



Data Your Way – Unlocking The IBM Z Black Box

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Digital Transformation: The Perfect Storm Of Computing



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+



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The Mainframe's Vital Role In The Digital Economy

Mainframes process

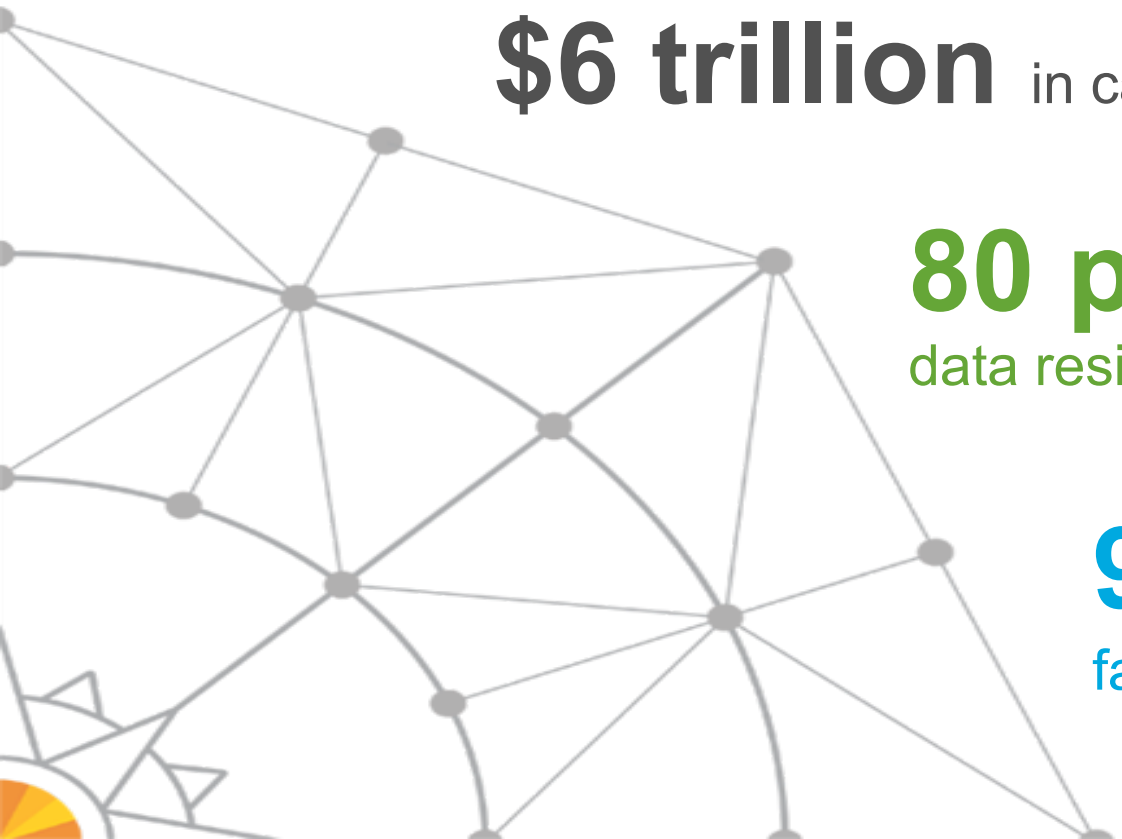
30 billion business transactions per day

Mainframes enable

\$6 trillion in card payments annually

80 percent of the world's corporate data resides or originates on mainframes

91 percent of CIOs said new customer-facing apps are accessing the mainframe



z Systems Software Strategy For Digital Economy

- ▶ Driving ***DevOps approach*** to application development, delivery and management
- ▶ Leveraging ***APIs as common language*** in a hybrid world
- ▶ ***Modernizing applications*** with Java
- ▶ Managing complex hybrid environments with “***Cognitive Systems Management***”



IT Operations Analytics Leads To Operational Excellence

1. Cost: Unlock your investments

- *Improve efficiency and reduce costs*

IT Operations Analytics can help you reduce your operational expense and run your Z data center more efficiently

2. Risk: Reduce blind spots

- *Proactively avoid outages and reduce blind spots*

Proactively identify issues before they happen and significantly improve mean time to resolution

3. Agility: Faster for experts, easier for beginners

- *Faster and easier time to market*

Solve problems faster using the tooling or your choice to aid experienced operators a new starters

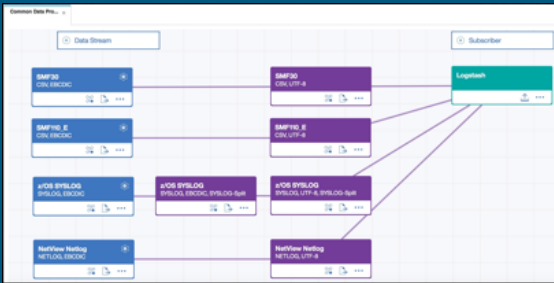
A recent survey of Z clients showed **cost reduction** and **outage prevention** as the top 2 factors where they want to focus operational efforts



IT Analytics Help You Derive Real Value From IT Data

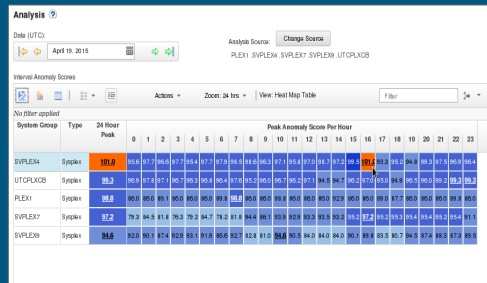
Helping you address pain points including **cost, risk and skills & agility...**

A single source for all operational data streamed to the analytics platform of choice - IBM or 3rd party



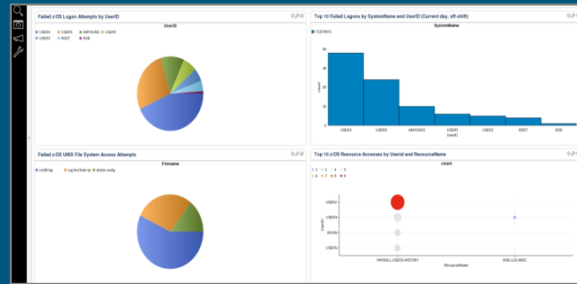
Manage the growing complexity of data requests

Detect anomalies before they happen



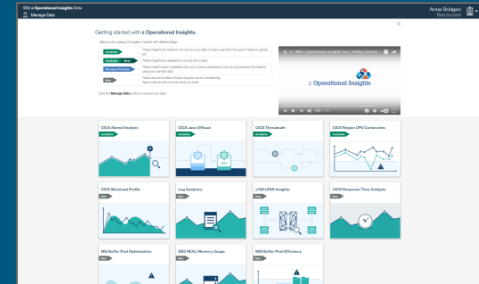
Predict issues instead of waiting for failure

Speed resolution for day-to-day ops issues



Analyze and intelligently search ops data

Optimize for cost and performance



Analyze operations data and see recommended cost saving actions

Your IBM Z data...



Your choice of analytics platforms...

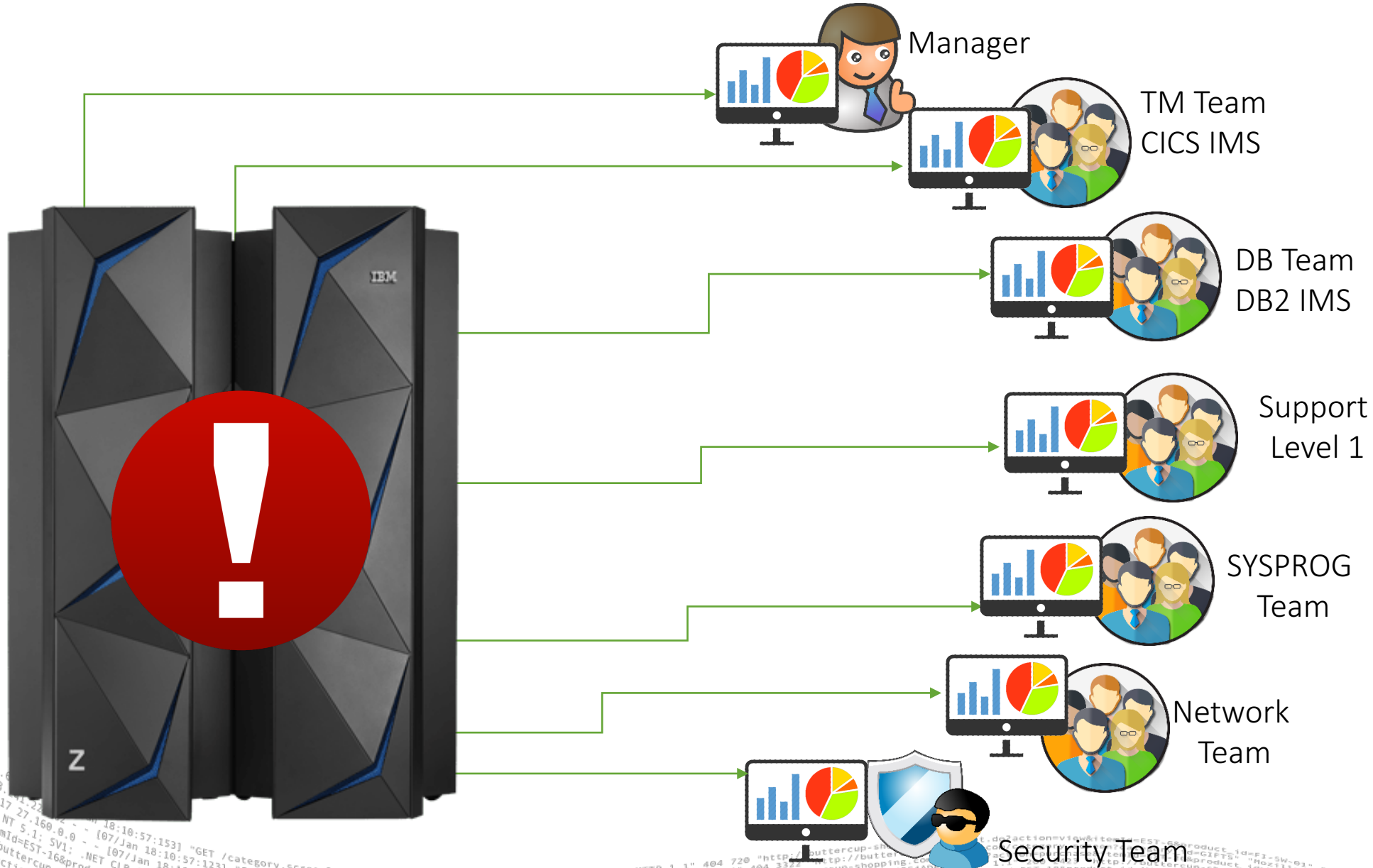


With our expert insights

... all with embedded expertise and recommended next actions



You Want To Work As A Team To Resolve An Issue ?

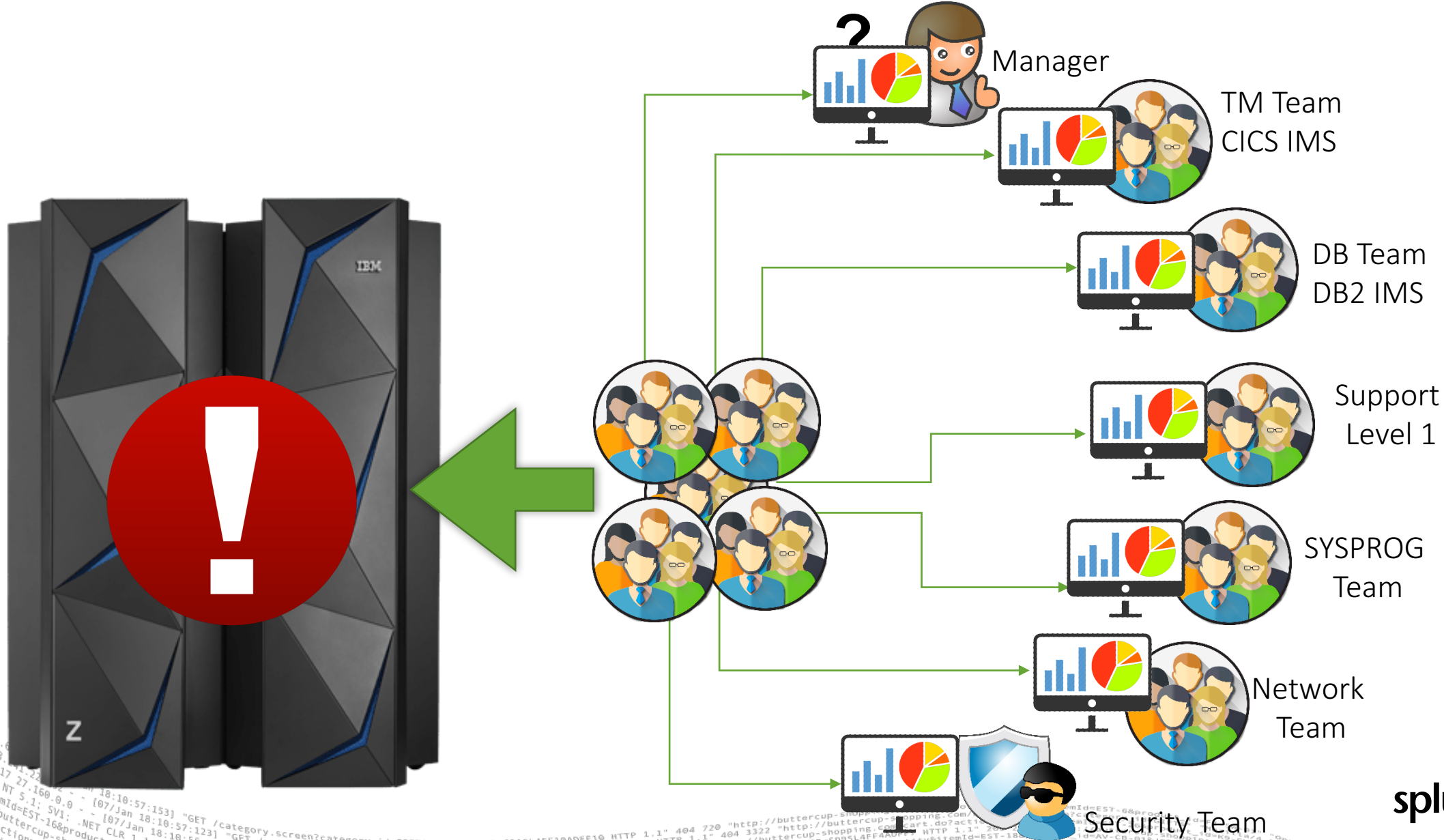


November						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

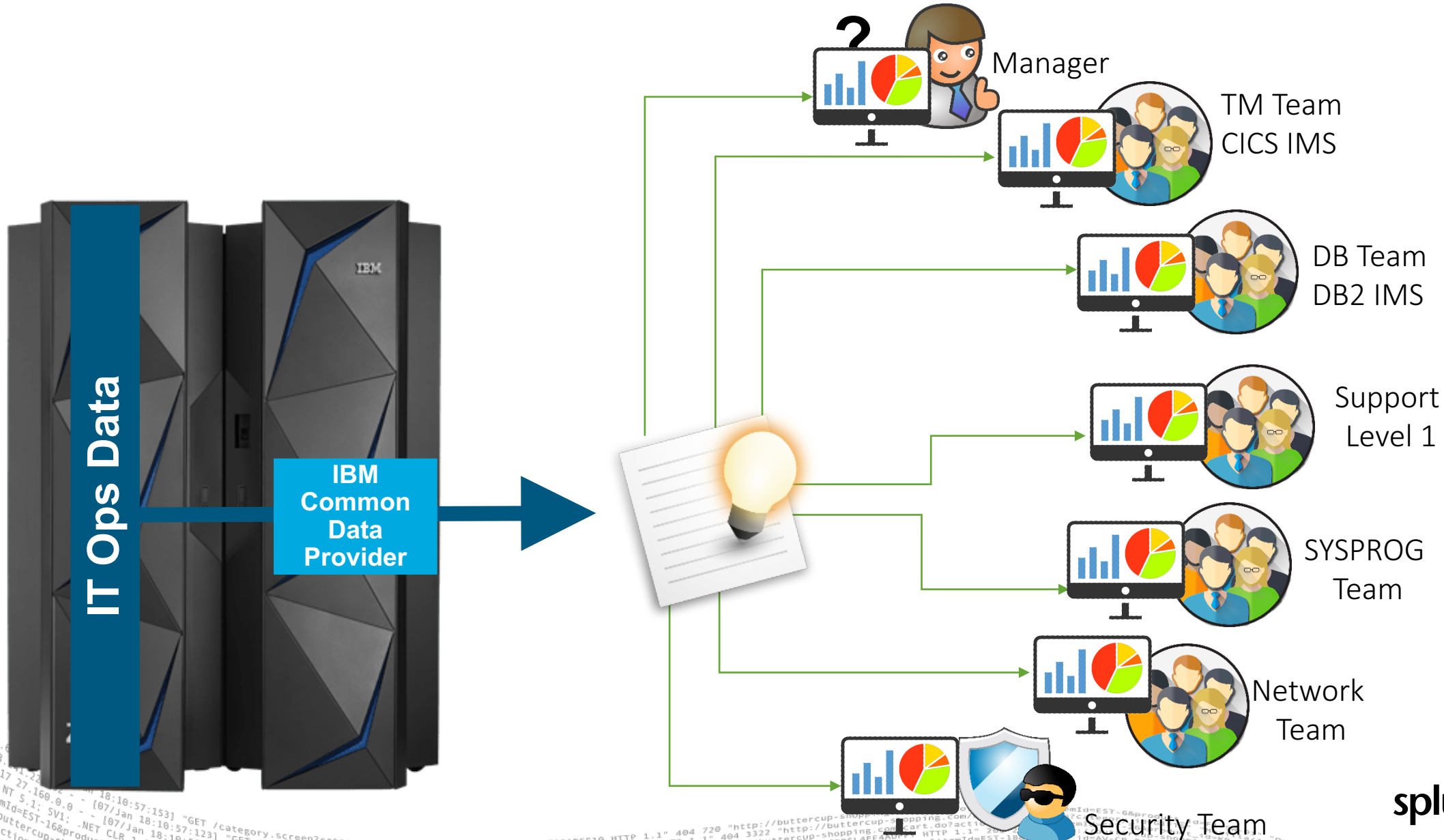
Holidays and Observances: 1: All Saints' Day



You Want To Work As A Team To Resolve An Issue



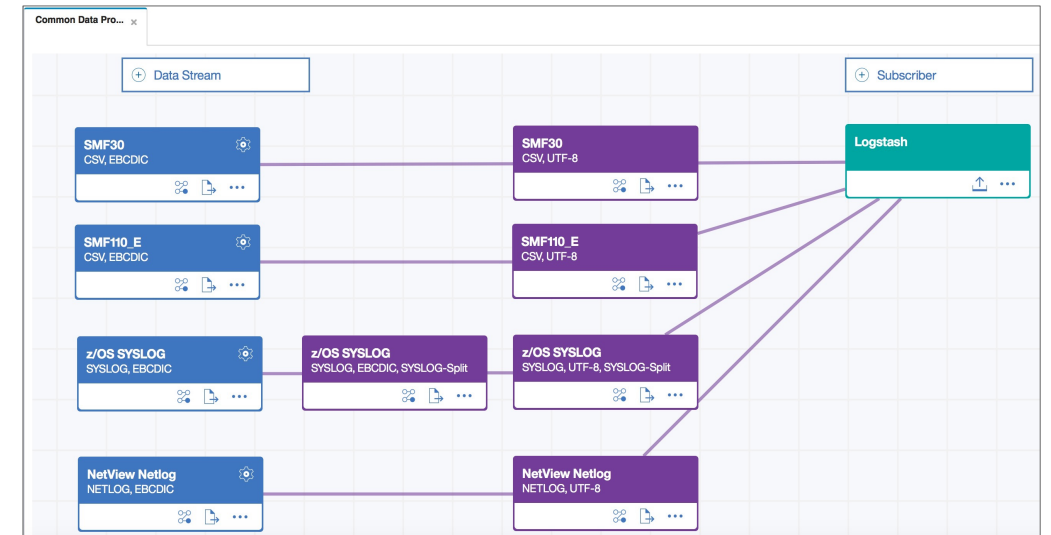
You Want To Work As A Team To Resolve An Issue



IBM Common Data Provider For Z Systems

A single source for all operational data streamed to the analytics platform of choice

- ▶ CDP provides consumable, near real time operational data
- ▶ Built to improve the ability to manage the growing complexity of data requests
- ▶ Provides data feed into enterprise analytics solutions such as Splunk
- ▶ Tivoli Decision Support for z/OS customers can write their SMF data directly to IDAA



- ▶ **Reduce Risk to Your Business:**

Detect threats with your Security products using live streaming data

- ▶ **Optimize Costs and Efficiencies:**

Feed all IT Operations data to analytical engines from a single product

- ▶ **Prevent Impact to Your Operation:**

Proactive Analysis of data in near Real Time as an early warning

- ▶ Simple to install, configure and use

- ▶ Multiple data sources

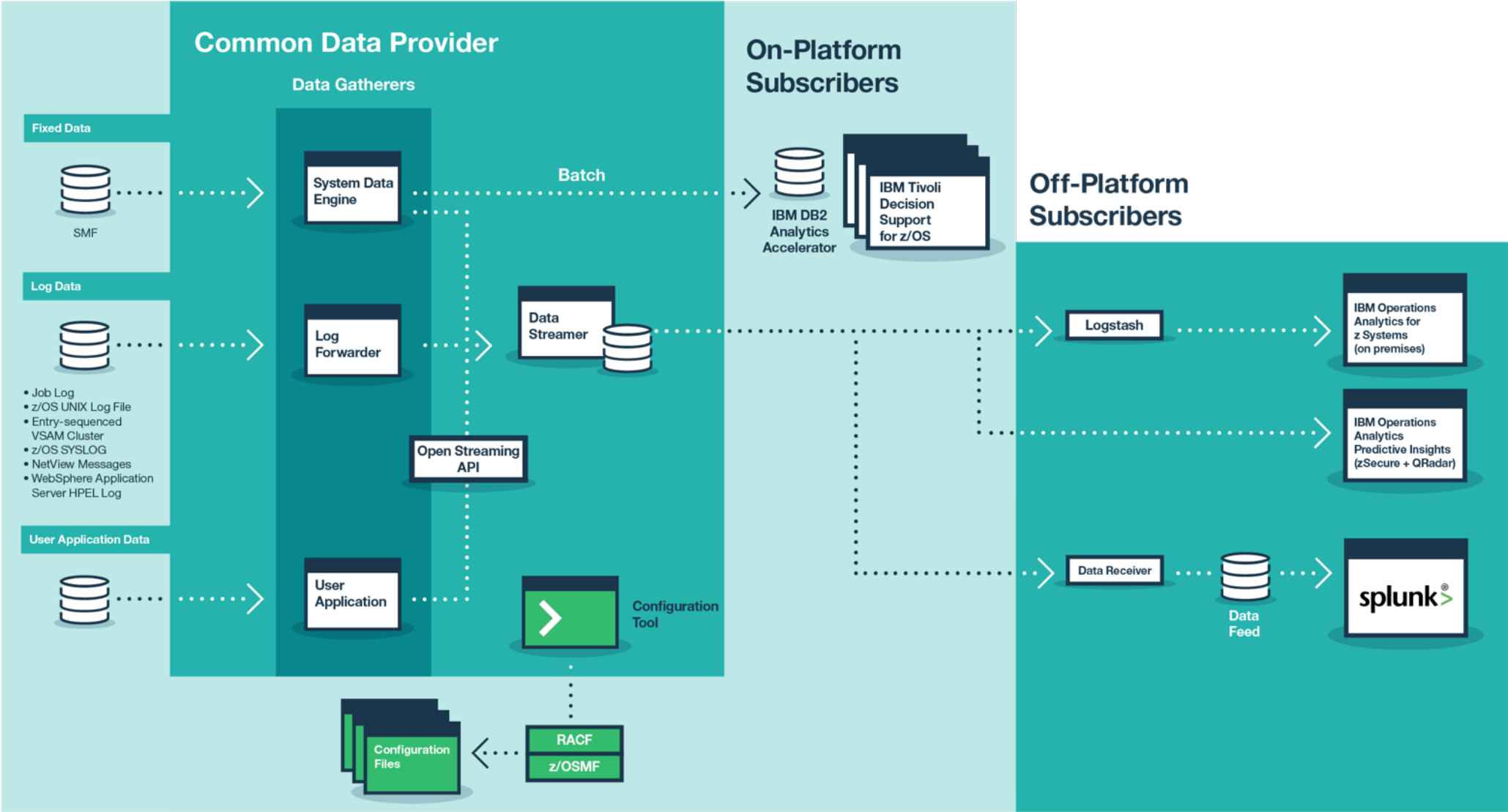
- ▶ Flexible output options

- ▶ Write to any destination

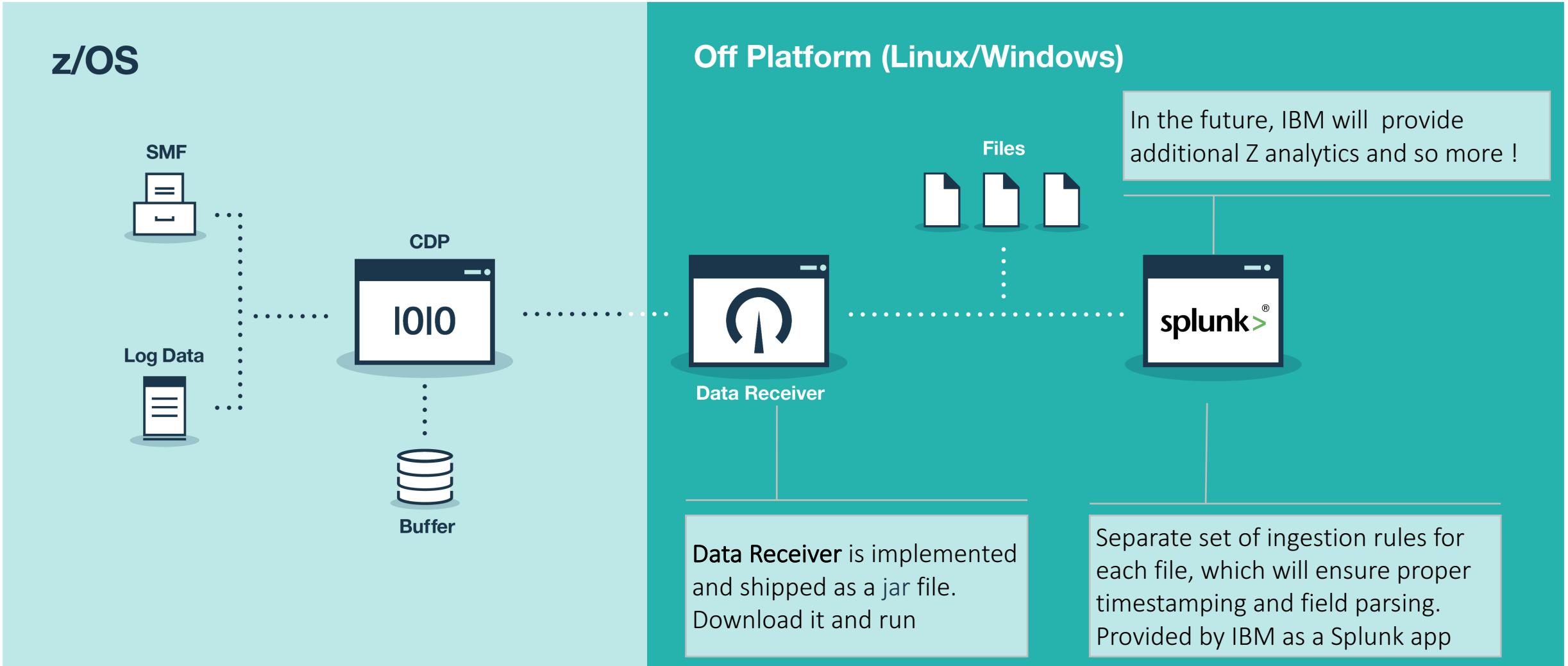
- ▶ Streaming SMF and log data

- ▶ Built in filtering to control data volumes

Data Your Way – IBM Common Data Provider For Z Systems



IBM Cdpz And Splunk - An End To End Solution And More!



IBM Design Thinking For CDP z

Based on IBM Design Thinking, IBM CDPz leverages z/OSMF to provide users a simple to use graphical interface to select, filter, and send data to the required target(s)



Just select the z Systems SMF or Log data you need

Add your data filters, add your target(s) and go...

- SMF Data

- Base Streams
 - + z/OS
 - + JES
 - + SMF
 - + RMF
 - + Address Space
 - + Device
 - + SMS
 - + Catalog
 - + VSAM
 - + Data Set
 - + TSO

+ Security

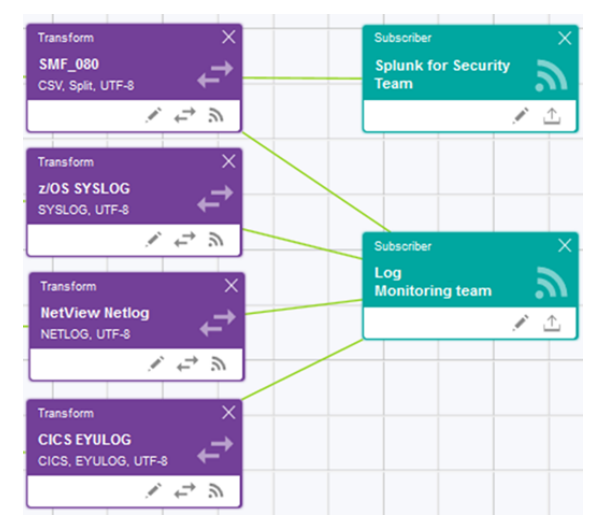
- + DB2
- CICS

Name	Tags
<input type="checkbox"/> SMF_110_0	CSV,Split
<input type="checkbox"/> SMF_110_1	CSV,Split
<input type="checkbox"/> SMF_110_1_FIELD	CSV,Split
<input type="checkbox"/> SMF_110_1_DICT	CSV,Split
<input type="checkbox"/> SMF_110_1_6	CSV,Split
<input type="checkbox"/> SMF_110_E	CSV,Split
<input type="checkbox"/> SMF_110_1_5	CSV,Split
<input type="checkbox"/> SMF_110_2	CSV,Split
<input type="checkbox"/> SMF_110_3	CSV,Split
<input type="checkbox"/> SMF_110_4	CSV,Split
<input type="checkbox"/> SMF_110_5	CSV,Split

Transcribe selected streams to UTF-8

Selected Data Streams:

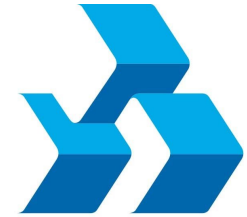
- Data Stream SMF_080 (CSV, Split)
- Data Stream z/OS SYSLOG (SYSLOG)
- Data Stream NetView Netlog (NETLOG)
- Data Stream CICS EYULOG (CICS, EYULOG)



Using Operations Analytics Solutions From IBM

Client Challenge

Limited real time visibility of potential issues across the enterprise was causing extended problem determination times and not allowing business to be proactive in problem resolution. **Drops in service levels loses Banrisul customers, and incur fines from regulators.**



Banrisul

Client Solution

- ▶ IOAz showing dashboards with error messages in last 15 minutes, SMF 30 Dashboard (out-of-the-box) shows maxed capped resources
- ▶ Show graphed dashboard for SYSA, SYSB, and SYSD during the same time-period with SYSD Programs plotted
- ▶ Dashboards to demonstrate z/OS Abends, B37 errors, CICS & DB2 Resource Unavailable items of interest

"Useful for SYSLOG analysis to understand numerous system wide error messages!!"

"Out of the box analysis to quickly determine root cause of system lock up that required an IPL Outage!!"

Find out More:

<http://ibm.biz/IOAzCaseStudy>

Client Benefit:

- ▶ Near immediate identification of problems before they impact service delivery
- ▶ Increase in customer satisfaction levels and meeting regulatory requirements
- ▶ More "free time" to work on environment improvements that improve overall stability

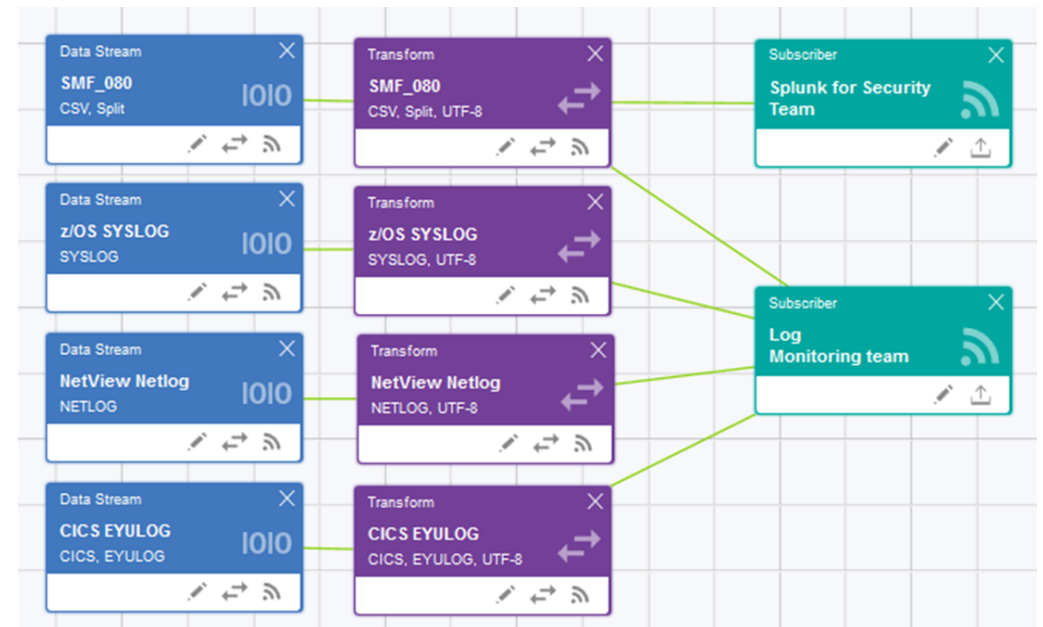
Data Your Way: A Large European Retail Company

Customer background and needs:

- ▶ **Splunk** is already used in the Enterprise for Network, Device and Open Systems Security
- ▶ Need to **integrate mainframe** security data into Splunk for Enterprise security team
- ▶ Mainframe monitoring team plan to use data for **IT Operational monitoring**

IBM Common Data Provider for z System is the solution being able to read the data once and send to different targets

Different filtering/transformation options can be applied to the data before sending the same data to different targets.



Enabling DevOps: A US Health Insurance Company

Customer background and needs:

- ▶ **Splunk** is currently used by the development team to analyze an application's distributed logs
- ▶ The application leverages **z Systems CICS** and the development team needs to integrate the mainframe CICS application logs into Splunk
- ▶ New feature testing is performed during specific time windows

IBM Common Data Provider for z System is the solution to:

- ▶ Gather CICS log data during the requested testing windows
- ▶ Filter CICS log data based on the content specific to the application and send only the required data to Splunk enabling a single pane of glass view
- ▶ This configuration can later be used by **IT Operations**

Transform Type	Description
<input type="radio"/> TRANSCRIBE	Transcribe the data to a different encoding
<input type="radio"/> CRLF Splitter	Split the data into multiple messages based on CRLF characters
<input type="radio"/> CICS MSGUSR MDY Splitter	Split CICS MSGUSR data in MDY format into individual messages
<input type="radio"/> FixedLength Splitter	Split records with a fixed record length into multiple messages
<input checked="" type="radio"/> Regex Filter	Filter messages from incoming streams based on a regex pattern
<input type="radio"/> Time Filter	Only allow packets sent within a particular schedule, and discard all others

Schedules

Schedule:

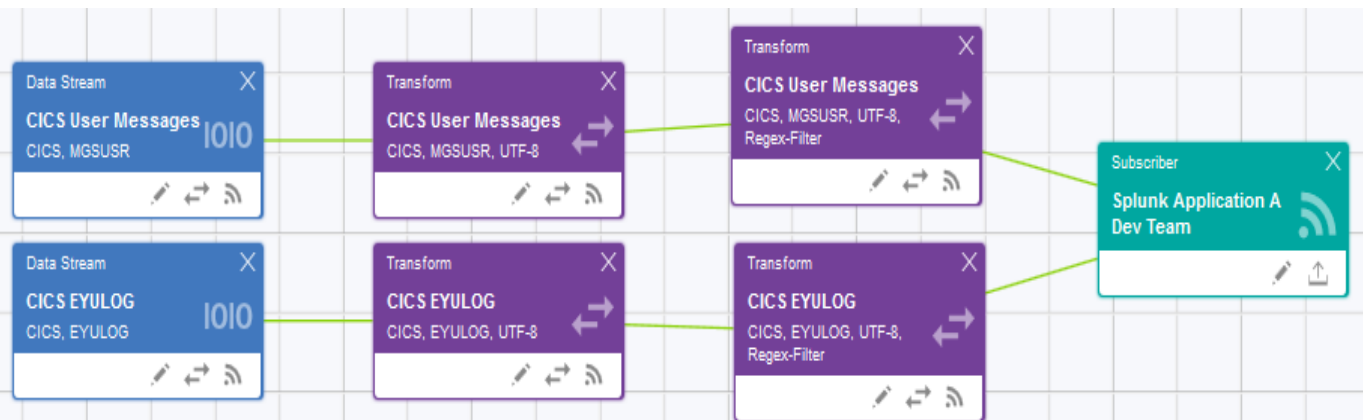
Edit name:

From to

00:00 10:00 12:00 23:59

From to

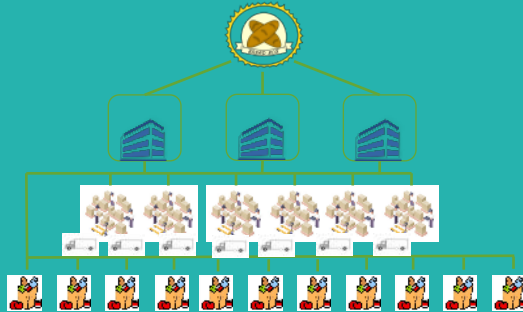
00:00 14:00 18:00 23:59



Art Of The Possible: The Bread Box Company



- ▶ Family run retail business
- ▶ Started by 2 brothers in Ohio, United States
- ▶ Rapid Growth via commitment to clients and Innovation in IT



- ▶ Enterprise operations - 50 states
- ▶ 3 data centers in the US
- ▶ 500 distribution centers
- ▶ 45000 trailers & 4000 drivers
- ▶ 12000 stores
- ▶ Growth through acquisitions



- ▶ Global footprint.
- ▶ Optimize and Innovate in IT
- ▶ New Services Online fast to reach new clients
- ▶ Leverage Social & mobile for better client engagement
- ▶ Maintain Industry Leadership

50 years ago

Today

Where they want to be

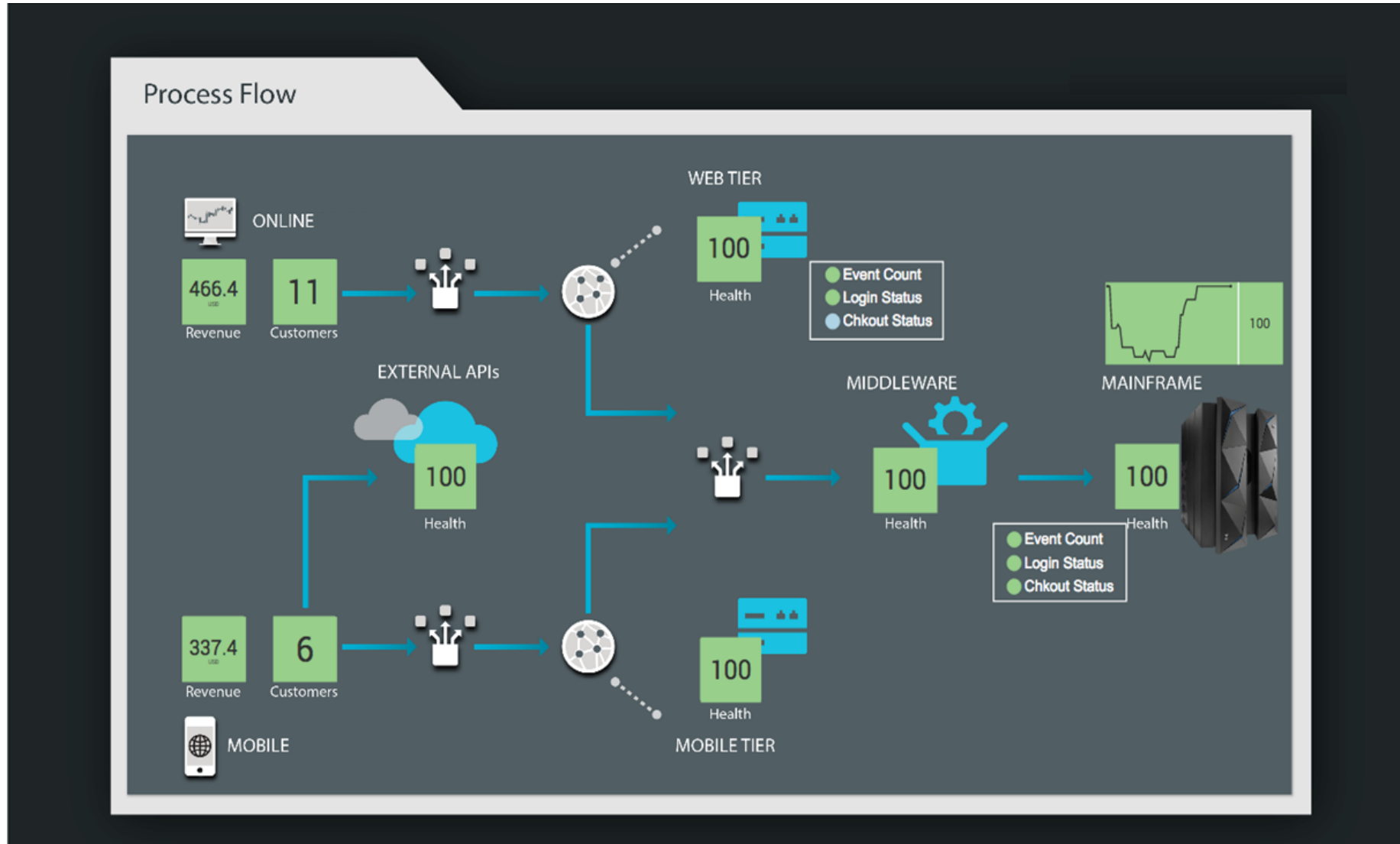
```

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1"
317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1"
10.55.187.1 - - [07/Jan 18:10:55:187] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1"
10.55.189] "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 385 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1"
  
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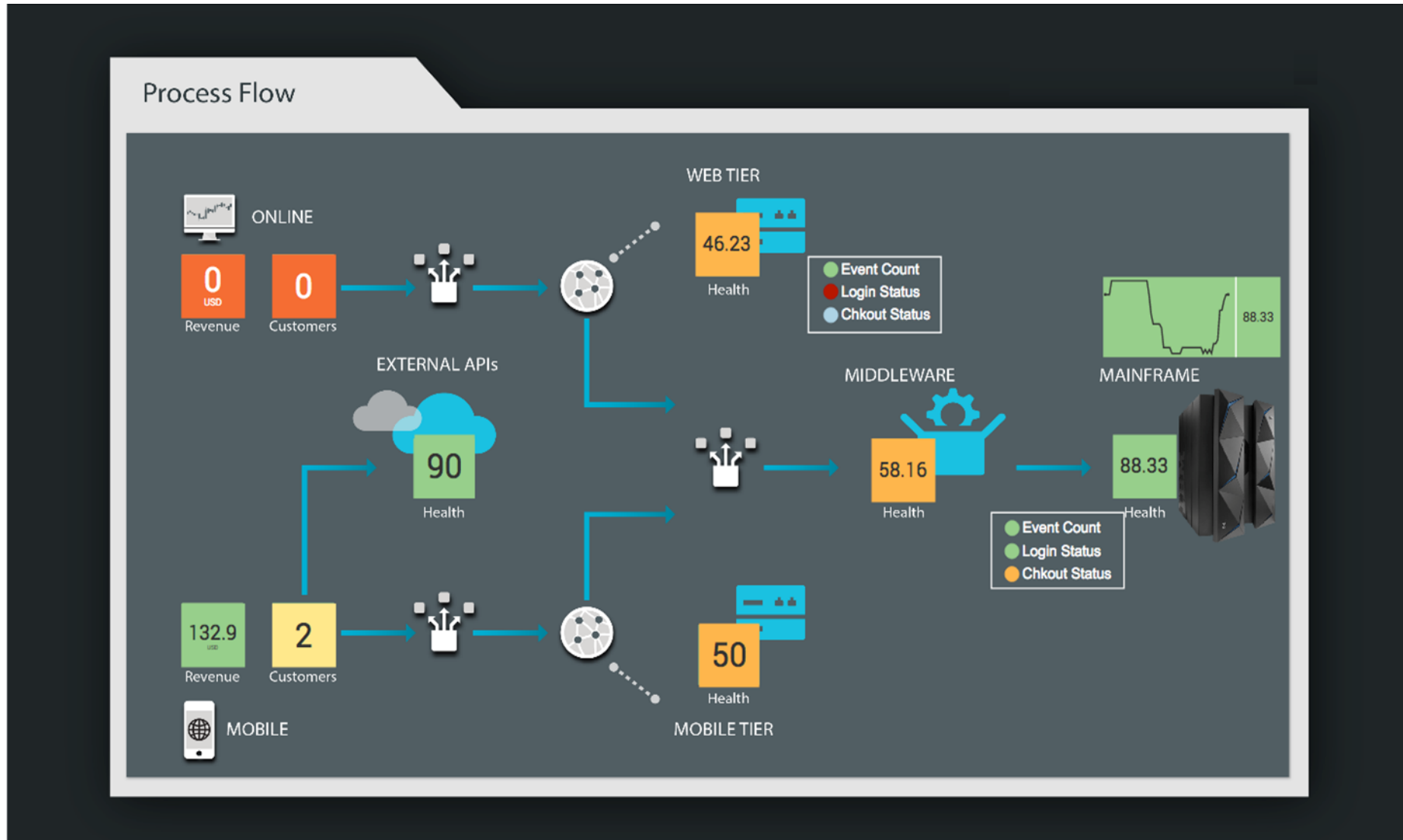
Art Of The Possible: Bread Box Virtual Shopping



Art Of The Possible: Bread Box Virtual Shopping

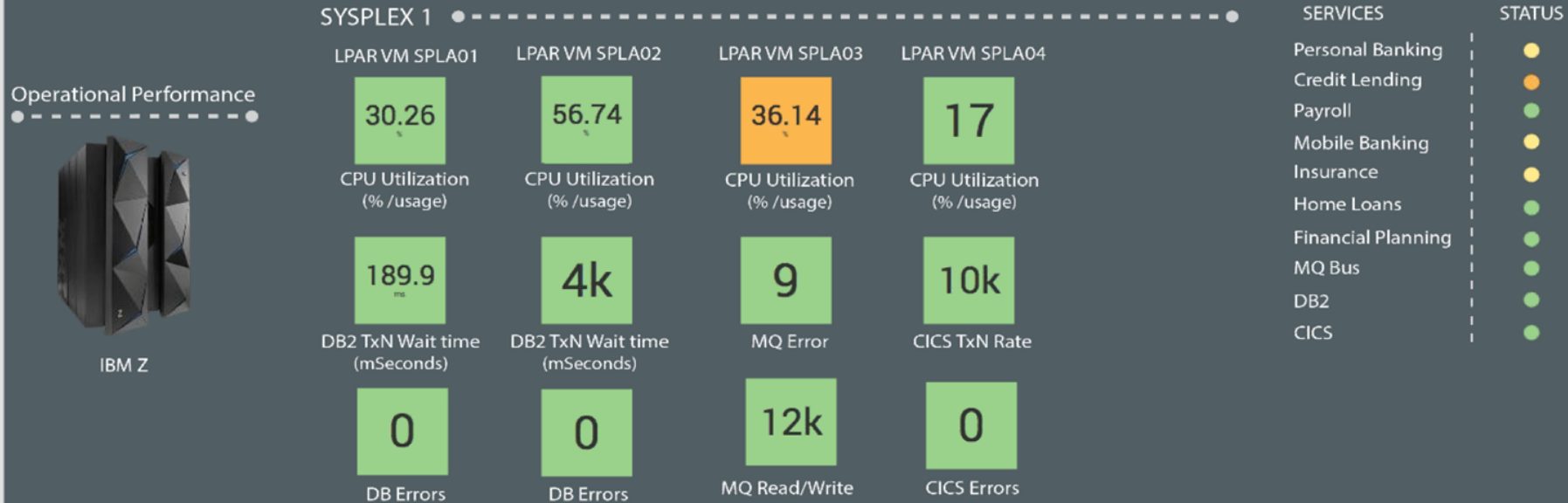


Art Of The Possible: Bread Box Virtual Shopping

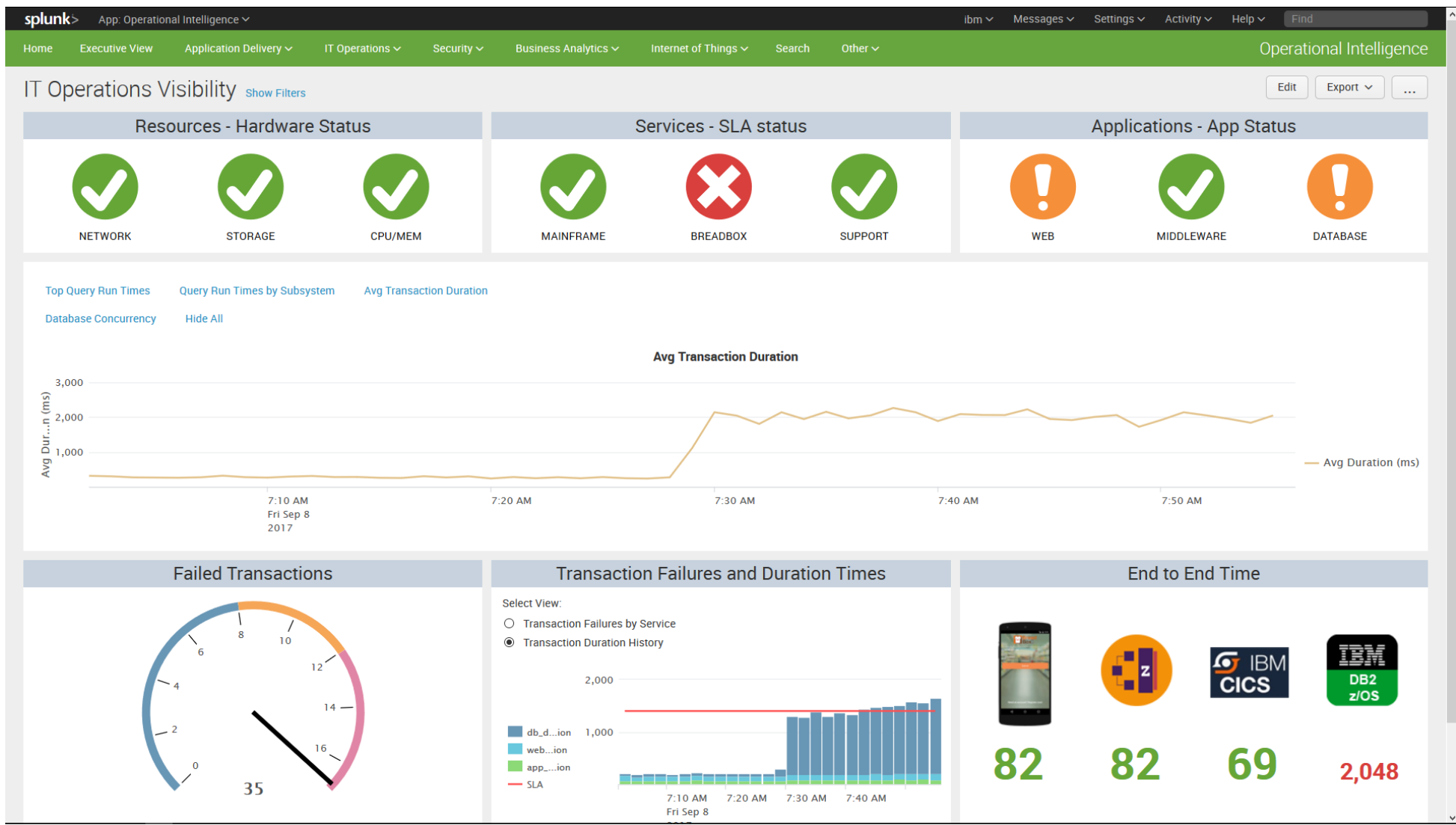


Art Of The Possible: Bread Box Virtual Shopping

Process Flow



Art Of The Possible: Bread Box Virtual Shopping



```

130.60.4 - - [07/Jun 18:10:57:123] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03"
128.241.220.82 - - [07/Jun 18:10:57:123] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADFF10 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268product_id=KQ-CP-00"
ows NT 5.1; SV1: .NET CLR 1.1.4322) "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF6ADF0 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-03&JSESSIONID=5D15LAF10ADFF10"
: //buttercup-16&product_id=RP-LI-02" 468 125.17 14 "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-6&product_id=F1-SW-03"
o?action=purchase&itemId=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-6&product_id=F1-SW-03"
: //buttercup-16&product_id=RP-LI-02" 468 125.17 14 "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3885 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-6&product_id=F1-SW-03"

```


Art Of The Possible: Bread Box Virtual Shopping

splunk > App: Operational Intelligence

Home Executive View Application Delivery IT Operations Security Business Analytics Internet of Things Search Other

IT Operations Visibility

Resources - Hardware Status
 NETWORK ✓ STORAGE ✓ CPU/MEM ✓

Services - SLA status
 MAINFRAME ✓ BREADBOX ✗ SUPPORT ✓

Applications - App Status
 WEB ! MIDDLEWARE ✓ DATABASE !

Top Status Codes Avg Txn Time by Host (ms) Hide All

Top Status Codes

HTTP Status Code	Count	Frequency of Events
OK	2575	
Service Unavailable	2457	
Not Found	697	
Moved Permanently	13	
Use Proxy	12	
Created	11	
No Content	11	

Failed Transactions: 35

Transaction Failures and Duration Times

Select View:
 Transaction Failures by Service
 Transaction Duration History

End to End Time

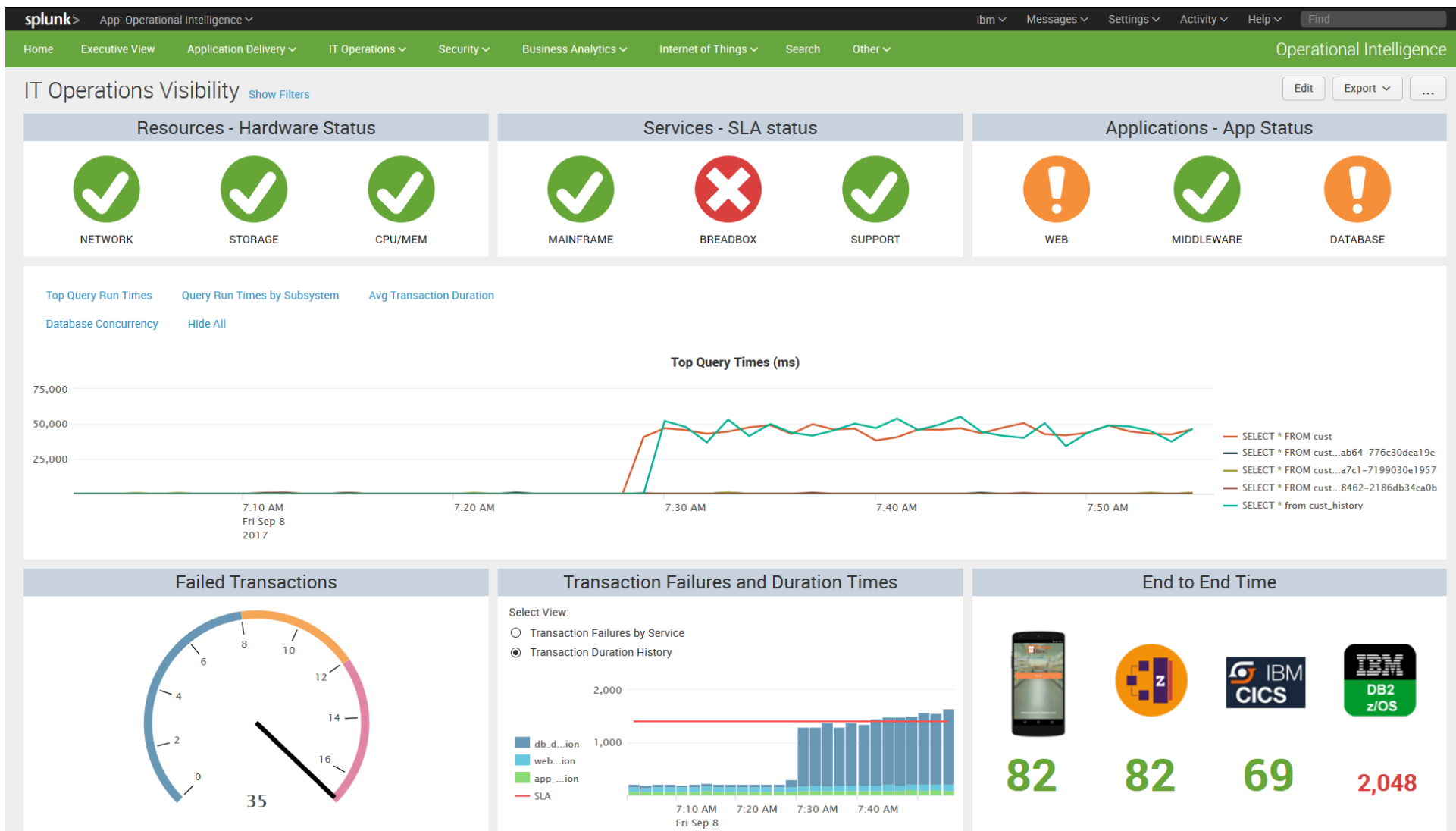
- 82
- 82
- 69
- 2,048

About Support File a Bug Documentation Privacy Policy

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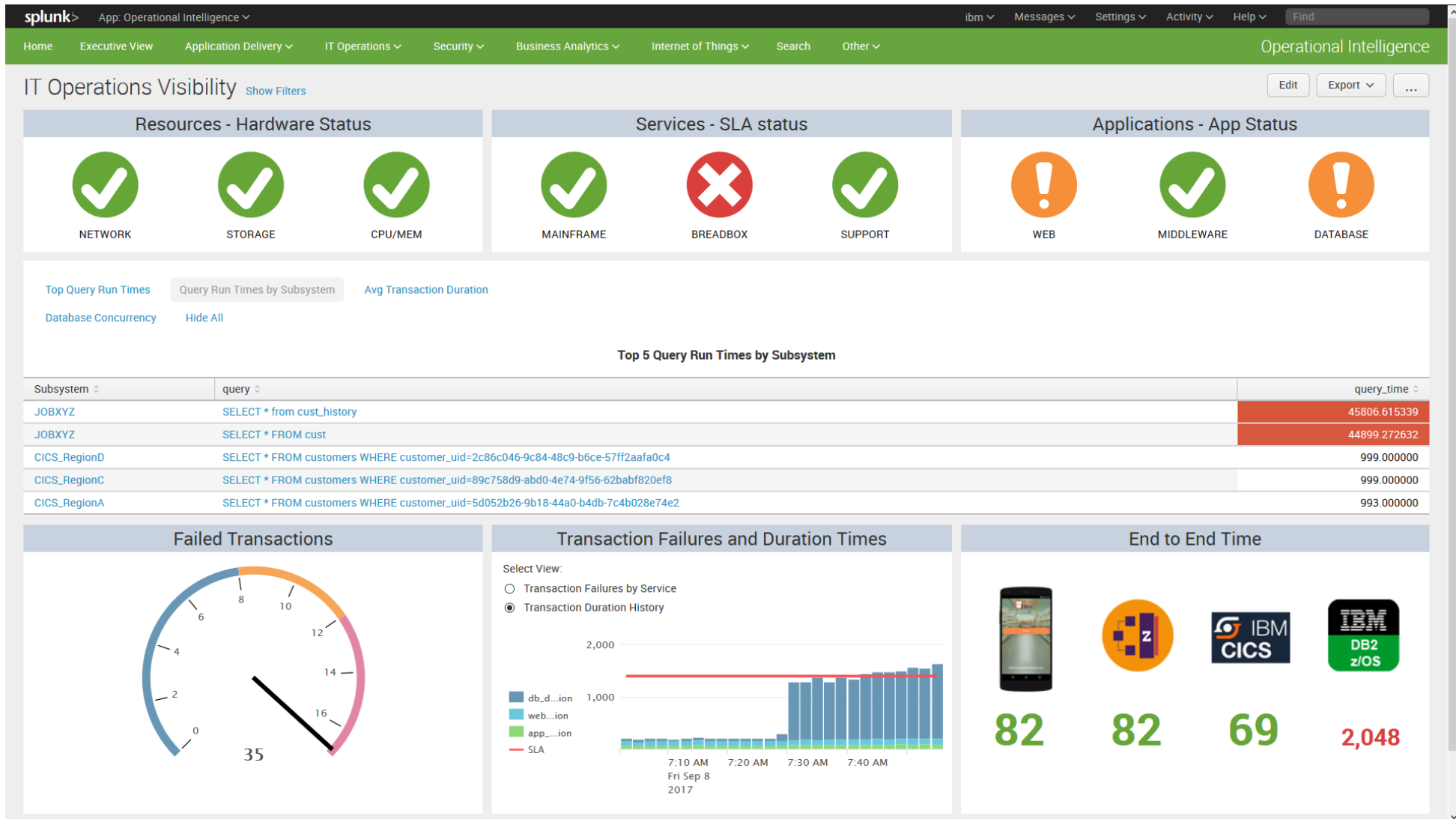
130.60.4... [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03"
 128.241.220.82... [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268product_id=KQ-CU-01"
 10.5.1: SV1: .NET CLR 1.1.4322) "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D15LAF10ADFF10"
 10.5.1: SV1: .NET CLR 1.1.4322) "GET /oldlink?item_id=EST-26&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-189" "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-189" "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-189" "GET /category.screen?category_id=FLOWERS&JSESSIONID=5D5L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-189"

Art Of The Possible: Bread Box Virtual Shopping



130.60.4... [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=F1-SW-03" Moz11.17.0...
128.241.220.82... [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADF9 HTTP 1.1" 404 322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-208product_id=K0-CU-0" Moz11.17.0...
ows NT 5.1; SV1; .NET CLR 1.1.4322" 468 "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-208product_id=K0-CU-0" Moz11.17.0...
do?action=purchase-shopping_id=RP-LI-02" 468 125.17 14... screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-208product_id=K0-CU-0" Moz11.17.0...
do?action=purchase-shopping_id=RP-LI-02" 468 125.17 14... screen?category_id=FLOWERS&JSESSIONID=5D55L9FF1ADF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-208product_id=K0-CU-0" Moz11.17.0...

Art Of The Possible: Bread Box Virtual Shopping



Art Of The Possible: Bread Box Virtual Shopping

Search Query: `cdp_index` sourcetype="zOS-SMF_030" SMF30JBN=JOBXYZ | reverse

Results: 14,457 events (9/8/17 7:02:00.000 AM to 9/8/17 7:56:00.000 AM) Sampling 1 : 10

Event Actions Table:

Type	Field	Value	Actions
Selected	host	TVT7008.breadbox.com	
Selected	source	SMF/SMF_030	
Selected	sourcetype	zOS-SMF_030	
Event	Correlator	CORR10D27D58203536B19C0000007000002	
	SMF30ACB	00000000	
	SMF30AIC	0	
	SMF30AID	0	
	SMF30AIS	0	
	SMF30AIW	0	
	SMF30ARB	241664	

(Rotated text from search results)
 ... [07/Jan 18:10:57:153] "GET /category.screen?category_id=...
 ... [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&SESSIONID=...
 ... [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&SESSIONID=...
 ... [07/Jan 18:10:55:187] "GET /cart.do?action=changequantity&item_id=...
 ... [07/Jan 18:10:55:198] "GET /category.screen?category_id=FLOWERS&SESSIONID=...

Art Of The Possible: Bread Box Virtual Shopping

The dashboard displays the following components:

- Resources - Hardware Status:** NETWORK, STORAGE, CPU/MEM (all green checkmarks).
- Services - SLA status:** MAINFRAME, BREADBOX, SUPPORT (all green checkmarks).
- Applications - App Status:** WEB, MIDDLEWARE, DATABASE (all green checkmarks).
- Failed Transactions:** A gauge chart showing a value near 0 on a scale from 0 to 16.
- Transaction Failures and Duration Times:** A bar chart showing duration history for db_duration, web_duration, and app_duration against an SLA line. The x-axis shows time from 8:00 AM to 8:20 AM on Fri Sep 8, 2017.
- End to End Time:** A summary card showing a total time of 295 ms, which is -780 compared to a 30 min ago baseline. It includes logos for z, IBM CICS, and IBM DB2 z/OS.

130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15LAF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-SW-03"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D35L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268&product_id=KQ-CU-01"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"
10.317.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-268&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3"

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Questions....



130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-5W-01"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268&product_id=KQ-CW-01"
137.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-18&product_id=AV-CB-01"
130.60.4 - - [07/Jan 18:10:57:153] "GET /category.screen?category_id=GIFTS&JSESSIONID=5D15L9FF10ADFF10 HTTP 1.1" 404 720 "http://buttercup-shopping.com/cart.do?action=view&itemId=EST-6&product_id=FI-5W-01"
128.241.220.82 - - [07/Jan 18:10:57:123] "GET /product.screen?product_id=FL-DSH-01&JSESSIONID=5D55L7FF6ADFF0 HTTP 1.1" 404 3322 "http://buttercup-shopping.com/cart.do?action=purchase&itemId=EST-268&product_id=KQ-CW-01"
137.27.160.0 - - [07/Jan 18:10:56:156] "GET /oldlink?item_id=EST-26&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 1318 "http://buttercup-shopping.com/cart.do?action=changequantity&itemId=EST-18&product_id=AV-CB-01&JSESSIONID=5D55L9FF1ADFF3 HTTP 1.1" 200 3865 "http://buttercup-shopping.com/cart.do?action=remove&itemId=EST-18&product_id=AV-CB-01"

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