	
Event-base Publish and	d d subscribe (Rich Site Summary RSS feeds)	
January 16, 2019	TCSS558: Applied Distributed Computing [Winter 2019] School of Engineering and Technology, University of Washington - Tacoma	L4.23

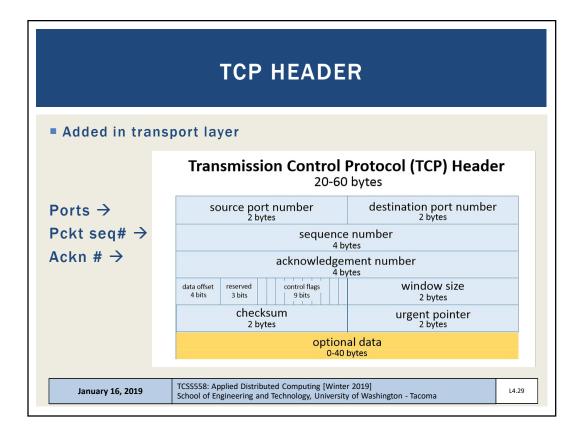


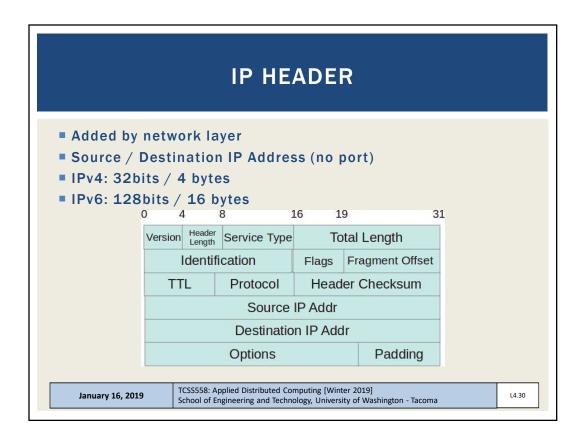


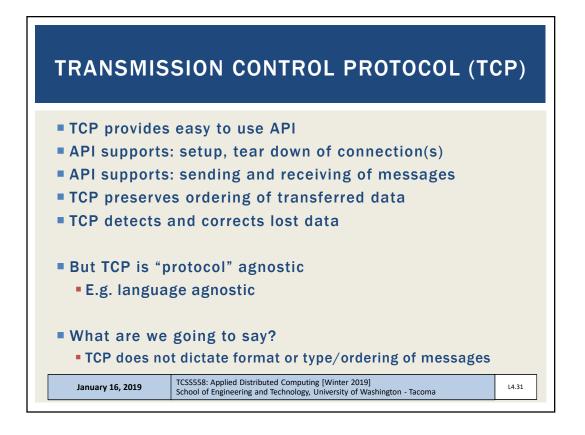


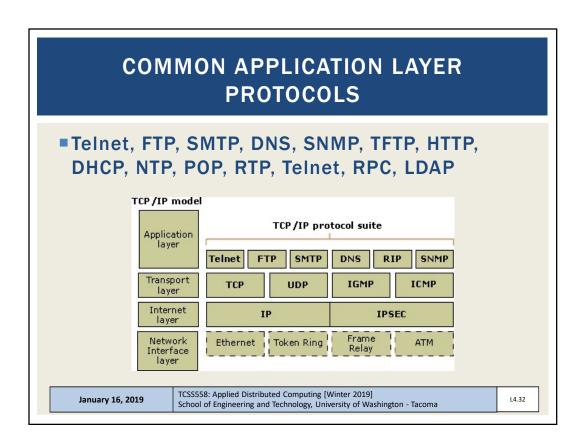


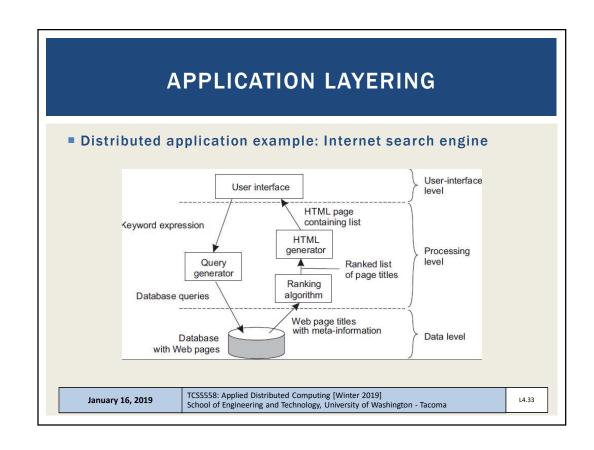


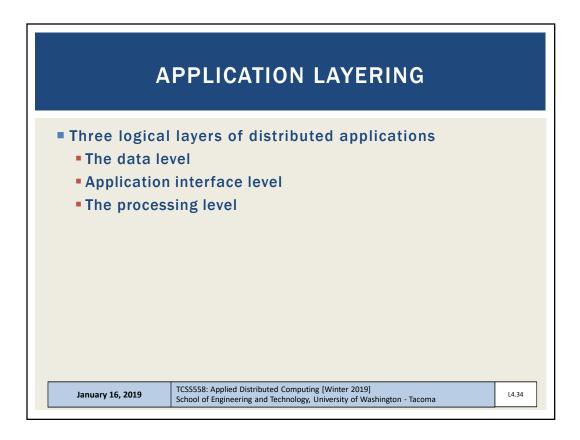


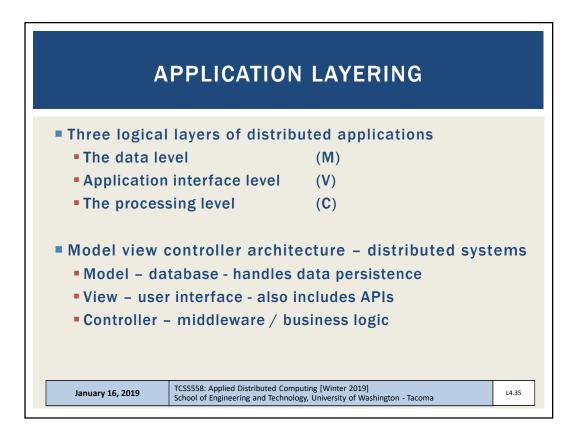


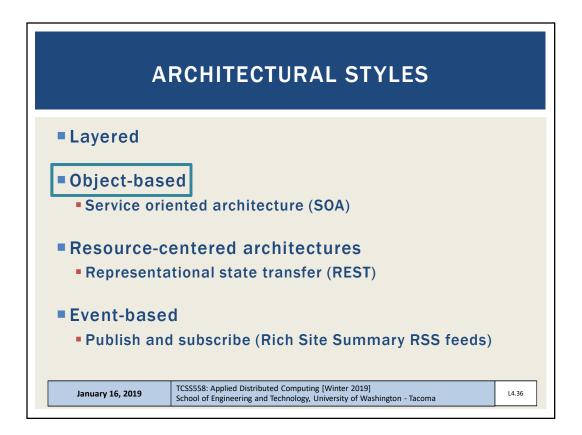


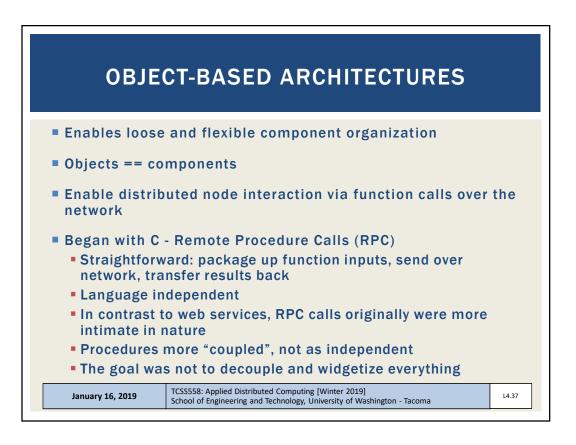


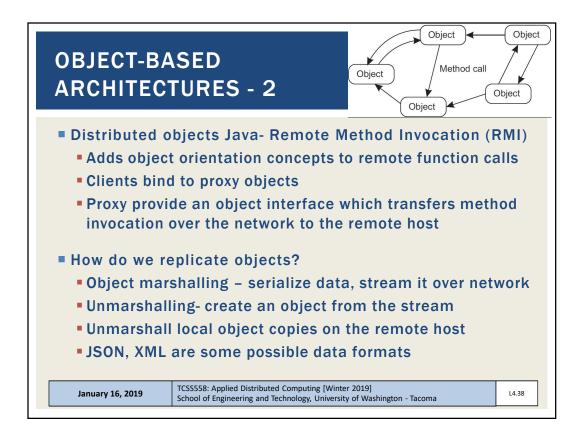


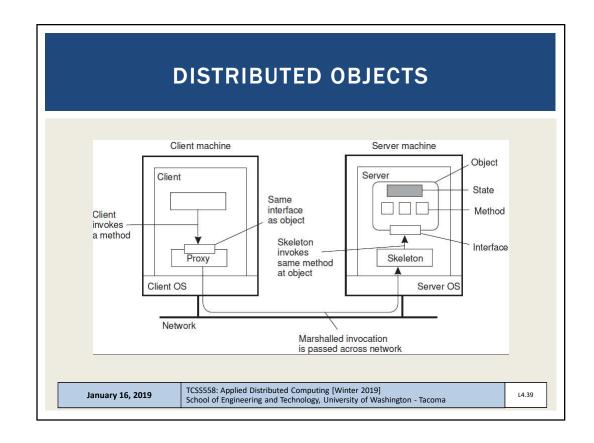


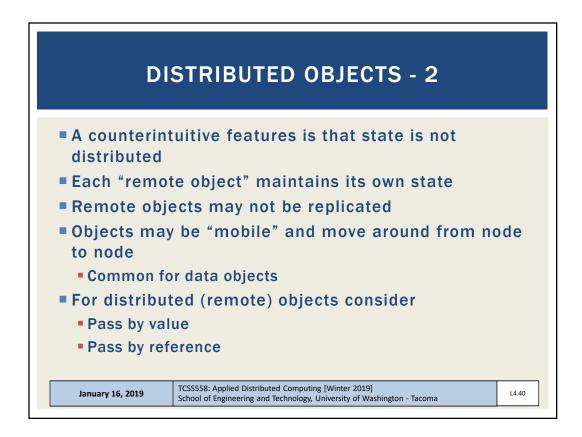


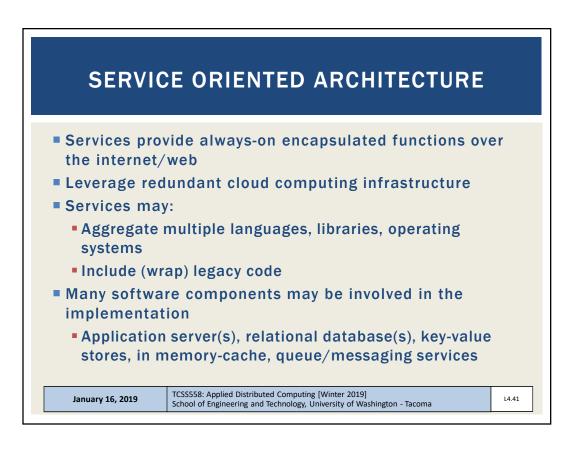


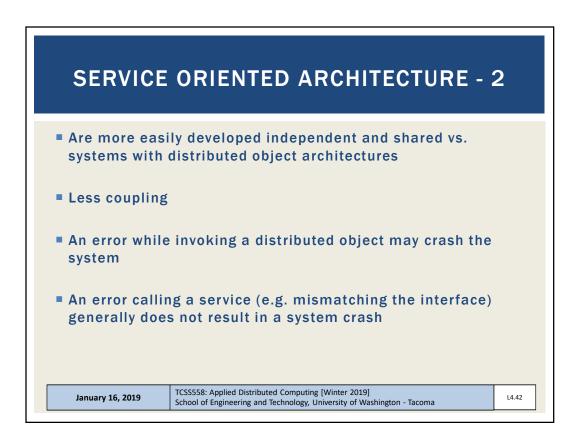


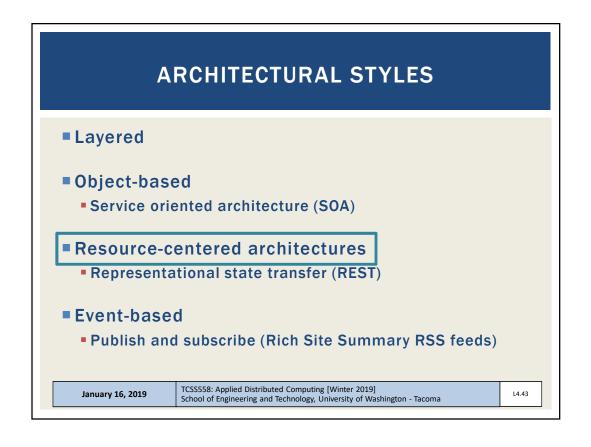


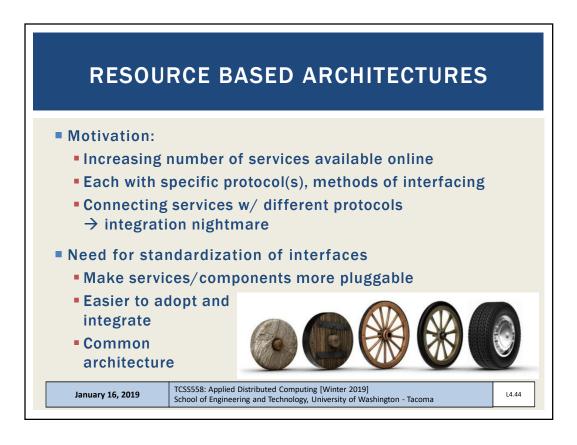


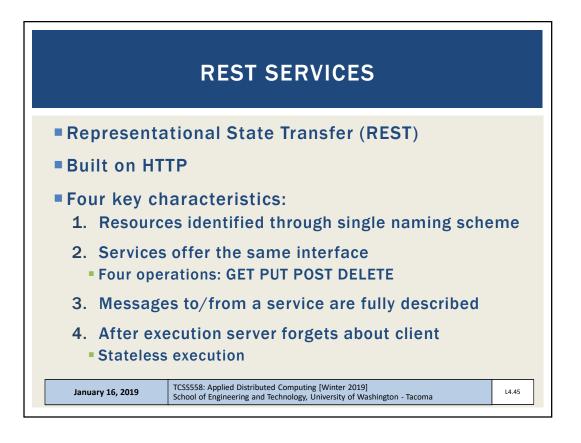


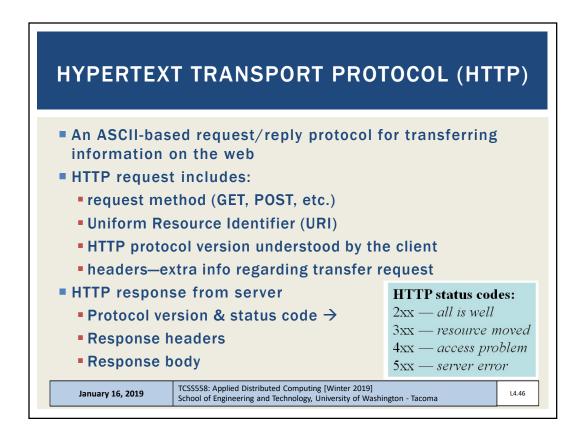




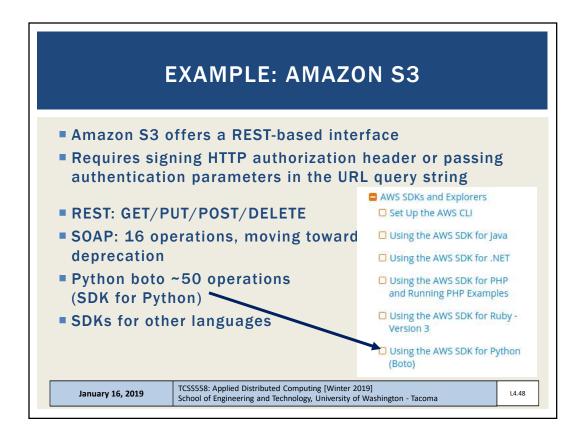


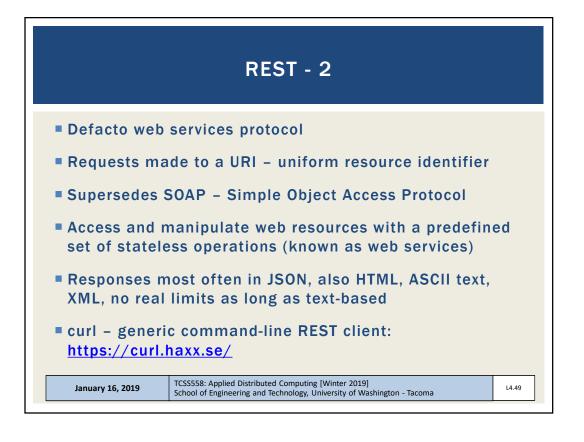






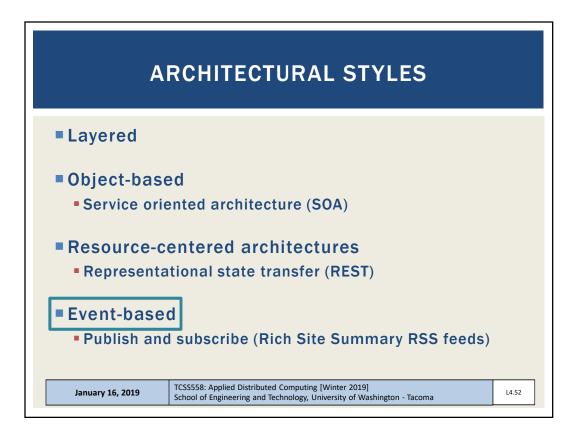
REST-FUL OPERATIONS				
Operation	Description			
PUT	Create a new resource	(C)reate		
GET	Retrieve state of a resource in some format	(R)ead		
POST	Modify a resource by transferring a new state	(U)pdate		
DELETE	Delete a resource	(D)elete		
REST is	es often implemented as objects in OO langua weak for tracking state REST interfaces enable ubiquitous "so many"	-		

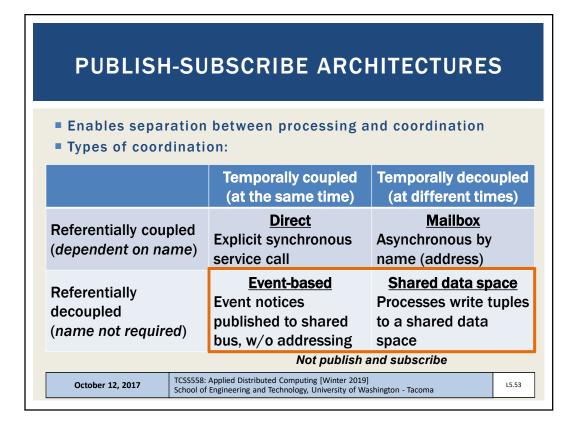


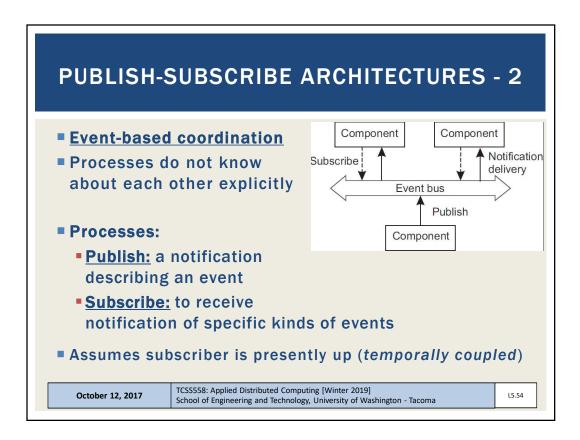


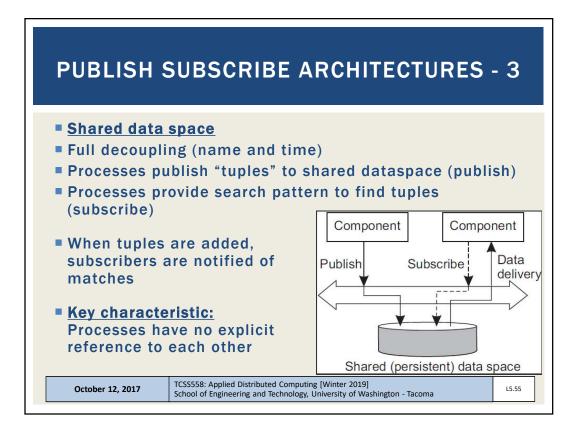
xml version="1.0" encoding="UTF-8"?> lefinitions name ="DayOfWeek"	
erinitions name = "Dayofweek" targetNamespace="http://www.roguewave.com/soapworx/examples/DayOfWeek.wsdl"	
targetmanespace = nctp://www.ioguewave.com/soapwork/saamples/bayoiweek.wsli xmlns:tns="http://www.roquewave.com/soapwork/examples/bayofweek.wsli	
Aminis.cms= http://www.ioguewave.com/soapwork/examples/bayorweek.wsur xmlns:soap="http://schemas.xmlsoap.org/wsul/soap/"	
xmlns:soap="http://schemas.xmlsoap.org/wsd/soap/" xmlns:xsd="http://www.w3.org/2001/XMLSchema"	
xmlns:xsd="nttp://www.ws.org/2001/xmlschema" xmlns="http://schemas.xmlsoap.org/wsdl/">	
Aminas netty // schwaszamisas.amisag.org/wsu////	
<pre>sage name= bayoiweekinput / <pre>sage name= date= type="xsd:date"/></pre></pre>	
<pre>/message></pre>	
<pre></pre> sage/ /message/ /message name="DayOfWeekResponse">	
<pre><pre>cpart name="dayOfWeek" type="xsd:string"/></pre></pre>	
<pre>/message></pre>	
<pre><pre><pre><pre>could be added and a second be added a second</pre></pre></pre></pre>	
<pre><pre>coperation name="GetDayOfWeek"></pre></pre>	
<input message="tns:DayOfWeekInput"/>	
<pre><output message="tns:DayOfWeekResponse"></output></pre>	
<pre></pre>	
<soap:binding <="" style="document" td=""><td></td></soap:binding>	
transport="http://schemas.xmlsoap.org/soap/http"/>	
<pre><operation name="GetDayOfWeek"></operation></pre>	
<soap:operation soapaction="getdayofweek"></soap:operation>	
<input/>	
<soap:body <="" th="" use="encoded"><th></th></soap:body>	
namespace="http://www.roguewave.com/soapworx/examples"	
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>	
<output></output>	
<soap:body <="" td="" use="encoded"><td></td></soap:body>	
namespace="http://www.roguewave.com/soapworx/examples"	
encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"/>	
<pre><service name="DayOfWeekService"></service></pre>	
<documentation></documentation>	
Returns the day-of-week name for a given date	
<pre><port binding="tns:DayOfWeekBinding" name="DayOfWeekPort"> <soap:address location="http://localhost:8090/dayofweek/DayOfWeek"></soap:address></port></pre>	
<pre><soap:address location="http://locathost:0090/dayorweek/bayorweek"></soap:address> </pre>	
 definitions>	
	L4.5

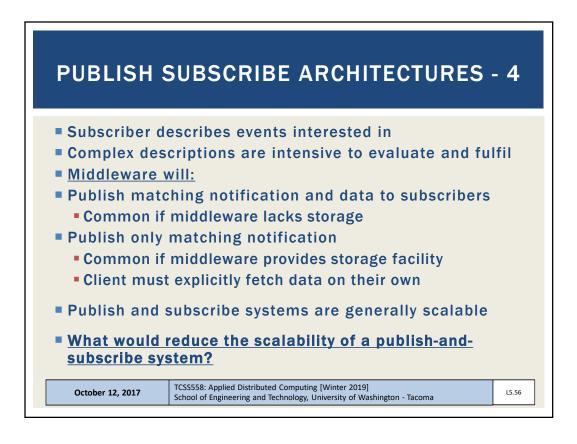
```
// REST/JSON
// Request climate data for Washington
(
    "parameter": [
    "name": "latitude",
    "value":47.2529
    },
    [
    "name": "longitude",
    "value":-122.4443
    ]
  }
```



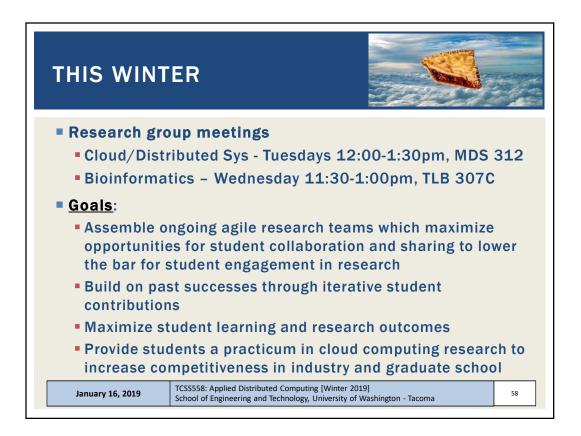


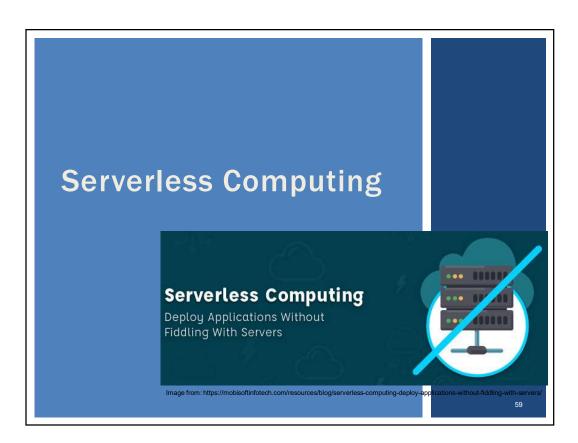


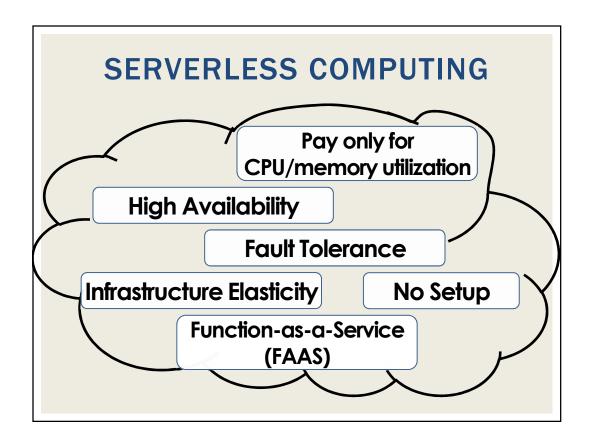










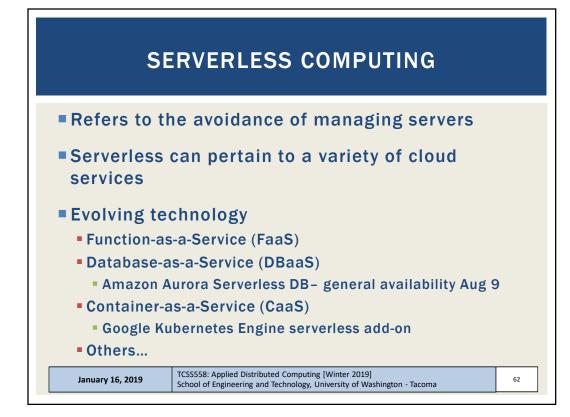




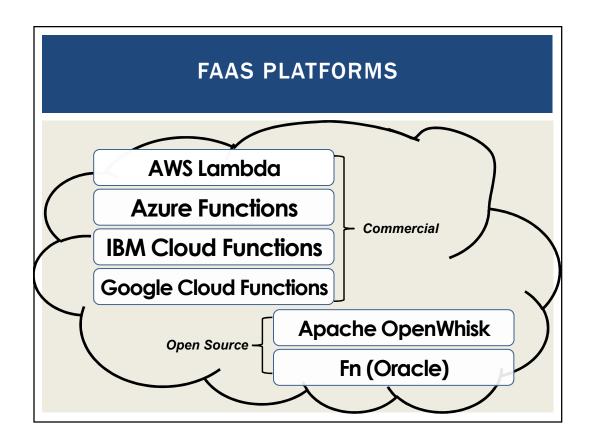
Why Serverless Computing?

Many features of distributed systems, that are challenging to deliver, are provided automatically

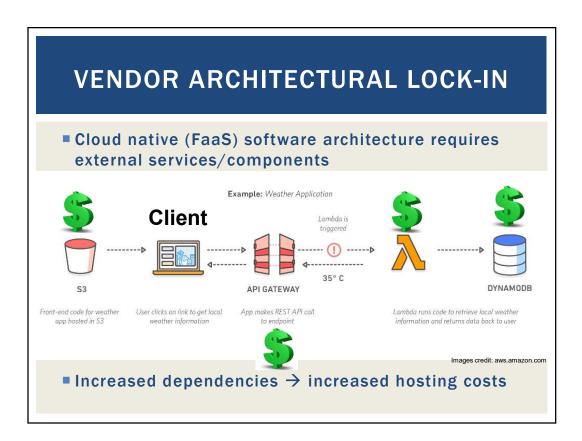
...they are built into the platform



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PRICING OBFUSCATION		
VM pricing:	hourly rental pricing, billed to nearest second is intuitive	
FaaS pricing:	non-intuitive pricing policies	
■ <u>FREE TIER:</u> first	1,000,000 function calls/month → FREE first 400,000 GB-sec/month → FREE	
Afterwards:	obfuscated pricing (AWS Lambda):	
	\$0.0000002 per request	
	\$0.000000208 to rent 128MB / 100-ms	
	\$0.00001667 GB /second	
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