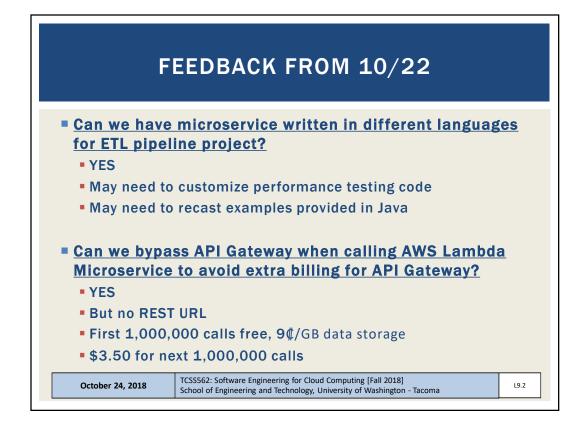
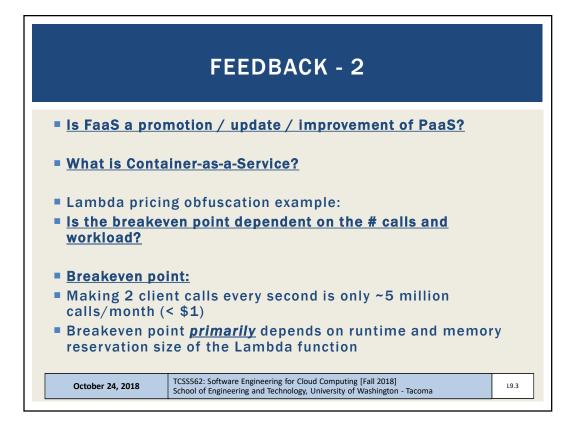


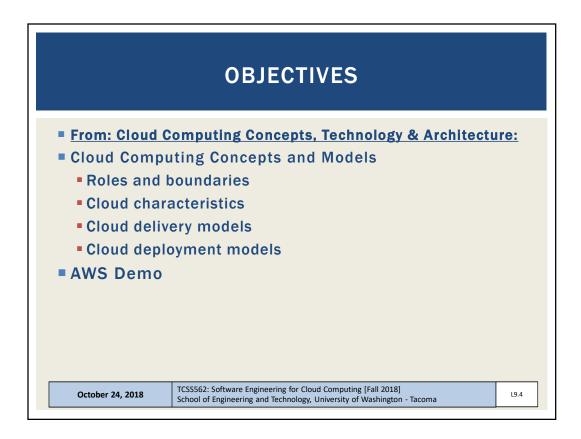
<u>Cloud Computing:</u> Cloud Delivery Models II AWS Demo

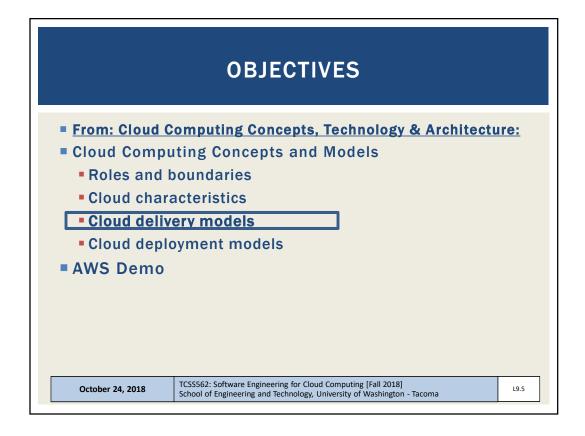
Wes J. Lloyd School of Engineering and Technology University of Washington - Tacoma

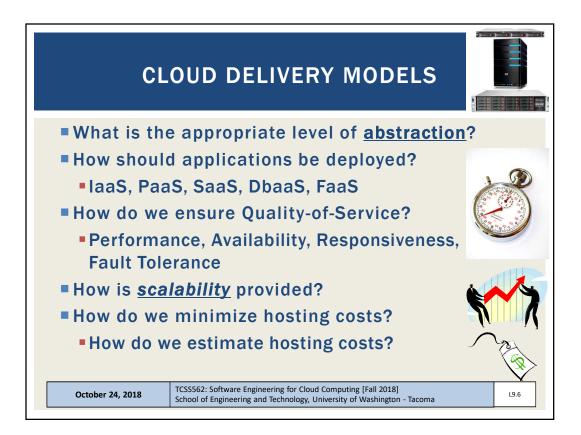


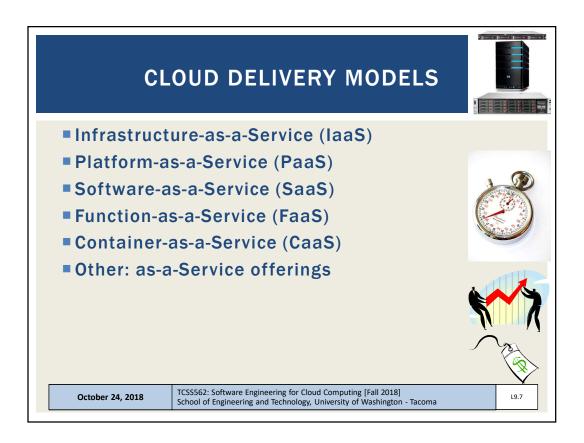


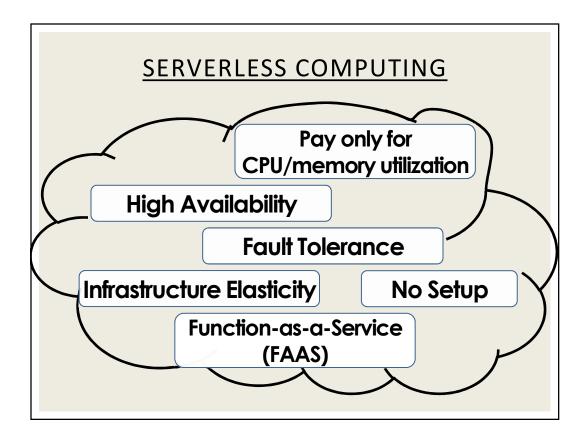


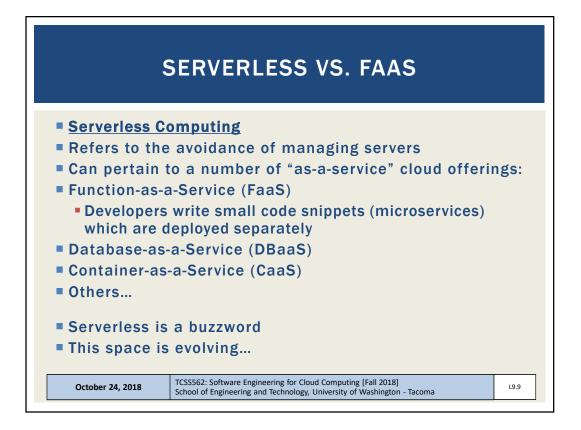


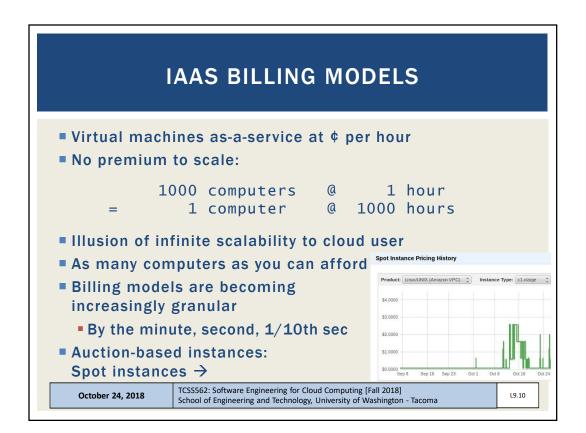


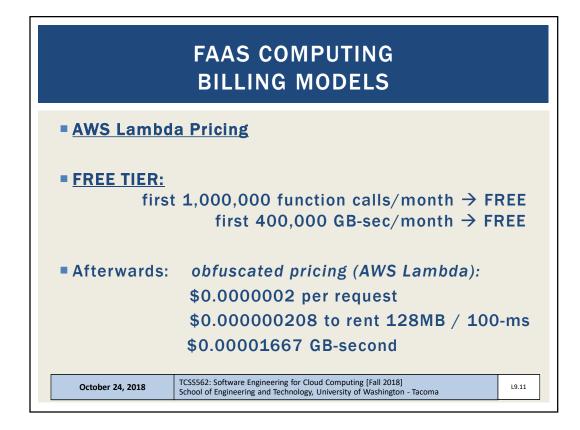


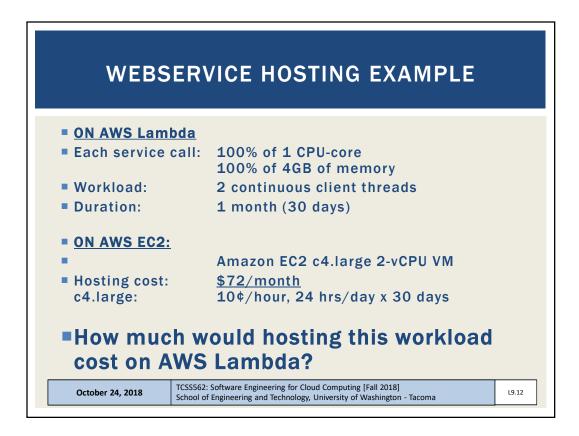


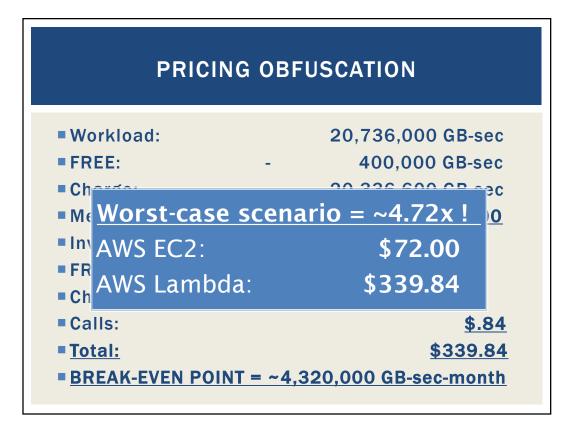


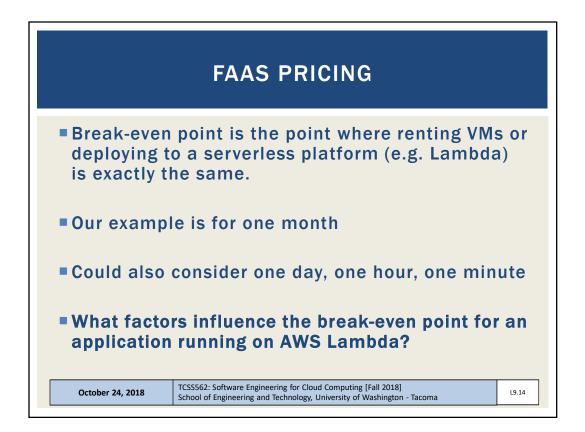


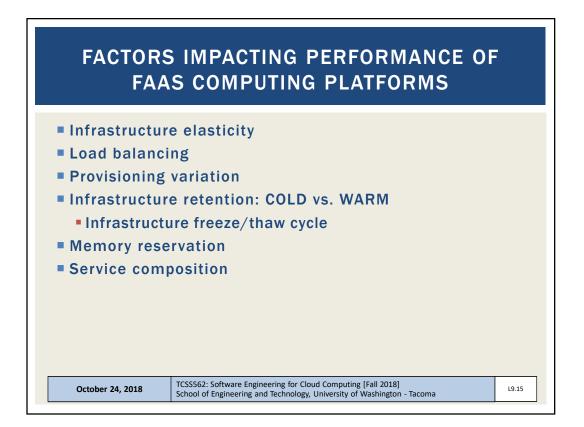


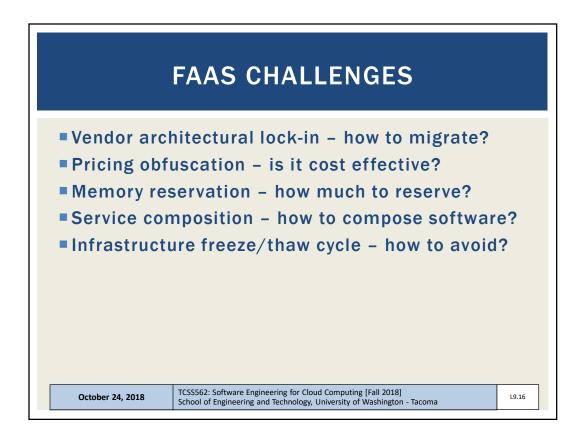


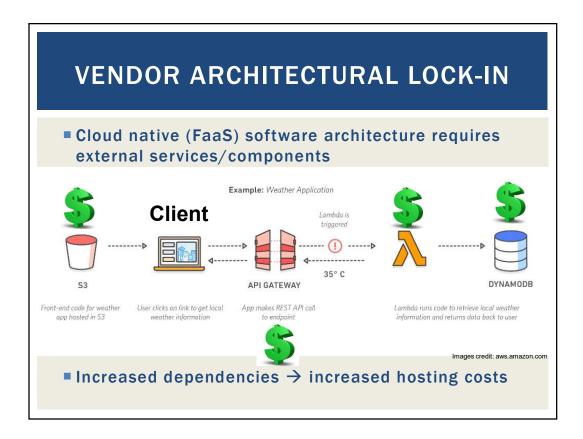




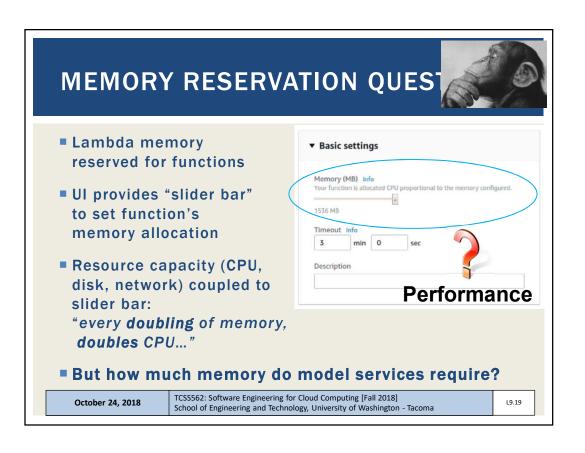


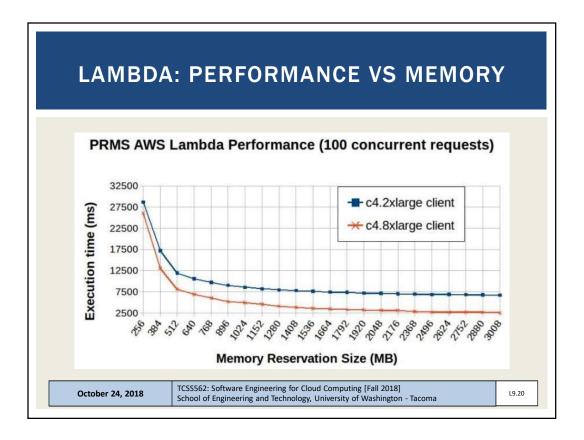


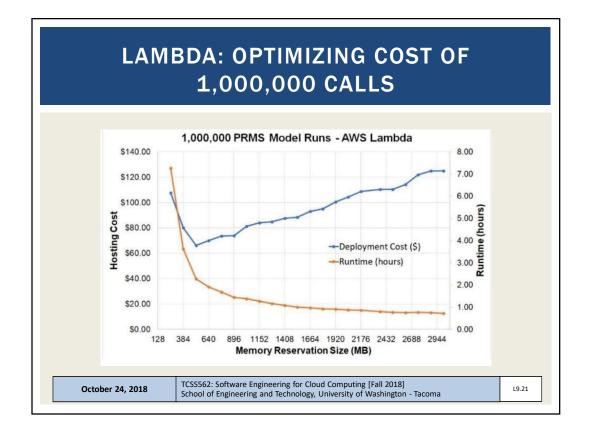


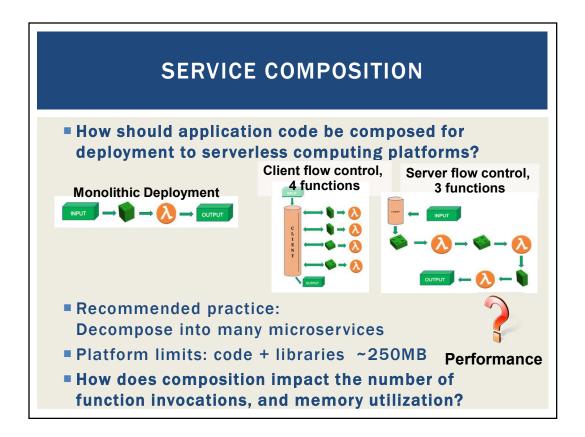


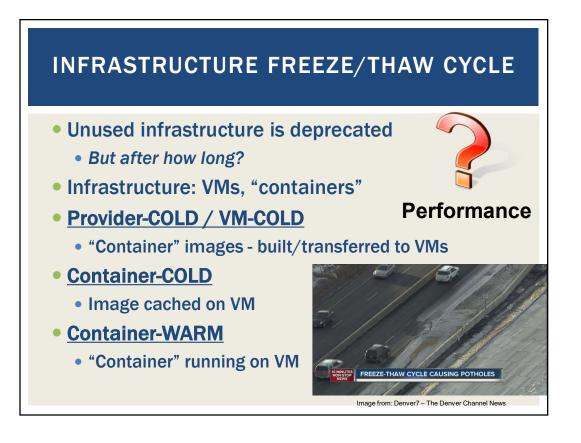
PRICING OBFUSCATION							
■ <u>VM pricing</u>	hourly rental pricing, billed to nearest second is intuitive						
FaaS pricing:							
AWS Lambda PricingFREE TIER:first 1,000,000 function calls/month → FREEfirst 400 GB-sec/month → FREE							
Afterwards:	\$0.000002 per request						
	\$0.00000208 to rent 128MB / 100-ms						
October 24, 2018	TCSS562: Software Engineering for Cloud Computing [Fall 2018]L9.18School of Engineering and Technology, University of Washington - TacomaL9.18						

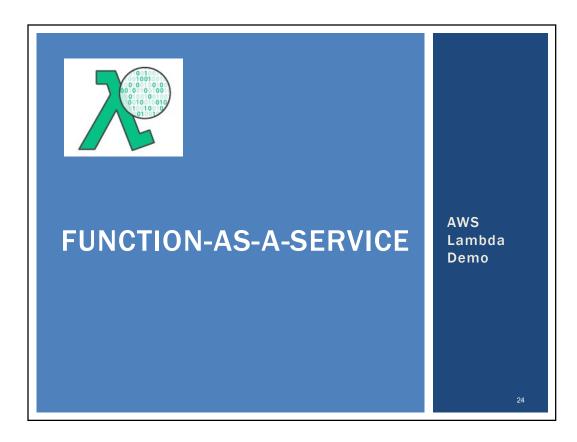


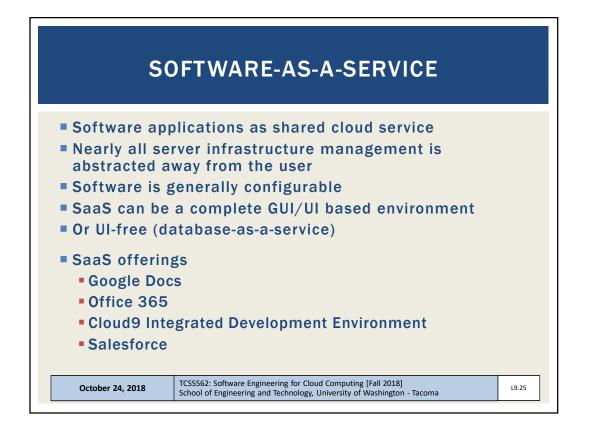


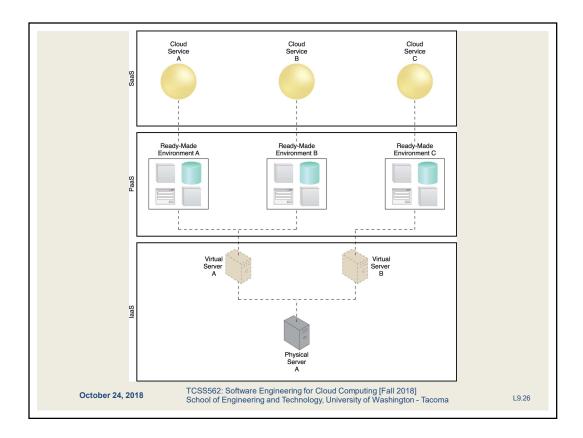


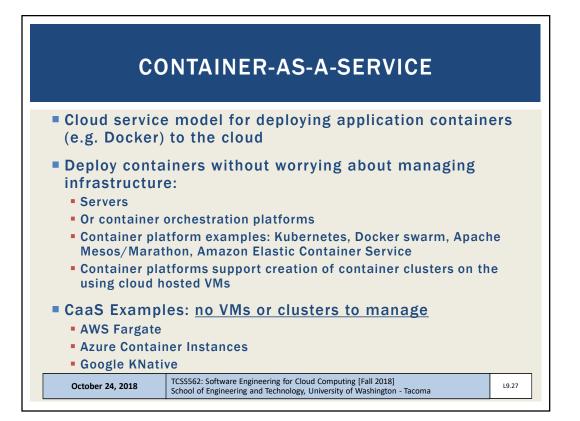


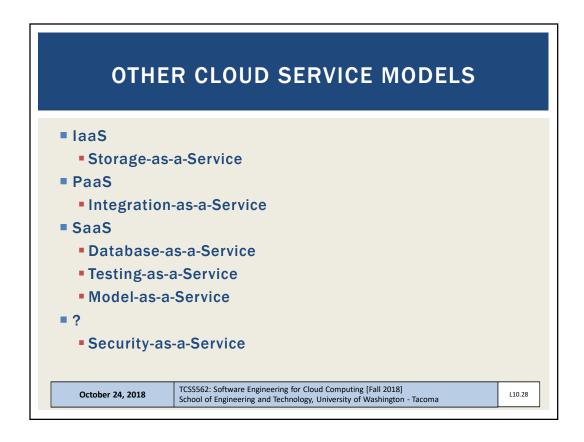


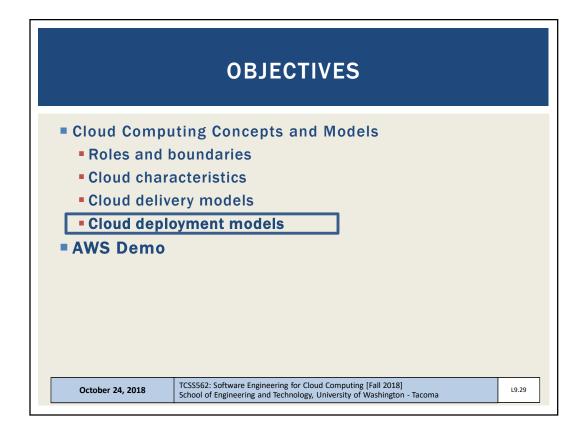


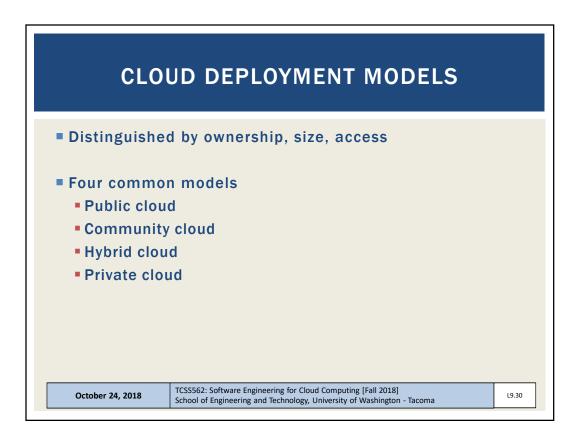


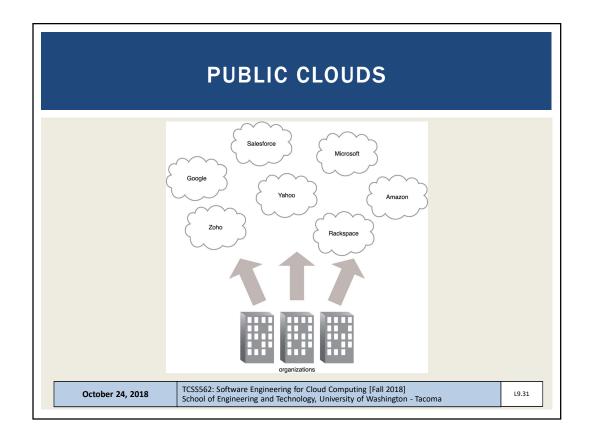


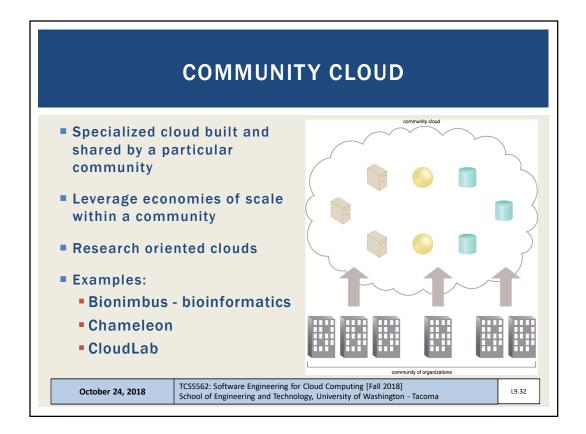


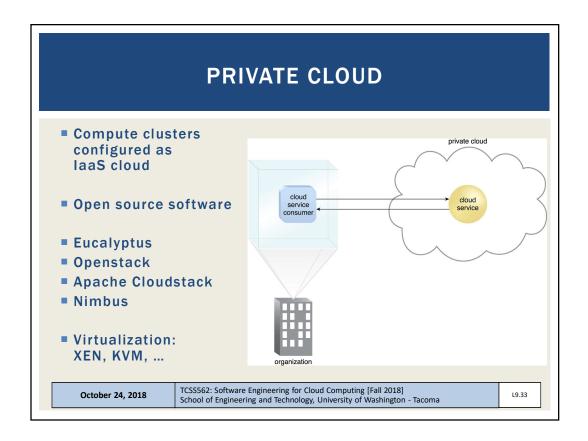


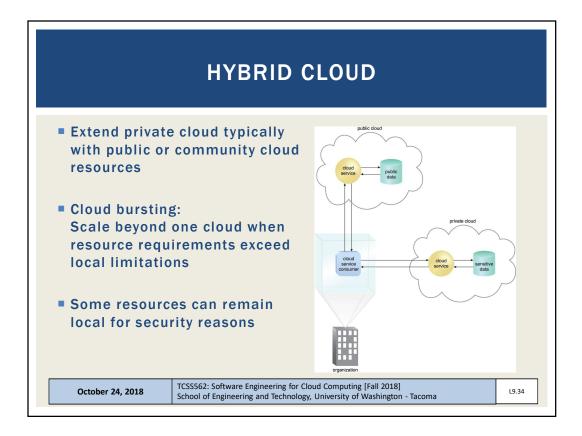


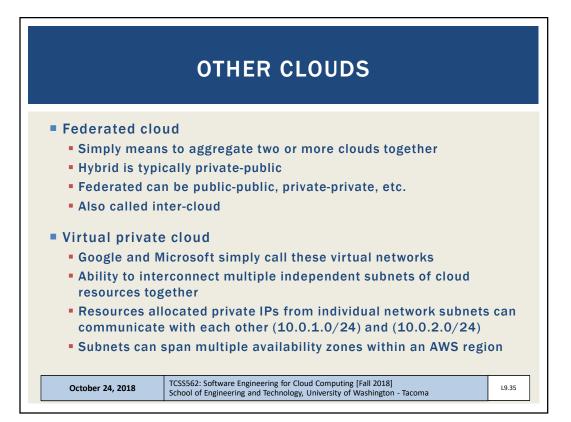


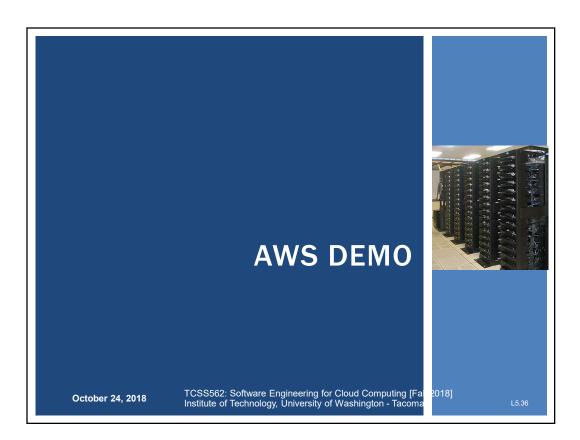


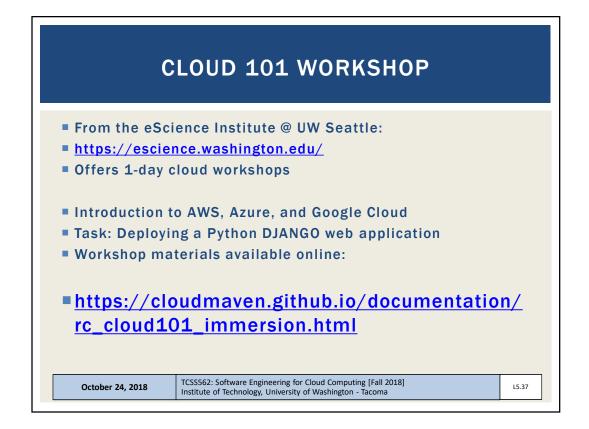




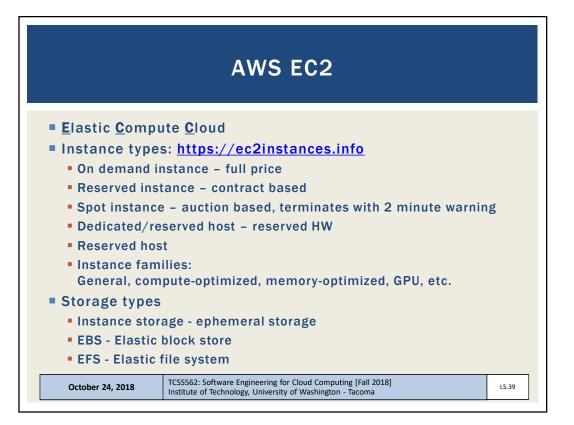


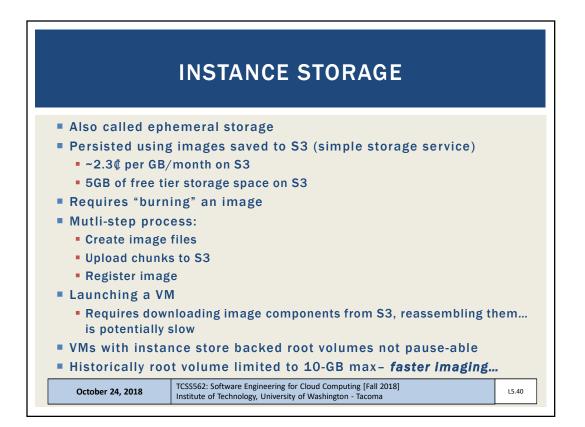


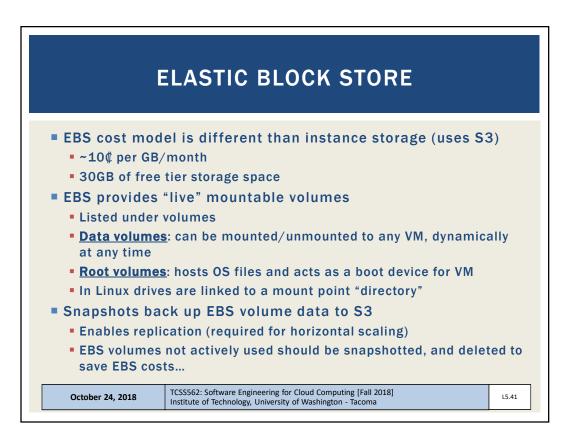


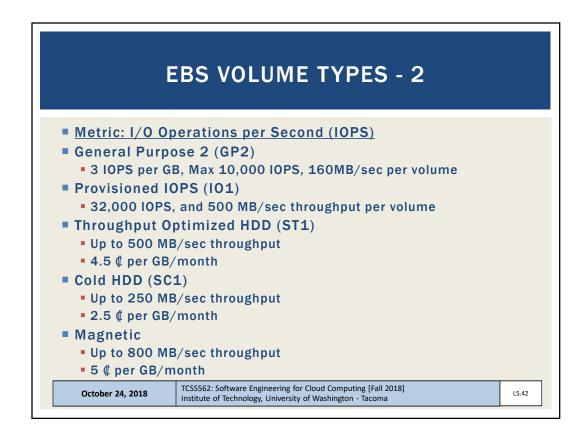


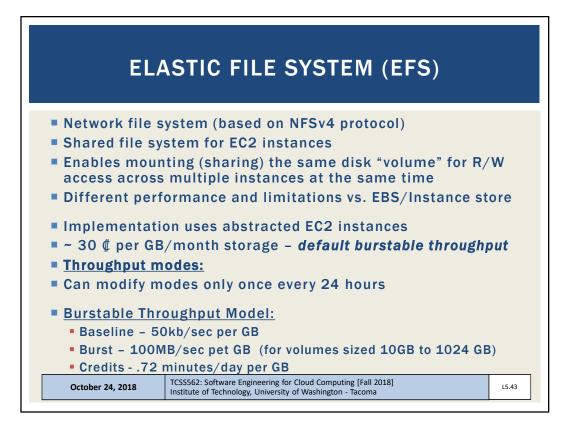
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Apps In NSF In nsfcloud	A			0		nal management environment
Services A Ro	esource Groups 👻 🛠			۵	Wes Lloy	i ← N. Virginia ← Support ←
History	Search services					
EC2	Search services					Group A-Z
S3	Compute	Developer Tools	สต์ปี้	Analytics		Application Services
Billing	EC2	CodeCommit	000	Athena	2	Step Functions
IAM	EC2 Container Service	CodeBuild		EMR		SWF
Console Home	Lightsail C Elastic Beanstalk	CodeDeploy CodePipeline		CloudSearch Elasticsearch Service		API Gateway Elastic Transcoder
VPC	Lambda	X-Ray		Kinesis		
	Batch			Data Pipeline	<b>P</b>	Messaging
		Management Tools		QuickSight	1-4	Simple Queue Service
	Storage	CloudWatch	(TP)			Simple Notification Service
	S3 FES	CloudFormation	0.0	Artificial Intelligence Lex		SES
	Glacier	Config		Polly	_	
	Storage Gateway	OpsWorks		Rekognition	A	Business Productivity
		Service Catalog Trusted Advisor		Machine Learning		WorkDocs WorkMail
	Database	Managed Services				Amazon Chime
	RDS		Ŧ	Internet Of Things		
	DynamoDB ElastiCache	Security, Identity & Comp	2	AWS IoT		Desktop & App Streaming
	Redshift	IAM	0			WorkSpaces
		Inspector	6_0	Contact Center Amazon Connect		AppStream 2.0
	Networking & Content D	Certificate Manager Directory Service		Amazon Connect		
	VPC	WAF & Shield	100	Game Development		1





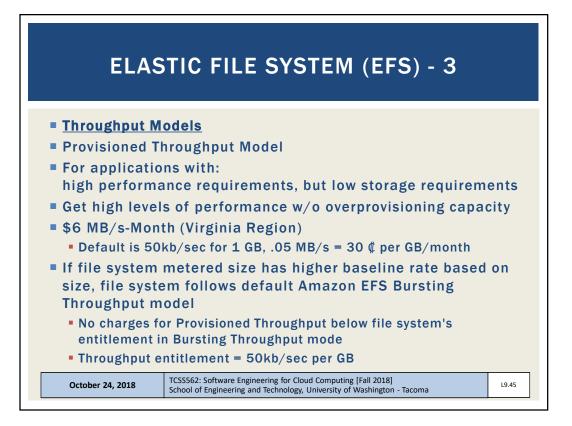






ELASTIC FILE SYSTEM (EFS) - 2						
• Thro	able Throughpu ughput rates: ba lit model for burs	seline vs burst		,		
File System Size (GiB)	Baseline Aggregate Throughput (MiB/s)	Burst Aggregate Throughput (MiB/s)	Maximum Burst Duration (Min/Day)	% of Time File System Can Burst (Per Day)		
10	0.5	100	7.2	0.5%		
256	12.5	100	180	12.5%		
512	25.0	100	360	25.0%		
1024	50.0	100	720	50.0%		
1536	75.0	150	720	50.0%		
2048	100.0	200	720	50.0%		
3072	150.0	300	720	50.0%		
4096	200.0	400 720		50.0%		

## Slides by Wes J. Lloyd



	ELASTIC	FILE SYST	Ē	M (EFS) - 4		
P	erformance Compari	son, Amazon EFS and Ar	nazon	EBS		
		Amazon EFS	Ama	zon EBS Provisioned IOPS		
F	Per-operation latency	Low, consistent latency.	Low	est, consistent latency.		
Т	hroughput scale	10+ GB per second.	Up t	to 2 GB per second.		
Storage Cha	aracteristics Comparis	son, Amazon EFS and An	nazon	EBS Amazon EBS Provisioned IOPS		
Availability and durability	Data is stored redundantly across multiple AZs.		Data is stored redundantly in a single AZ.			
Access	Up to thousands of Amazon EC2 instances, from multiple AZs, can connect concurrently to a file system.			A single Amazon EC2 instance in a single AZ can connect to a file system.		
Use cases	Big data and analytics, media processing workflows, content management, web serving, and home directories.		Boot volumes, transactional and NoSQL databases, data warehousing, and ETL.			
October 24, 2018 TCSS562: Software Engineering for Cloud Computing [Fall 2018]   School of Engineering and Technology, University of Washington - Tacoma						

