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4-4-2017

Real-time Insight : Developing a Internal Library Data Dashboard

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April 4th, 2017

EAST TENNESSEE STATE
U N I V E R S I T Y

ER&L
Electronic Resources and Libraries

Library Data Dashboards

- Feasible
- Visibility
- Time Savings

Better manage your environment

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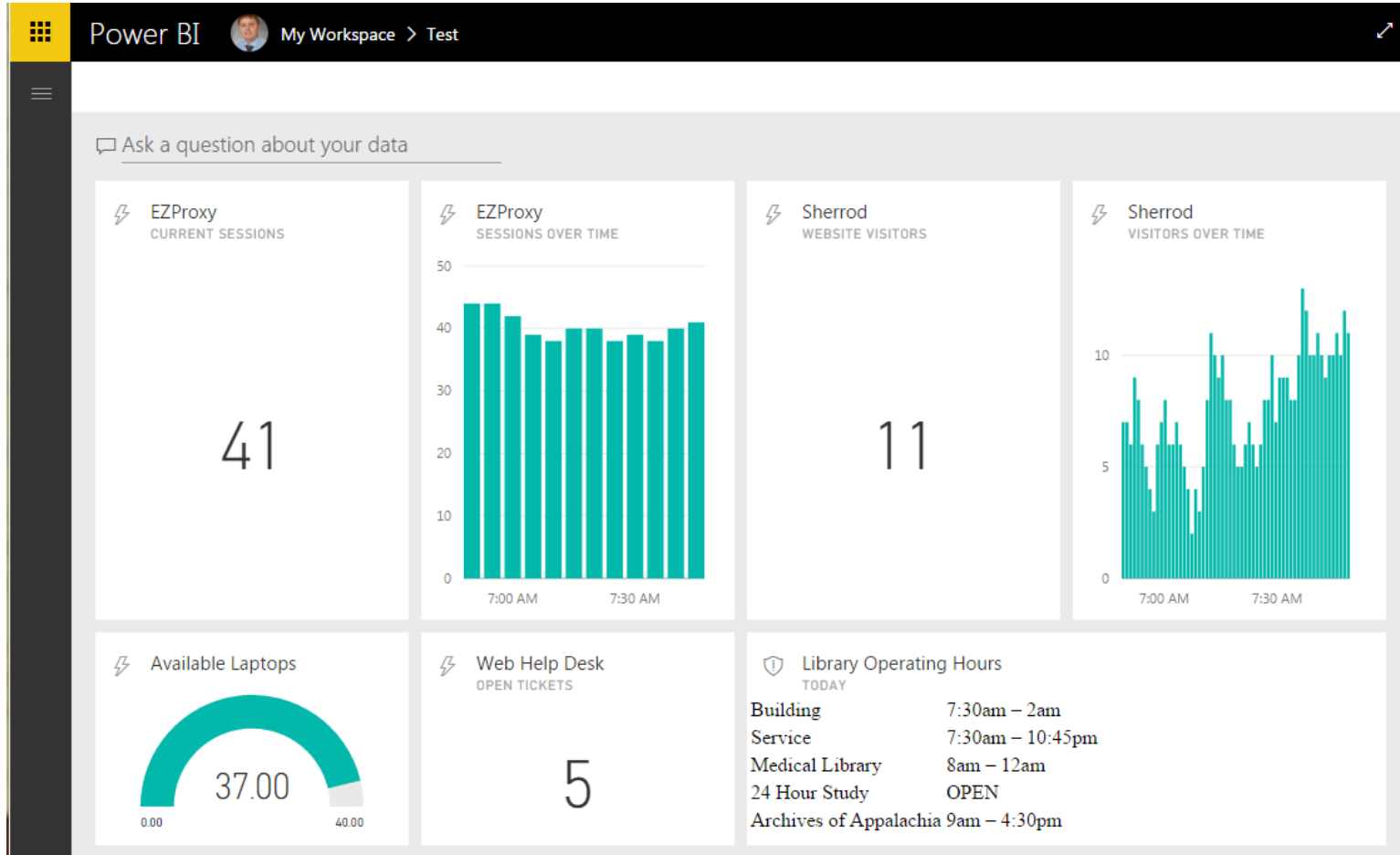
Dashboard Platforms

Competitors:

- Tableau
- GeckoBoard
- Microsoft Power BI
- Notion
- Many more…

Features:

- Pricing
- Limitations
- Mobile App
- Public View

Pros:

- Discovered in Office 365
- Free and paid version available ($10/month)
- Unlimited Dashboards
- Easy to use

Cons:

- Public Sharing

Microsoft Power BI

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Power BI - Streaming Datasets

1) Create Dataset

- Name

- Values

New streaming dataset

Create a streaming dataset and integrate our API into your device or application to send data. Learn more about the API.

Dataset name *

What do you want to name your dataset?

Values from stream *

Enter a new value name | Text ▾

Historic data analysis

Off

Power BI - Streaming Datasets

Streaming dataset created

The schema for Test is created.

Push URL

```
https://api.powerbi.com/beta/91234-56789-123456-1044-baec43c3d741/dat
```

Raw   cURL   PowerShell

```
curl --include \
--request POST \
--header "Content-Type: application/json" \
--data-binary "[
  {
    \"Test\" : 98.6
  }
]" \
"https://api.powerbi.com/beta/123456789-1234-4349-bad3-b
aec43c3d741/datasets/d64b3f1b-9d56-4956-40rf-dgdgdfgfdge
e455/rows?key=VzantTZ8opP3cox72%kjljl%ifdsoi%2Blo3TDCGqI
3onTQQpKrHaVErkElA4wxT3Ybg%3D%3D"
```

2) Integrate your code

- cURL or PowerShell

3) Run Script
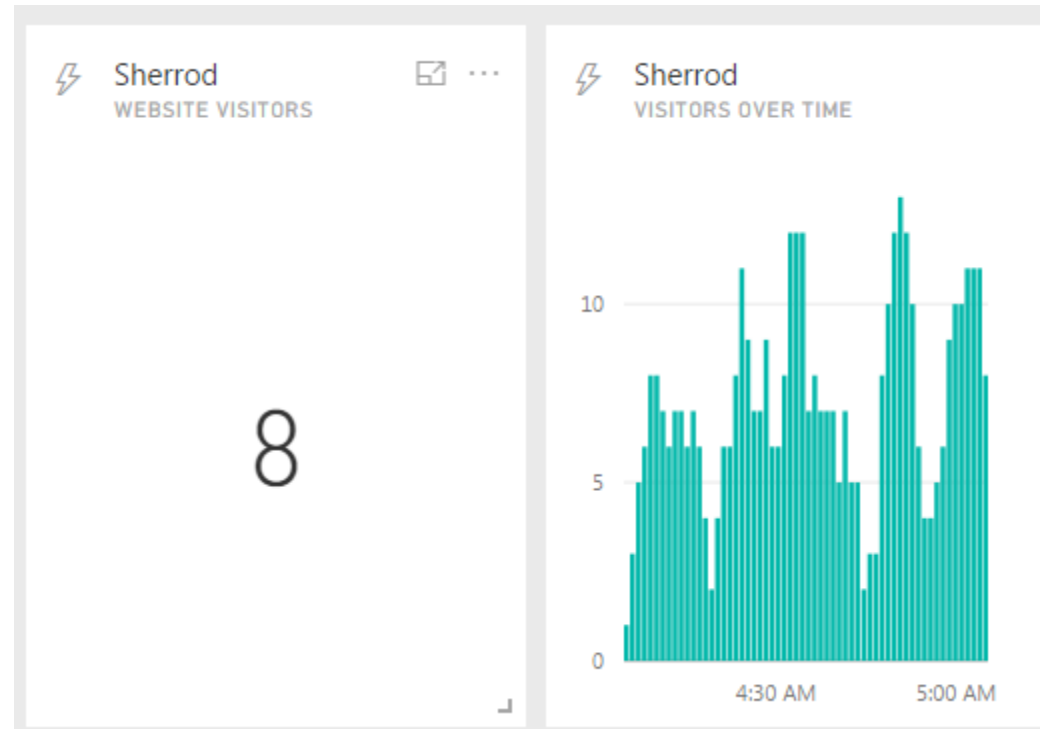
- Automate script with CronTab or other solution

Library Website

Power BI Tiles

- Real-time visitors
- Visitors over time
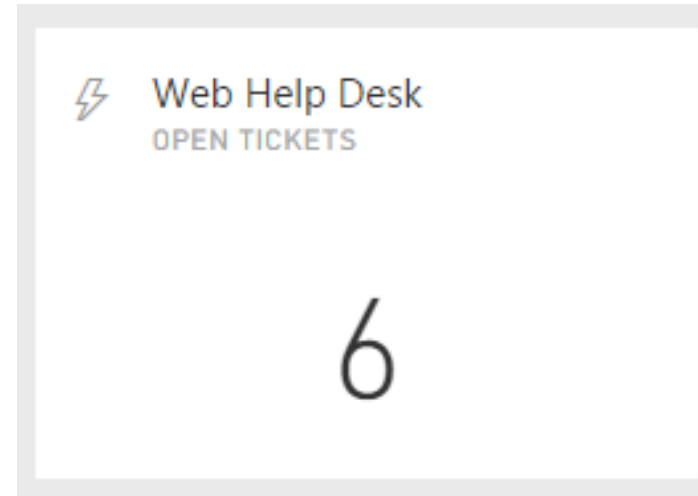
Mechanism

- Custom server script
- Reports every minute

Help Desk

Power BI Tiles

- Open Tickets

Mechanism
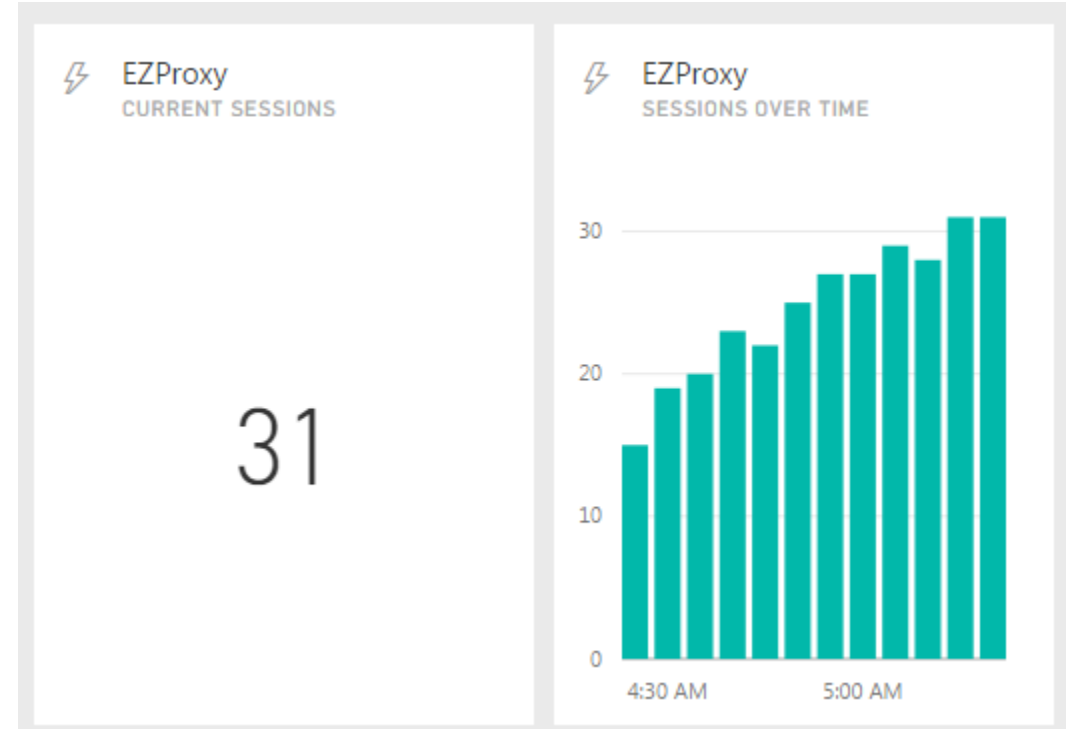
- WebHelpDesk API
- Every 5 Minutes

EZProxy

Power BI Tiles

- Current Sessions
- Sessions over time

Mechanism

- Custom server script
- Reads audit file
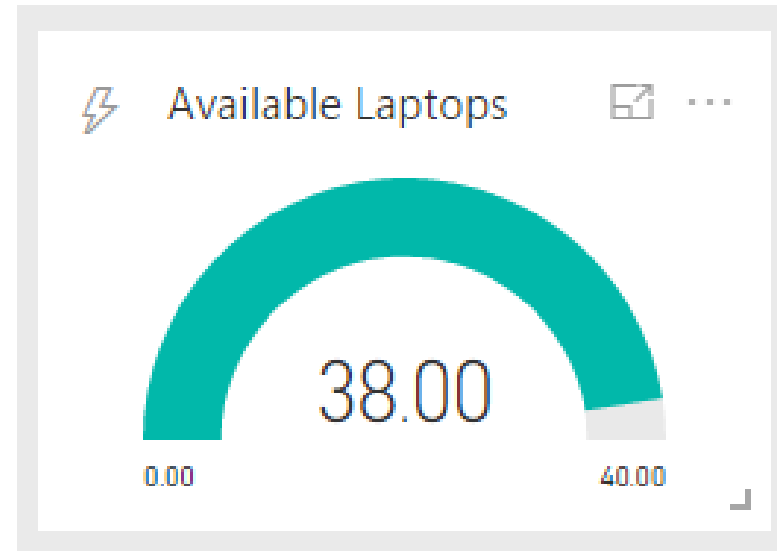- Looks for login/logout events
- Reports every 5 minutes

Laptop Checkout

Power BI Tiles

- Available Laptops

Mechanism

- ExLibris Alma API
- Every 5 Minutes

Primo

Power BI Tiles

- Daily Visitors

- Number of Searches

Mechanism

- Google Analytics API (work in progress)

Daily Visitors

333

% of Total: **100.00% (333)**

Total Unique Searches

843

% of Total: **100.00% (843)**

Google Analytics

Future Dashboard Goals

COUNTER Stats

- JR1, BR1, BR2, DB1
- ExLibris Alma Analytics API

EZProxy

- Further Analysis of Logs

LibGuides

- Available Rooms

Computer Availability

- Available Computers

Office Integration

PowerBI + iPad + Mophie Powerstand

Thank You!

Questions?

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