# WDI29 Lightning Talk - Amazon S3

What problem does this technology solve?
How do you use it? Is there a "cheatsheet" you found or made that others can reference?
What did you build? (demo)
- [ ] 10-min talk
- [ ] Cheatsheet
- [ ] build something

Data storage, your online drive letter
Different solution needed for running a virtual machine with an application and controllers
This is what your application would use for back-end storage

**Video**

**Why** xx
Instead of buying racks, backup, hiring staff, doing security

**What is it** xx
Cloud storage
"Simple Storage Service"
secure, durable, scalable

web interface to store and retrieve

for backups and static files
Your own personal Dropbox or Evernote for business

**Details** xx
pay only for storage, not setup or minimum

levels by frequency of access
Standard
Standard - IA = infrequent
Glacier = low-cost, long-term archive
migrates automatically

there are charges and different latency times for accessing these

by itself or with EC2 or with data migration services
encryption of data and for access

Xx
AWS Free Tier includes 5GB storage, 20,000 Get Requests, and 2,000 Put Requests with Amazon S3

**Transferring data** xx
direct
stream
ship physical drive
transfer acceleration

**Used by** xx
Netflix
AirBnb
SmugMug
NASDAQ

**Netflix**
instances
microservices
org moves to DevOps as data moves to cloud
- test and experiments on new services or instances
- instead of negotiating with IT for servers

**AirBnb**
can focus on primary business, not hosting

**Compares with**
Google Cloud Storage and Microsoft Azure

RESOURCES xx
https://aws.amazon.com/s3
https://cloud.google.com/
https://azure.microsoft.com/en-us/services/storage/
http://www.cloudberrylab.com/blog/amazon-s3-azure-and-google-cloud-prices-compare/

Calculate estimated storage costs for your data set with

AWS Simple Monthly Calculator

Azure Pricing Calculator

Google Cloud Platform Pricing Calculator

**Using it** xx
Hosting a Static Website on Amazon S3
http://docs.aws.amazon.com/AmazonS3/latest/dev/website-hosting-custom-domain-walkthrough.html

http://docs.aws.amazon.com/AmazonS3/latest/dev/WebsiteHosting.html

**Set up**
- choose location
- make a bucket
- store
- get prior versions

**My stuff**
https://console.aws.amazon.com/console/home

1. register domains
2. set up two buckets - your domain.com, www.yourdomain.com
3. upload website files, make public, and configure www... to go to root site.
4. Route 53
   1. create hosted zone
   2. create  two A records (NS and SOA already given), one for root, one for www...

**Interface (use SDKs)**
For browser JS, Node JS, Ruby, etc.
http://aws.amazon.com/code
`bower install aws-sdk-js`

....to be continued