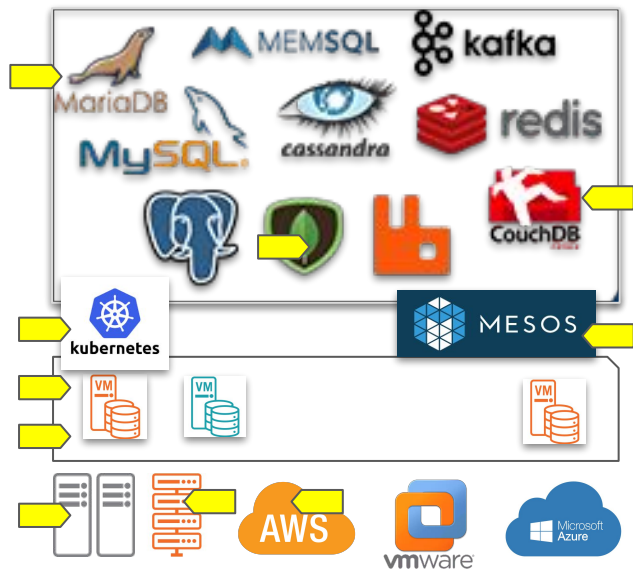


LIBRI and FARRIER:

Intuitive, AI-ready Framework for IT Stack Management and Assurance

Stack Management Today: Different formats, Many UI, Many Metrics



IT Ops get metrics, alerts, logs from various layers of the datacenter stack. Each layer has its own format.

- Infrastructure - Server HW, network, storage
- Platforms - Hypervisor, docker, SDN overlays
- Applications - SW apps, SaaS

Our AI-assisted Framework

Simplifies operation, Saves \$ and Reduces Downtime

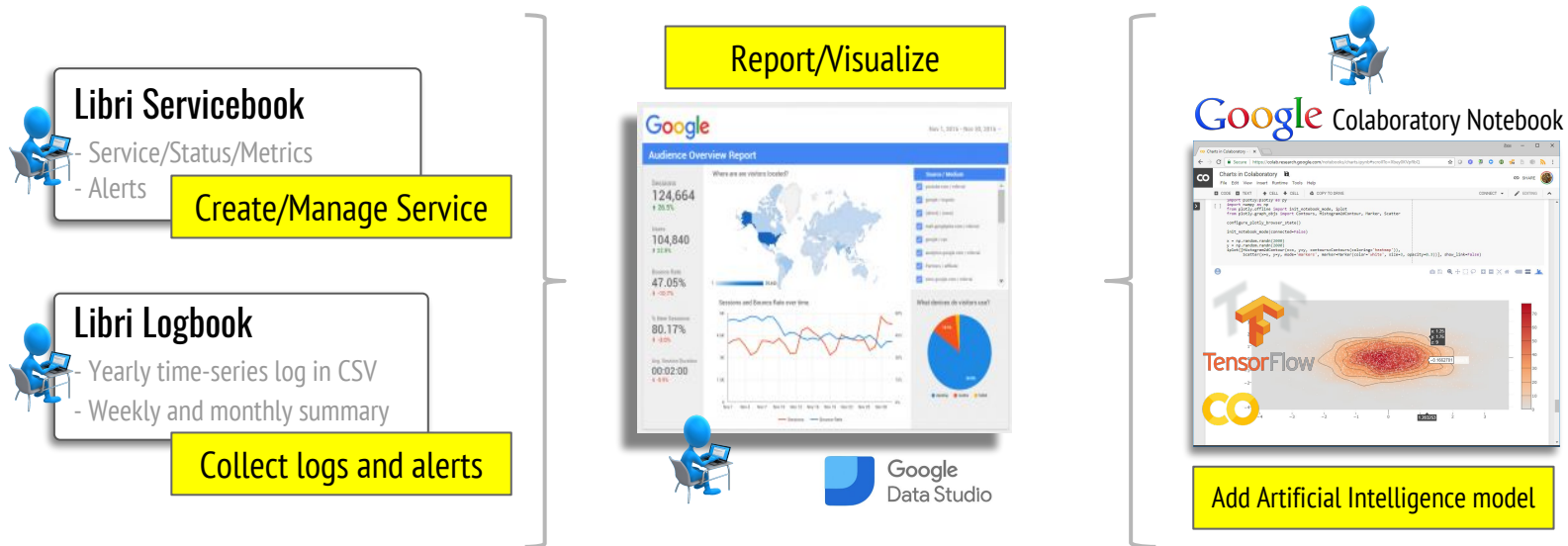
Machine Learning And AI Can Revolutionize IT Operations

- The entire stack from Infrastructure to Apps is evolving rapidly
- Service creation, operations and reliability assurance is getting complex
- Recent advancements in Artificial Intelligence and Machine Learning can
 - ✓ Cut upfront IT OPEX cost by 50% by unifying management for infrastructure, service and apps
 - ✓ Eliminate 90% of IT outages by learning and predicting issues beforehand
 - ✓ Save 90% of service platform expenses by leveraging modern serverless and visualization tools

Introducing **Libri** : ServiceBook Optimized for Data Browsing

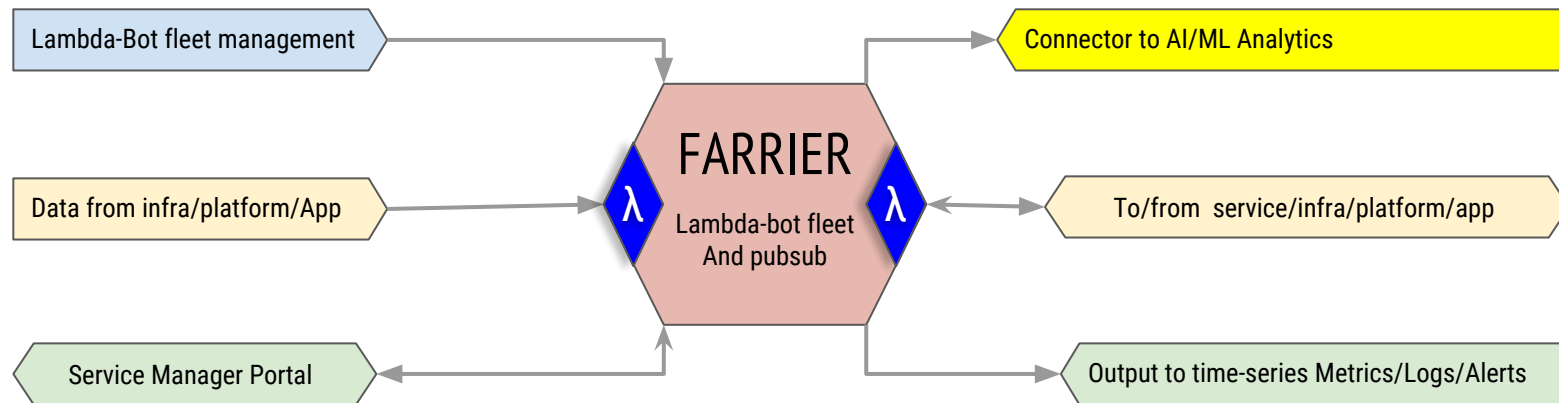
- Simplified version of the notion for [Jupyter notebooks](#)
- Uses a Google sheet as interface for basic user interchange for SaaS
- Each Libri Notebook has following structure
 - **Manage Service** : Google sheets file with named sheets like
 - Service: IT infrastructure service request
 - Status: Service fulfilment status
 - Keys: Security and API keys. Including location for Explorer notebooks (see next page)
 - **Manage Status**: Google sheets with following named sheets like
 - Metrics: SaaS specific metrics. Current values
 - Alerts: Info/Warning/Alert
 - Logs: Log management configuration
- The ServiceBook support backend runs on Google serverless cloud

Libri Books: Spreadsheets with Bot-service. Powerful. Intuitive.



Integrated with Google mail, drive, sheets, cloud-functions, pubsub, Colab AI and Data Studio from Day #1

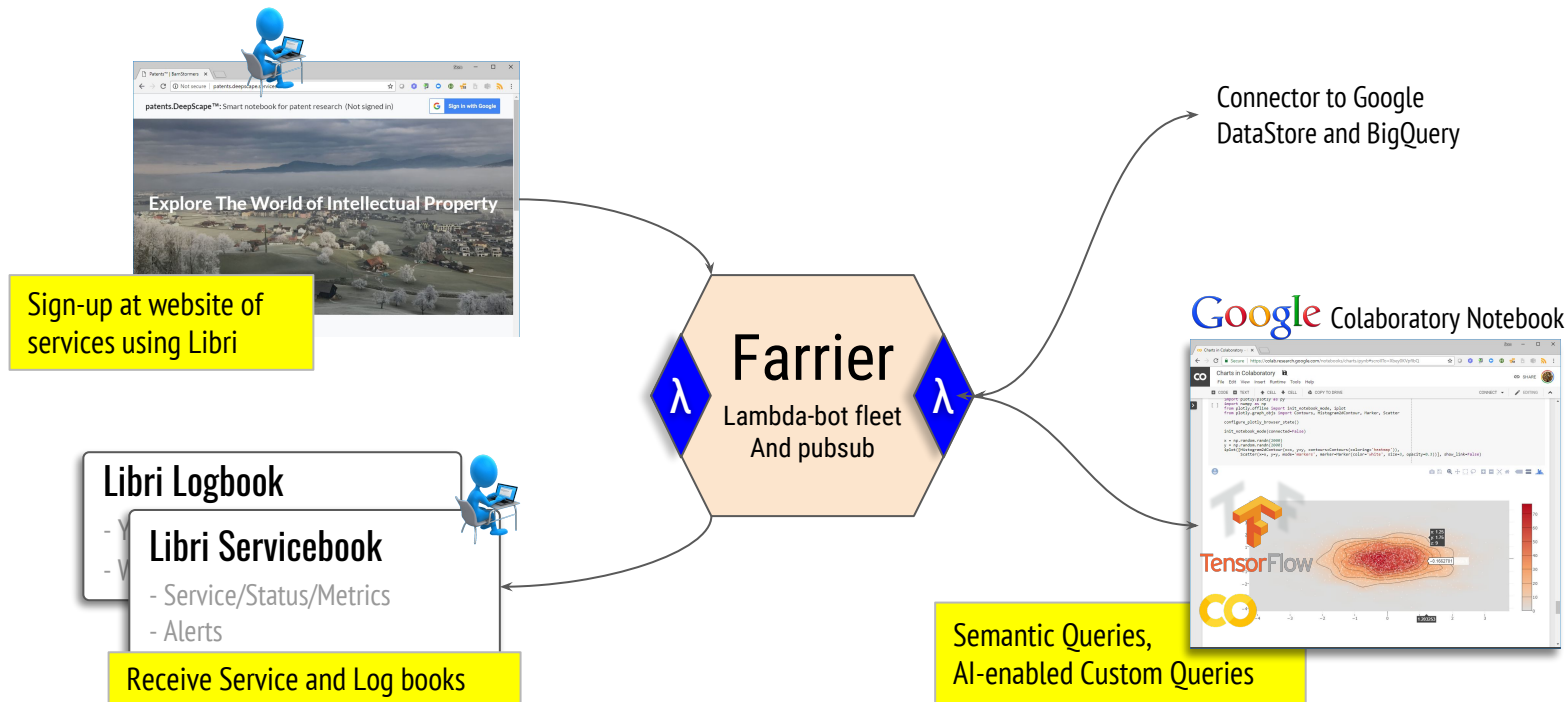
FARRIER : Extract/Transform/Load (ETL) Service with Bots



FARRIER is a an ETL service implemented with serverless lambda+pubsub framework for

High scalability, Low cost and pipes to latest AI/ML Framework

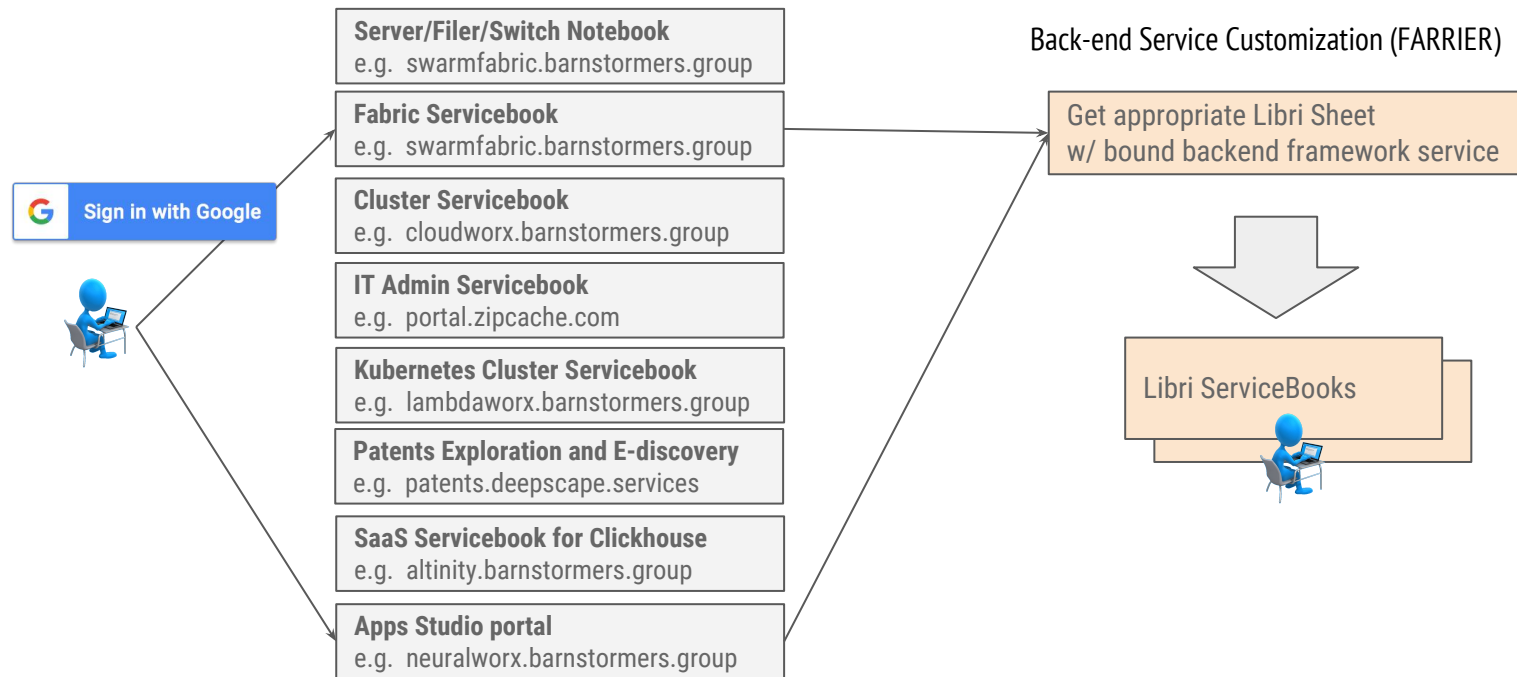
Example : 'DeepScape' - Patent Research and E-discovery Service



DeepScape.Patents: AI-enabled, G-suite Integrated E-discovery

- DeepScape.Patents Is a SaaS service from BarnStormers launching in December, 2018
- Libri and Farrier technology is integrated with templates for lambda-bot programs
- Google-Cloud-integrated service provides breakthrough capabilities for e-discovery
 - Deep insight: Integrated with Google Colab AI frameworks (Tensorflow/Keras/Pytorch)
 - Cost-efficient: Latest serverless cloud. DeepScape is 1/10th \$ of other e-discovery SW. And faster.
 - Great visualization: With Google Data Studio. Free.
 - Seamless integration: With G-suite and documentation tools

Farrier Provides Backend Service and Feature Extension with Bots



Status 9.9.2018 and Rollout Schedule (all dates are mid-month)

	Sept	Oct	Nov	Dec	Jan	Feb	March
Libri demo site	X						
Libri for SwarmFabric		X					
patents.DeepScape	X						
Libri for Servers (Syslog)		X					
Libri for ZipCache		X					
Libri for ClickHouse			TBD				
Libri for NeuralWorx			X				