

# Last Time

- Streamed from a webcam using “motion” to an SSL secured webpage using “Pagekite”
- Made temp directory with the .jpg images “/tmp/motion” globally accessible (and indexed) to create a database/archives of past footage
- Added passwords to the stream/database as another layer of security
- Configured Pagekite to run in daemon mode

# A Central Access Point

- Had to manually enter each URL to access stream/database for a single stream, impractical for multiple streams
- PageKite can only make either a port or folder globally accessible, need another web server
- Link to streams from a central web page, installed the following:
  - Lighttpd as the web server
  - PHP for writing a script to link to individual PageKite pages

# “index.php”

```
<?php
  print <<< EOT
<!doctype html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>USB Security Camera System</title>
</head>
<body>
<h1>USB Security Camera System</h1>
<p>Each stream is linked below, along with the corresponding archives for
that camera:</p>
<a href="https://stream1-n02469512.pagekite.me">Stream 1</a>
<a href="https://archives1-n02469512.pagekite.me">Stream 1 - Archives</a>
<br>
<p>Stream2 Stream2 - Archives</p>
</body>
</html>
EOT;
?>
```

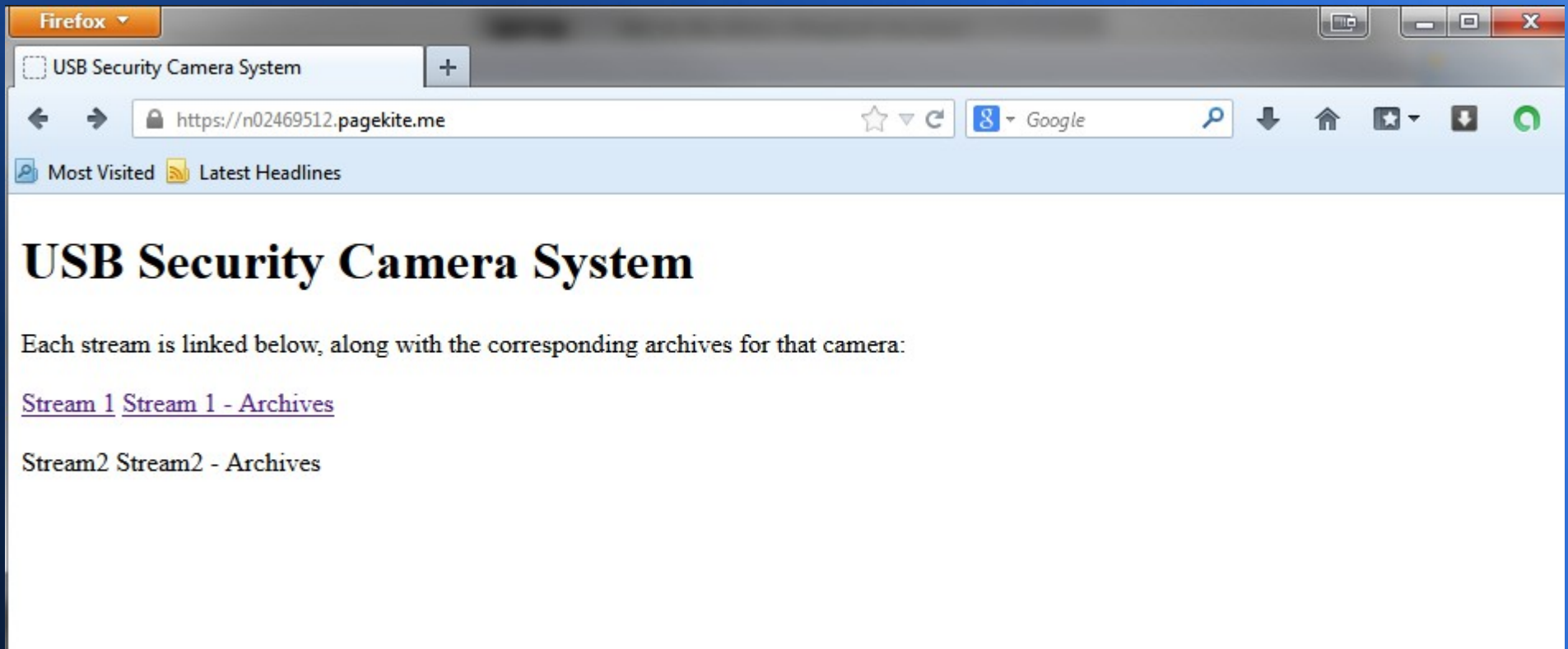
# Running Everything Together

- Three different PageKite pages running:
- Stream (port 8081)
- Database (/tmp/motion)
- Central access point (lighttpd server on port 80)

```
pi@raspberrypi ~ $ pagekite 8081 stream1-n02469512.pagekite.me +password/admin=admin AND /tmp/motion archives1-n02469512.pagekite.me +indexes +password/admin=admin AND 80 n02469512.pagekite.me

>>> Hello! This is pagekite v0.5.6d. [CTRL+C = Stop]
Connecting to front-end 50.116.52.206:443 ...
- Protocols: http http2 http3 https websocket irc finger httpfinger raw
- Protocols: minecraft
- Ports: 79 80 443 843 2222 3000 4545 5222 5223 5269 5670 6667 8000 8080
- Ports: 8081 9292 25565
- Raw ports: 22 virtual
Quota: You have 2169.20 MB, 29 days and 4 connections left.
~<> Flying builtin HTTPD as https://archives1-n02469512.pagekite.me/
- https://archives1-n02469512.pagekite.me/
~<> Flying localhost:8081 as https://stream1-n02469512.pagekite.me/
~<> Flying localhost:80 as https://n02469512.pagekite.me/
<< pagekite.py [flying] Kites are flying and all is well.
```

# Central Access Point



- Links to both the stream and the archives
- Add additional streams/archives from other camera/pi combinations