# Infinite Cloud Storage via Abuse of Flickr

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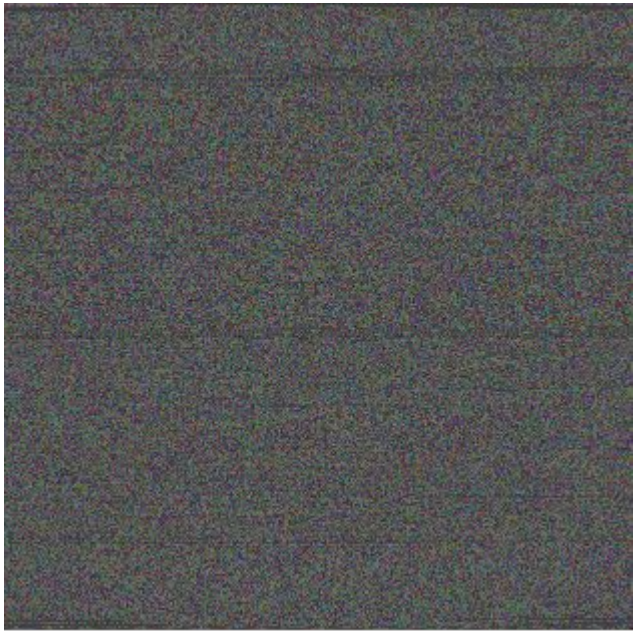
# How?

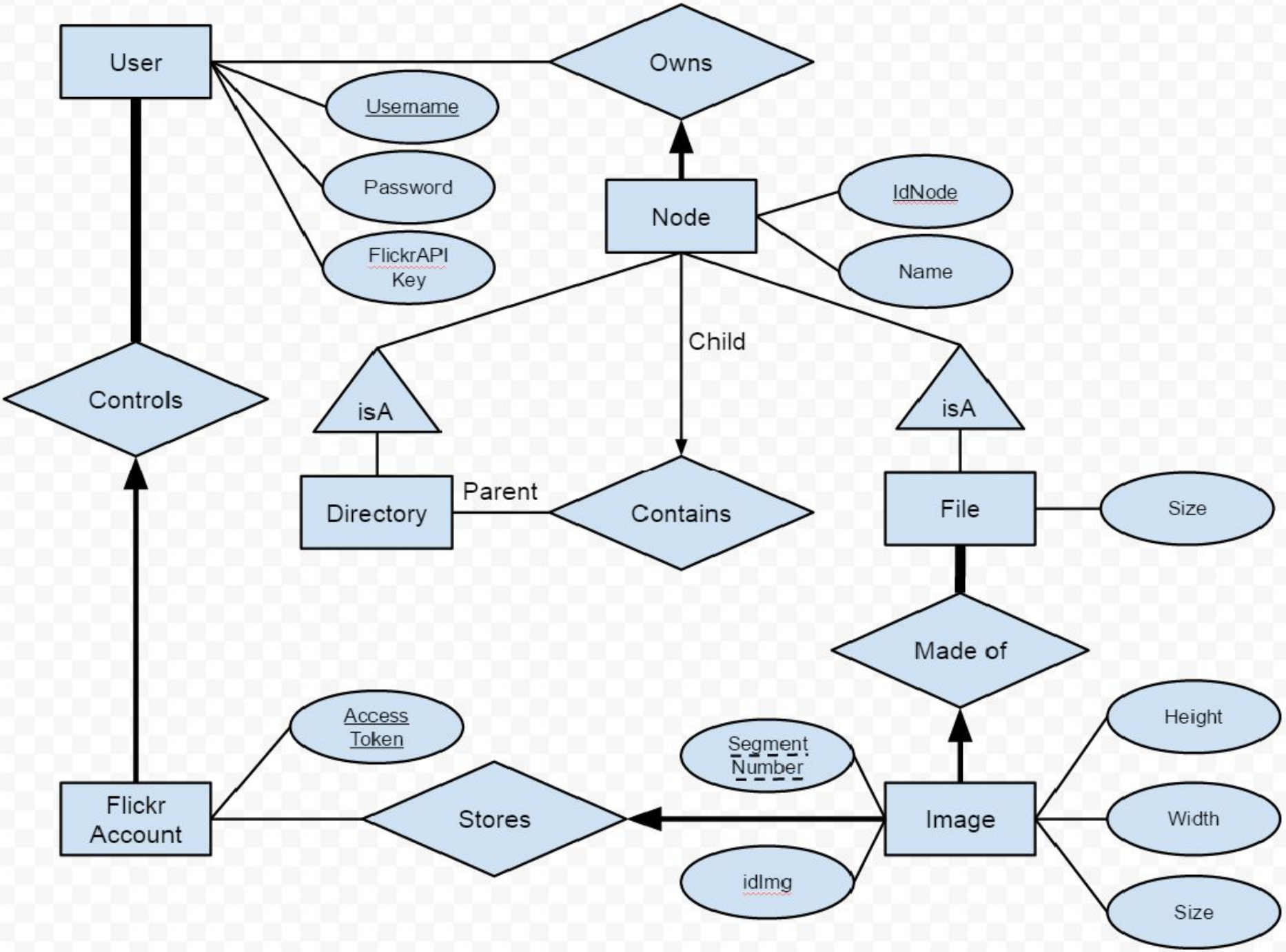
- Flickr supports the Portable Networks Graphics (PNG) format
  - Uses lossless compression
- Encoding a file to an image byte by byte allows perfect reconstruction
- Each Flickr account includes 1 TB of free storage
  - Each API key allows 3600 queries per hour

# Sample File (Hello.docx, 294 KB)



# Security and Scalability

- Flickr supports uploading images for only personal visibility
- Each user can attach as many Flickr accounts to their ICS account as they want
- Each user uses their own keys to bypass API limits
- All file I/O performed client side
  - Server manages database and signs requests


User
Owns
Username
Password
FlickrAPI Key
Node
IdNode
Name
Child
Controls
isA
isA
Directory
Parent
Contains
File
Size
Made of
Access Token
Segment Number
Height
Flickr Account
Stores
Image
Width
idImg
Size

# Try it Out!

infcs.cloudapp.net

Make an account (Use our keys if you are lazy)

Key: ec552e65e51f5ba1192ca326805d4bae

Secret: 55cb97c71a57b41b

Attach at least one Flickr (Yahoo) account by clicking top right corner from file system page.