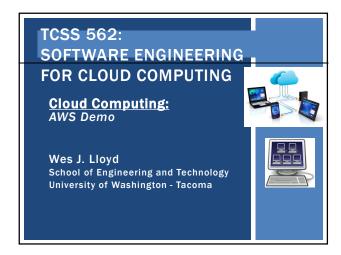
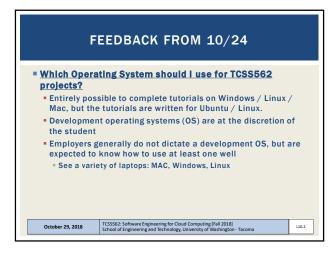
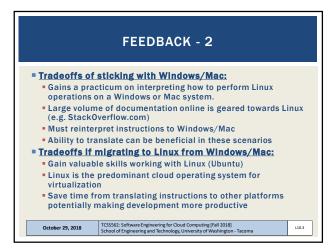
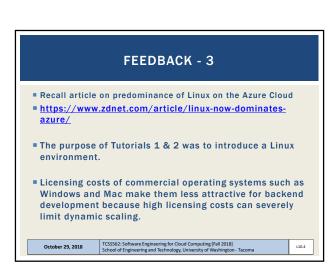
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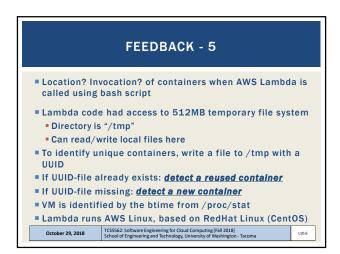


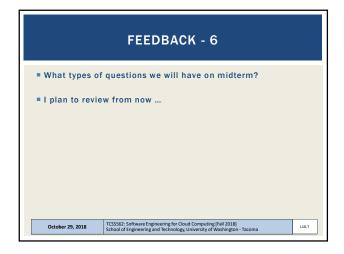


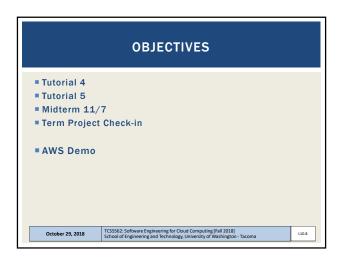


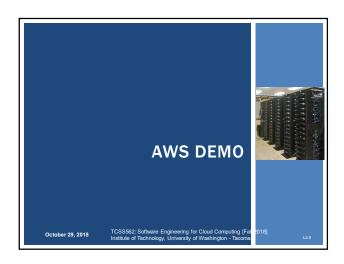


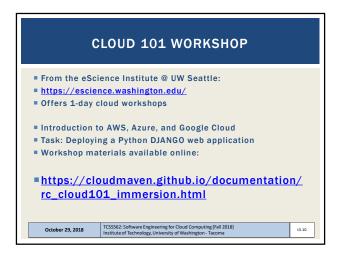
FEEDBACK - 4 Is there any difference in communication (network) latency between a DBaaS (Amazon Relational Database Service - RDS) and? An application server (e.g. Apache Tomcat) hosted on an EC2 instance Application code deployed to AWS Lambda Think of AWS Lambda as a c4.large EC2 instance Memory setting controls CPU power and network throughput TCSSS62: Software Engineering for Cloud Computing [Fall 2018] School of Engineering and Technology, University of Washington-Tacoma

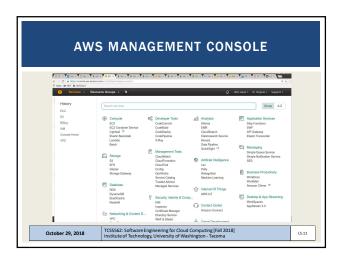


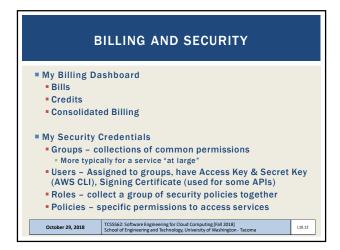


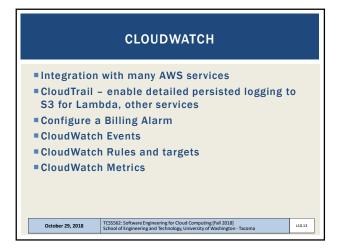


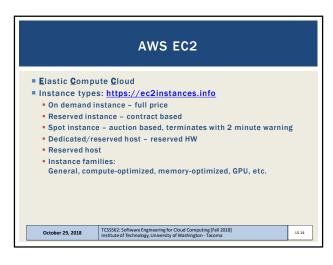


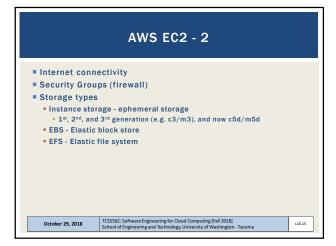


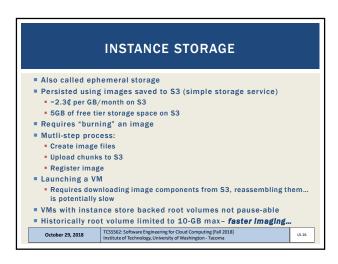


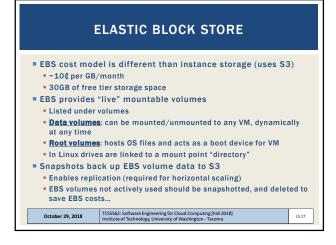


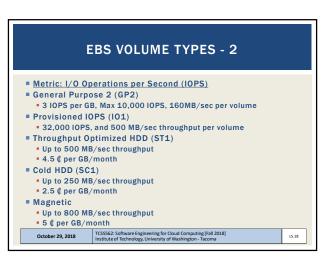




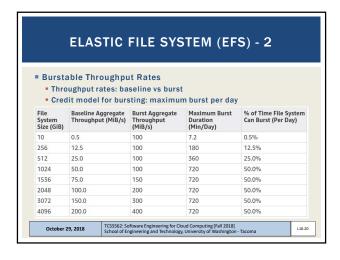


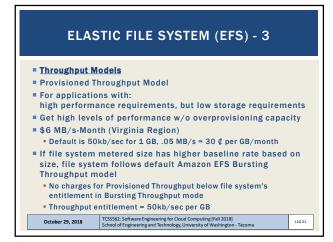


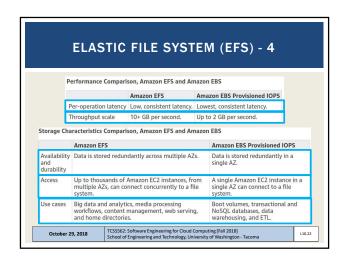


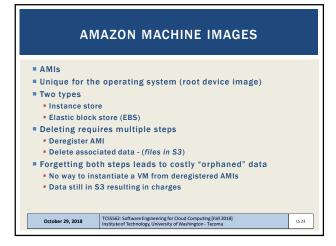


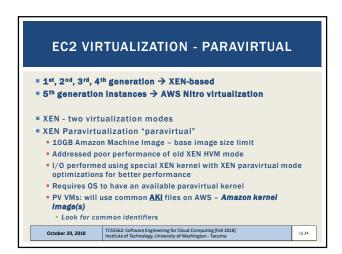


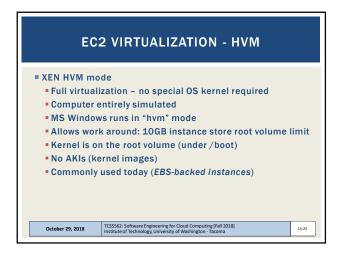


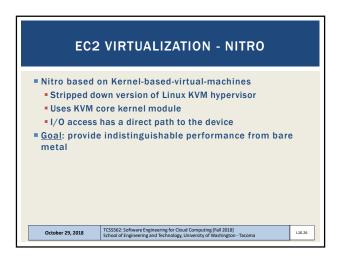


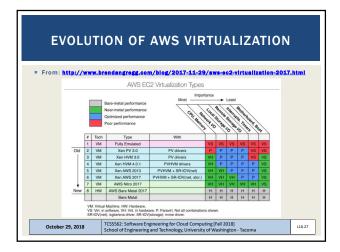


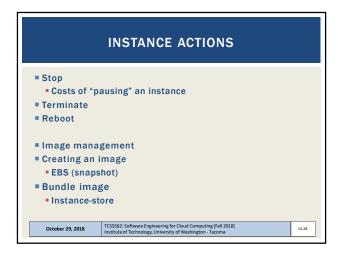












EC2 INSTANCE: NETWORK ACCESS

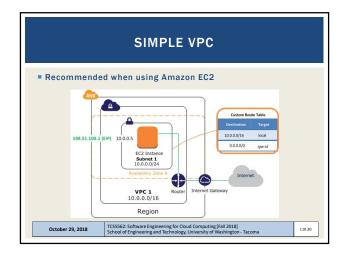
Public IP address
Elastic IPs
Costs: in-use FREE, not in-use ~12 (/day
Not in-use (e.g. "paused" EBS-backed instances)

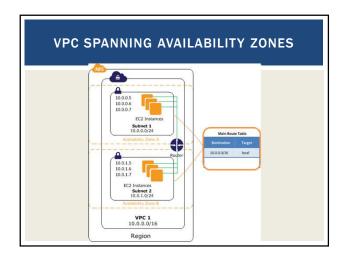
Security groups
E.g. firewall
Identity access management (IAM)
AWS accounts, groups

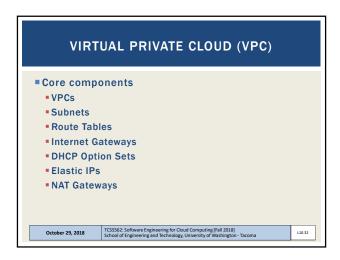
VPC / Subnet / Internet Gateway / Router
NAT-Gateway

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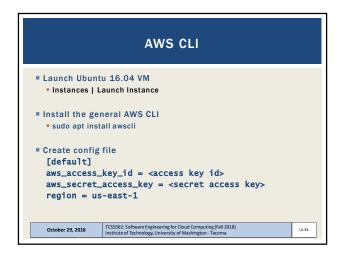
SIMPLE STORAGE SERVICE (S3)

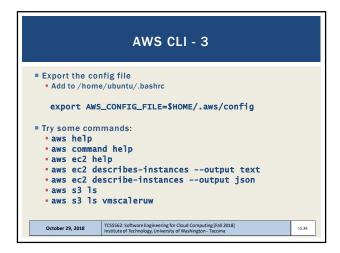
Rey-value blob storage
What is the difference vs. key-value stores (NoSQL DB)?

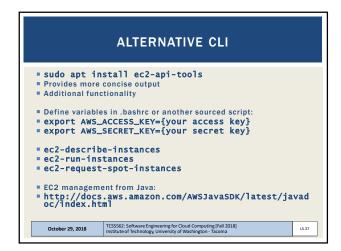
Can mount an S3 bucket as a volume in Linux
Supports common file-system operations

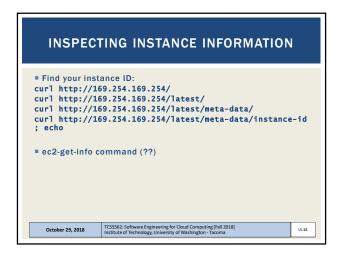
Provides eventual consistency

Can store Lambda function state for life of container.









PRIVATE KEY AND CERTIFICATE FILE

Install openssI package on VM

generate private key file
\$openssI genrsa 2048 > mykey.pk

generate signing certificate file
\$openssI req -new -x509 -nodes -sha256 -days 36500 -key
mykey.pk -outform PEM -out signing.cert

Add signing.cert to IAM | Users | Security Credentials |
- - new signing certificate -
From: http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/setup-ami-tools.html?icmpid=docs_iam_console#ami-tools-createcertificate

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Institute of Technology, University of Washington-Tacoma



CREATE A NEW INSTANCE STORE

IMAGE SCRIPT

image=\$1
echo "Burn image \$image"
echo "\$image" > image.id
mkdir /mnt/tmp
AMS_KEY_DIR=/home/ubuntu/.aws
export ECZ_URL=http://ec2.amazonaws.com
export SZ_URL=http://ec2.amazonaws.com
export SZ_URL=http://es2.amazonaws.com
export ECZ_URYATE_KEY=\${AMS_KEY_DIR}/mykey.pk
export ECZ_CERT=\${AMS_KEY_DIR}/signing.cert
export AWS_USER_ID={your account id}
export AMS_SECRET_KEY={your aws secret key}
ecZ-bundle-vol -s 5000 -u \${AMS_USER_ID} -c \${ECZ_CERT} -k \${ECZ_PRIVATE_KEY}
-ecZetr /etc/ec2/amitools/cert-ec2.pem -no-inherit -r x86_64 -p \$image -1
/etc/ec2/amitools/ecd-ec2.pem -no-inherit -r x86_64 -p \$image -1
/etc/ec2/amitools/ecd-ec2.pem -no-inherit -r x86_64 -p \$image -1
/etc/ec2

