

Platform Services

Security & Management



Service Creation & Configuration



User/Group Directory Store



Identity Sign-Up and sign-in



Multi-Factor



Scheduled Service Management





Encryption Key Store





Pre-Build VM Images

Services Compute







Integration





Hybrid Connections



Media & CDN



Web and Mobile



Web Apps Infrastructure









Developer Services







Software Lifecycle Management



Data

Search

Analytics & IoT

loT Device Mobile Analytics



Relational Data SQL Database Warehouse

Distributed In-Memory Cache





Document Database Service



Privileged Identity Management

Hybrid

Operations



Domain Join & Policy Management

Directory Health Monitoring



Server Data Backup



Operational Analytics



Bulk Data Import And Export





Hybrid/Intelligent Data Backup

Infrastructure Services

OS/Server Compute











Shared Storage

Storage



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Data
Pipelines

Device Data
Collection





Networking

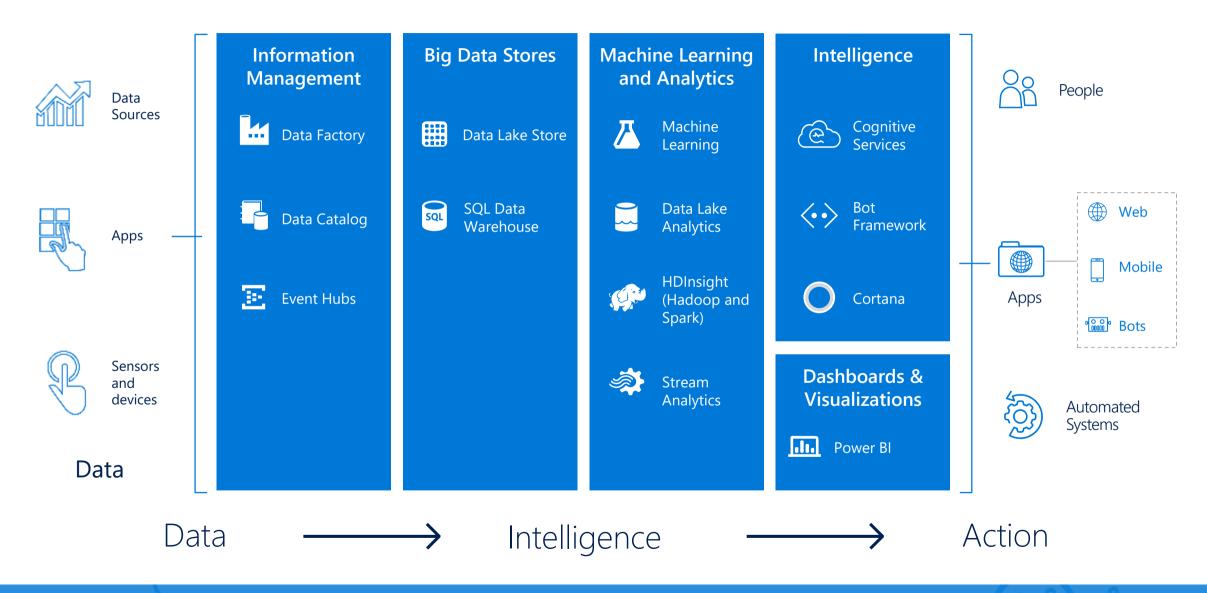






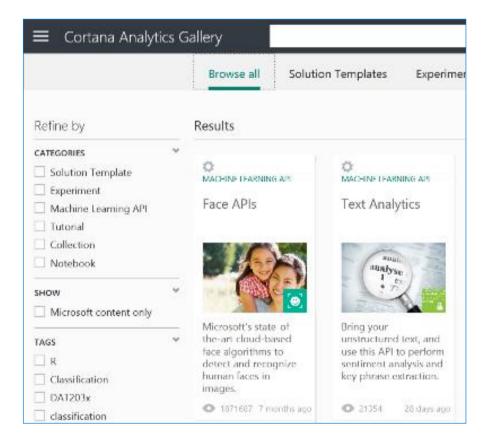
Datacenter Infrastructure (28 Regions, 22 Online)

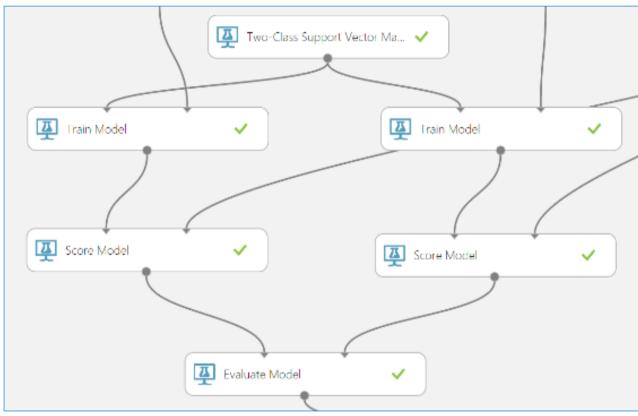
Transform data into intelligent action





Easily build, deploy, and share predictive analytics solutions





- Simple, scalable, cutting edge. A fully managed cloud service that enables you to easily build, deploy, and share predictive analytics solutions.
- Deploy in minutes. Azure Machine Learning means business. You can deploy your model into production as a web service that can be called from any device, anywhere and that can use any data source.
- Publish, share, monetize. Share your solution with the world in the Gallery or on the Azure Marketplace.

Azure Stack



Why Azure Stack?

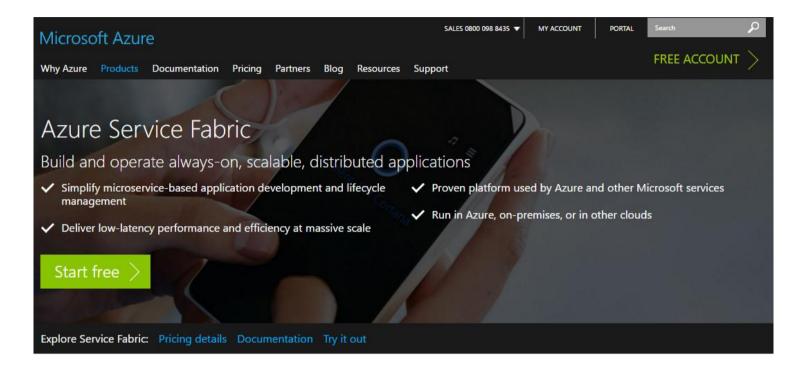
Microsoft Azure Stack is a new hybrid cloud platform product that enables your organization to deliver Azure services from your own datacenter to help you achieve more. Get the power of cloud services, yet maintain control of your datacenter for true hybrid cloud agility. You decide where to keep your data and applications —in your own datacenter or with a hosting service provider. Easily access public cloud resources to scale at busy times of the year, for dev-test, or whenever you need them. Only Microsoft builds and runs its own hyper-scale datacenters and delivers that proven innovation to your datacenter.

Read the blog to learn more about our Azure Stack vision

Read a white paper about Azure Stack fundamentals



Azure Service Fabric



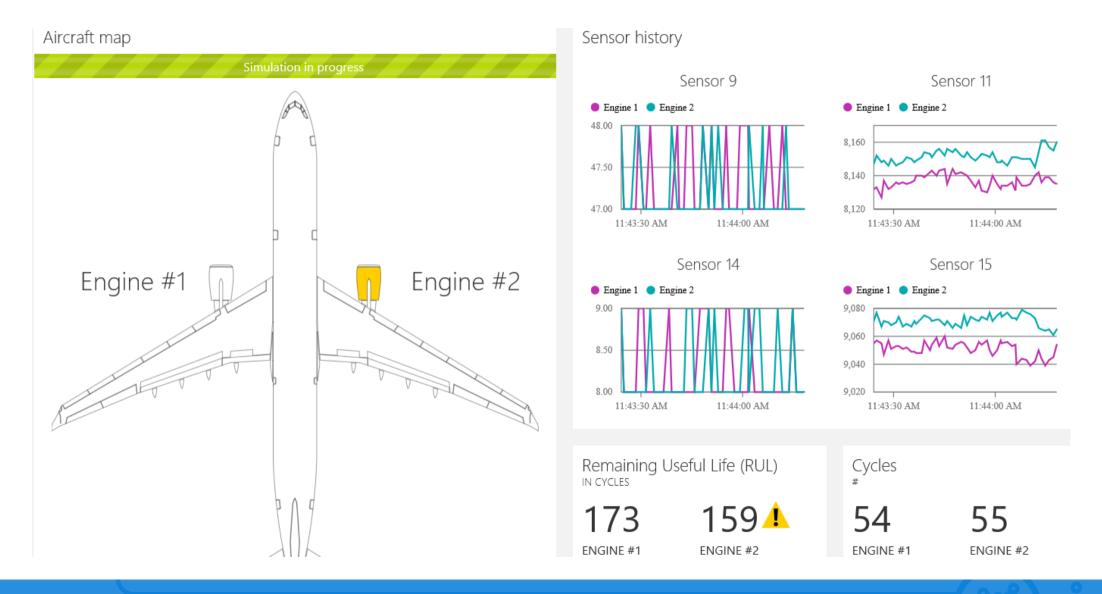
Simplify microservice-based application development and lifecycle management

- Fast time to market: Service Fabric lets developers focus on building features that add business
 value to their application, without the overhead of designing and writing additional code to
 deal with issues of reliability, scalability, or latency in the underlying infrastructure.
- Choose your architecture: Build stateless or stateful microservices—an architectural approach
 where complex applications are composed of small, independently versioned services—to
 power the most complex, low-latency, data-intensive scenarios and scale them into the cloud.



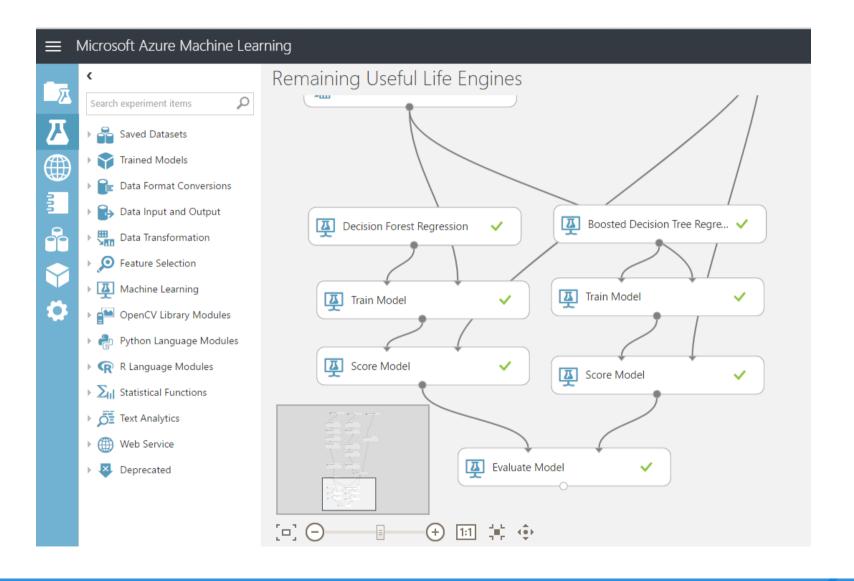


Predictive maintenance IoT template

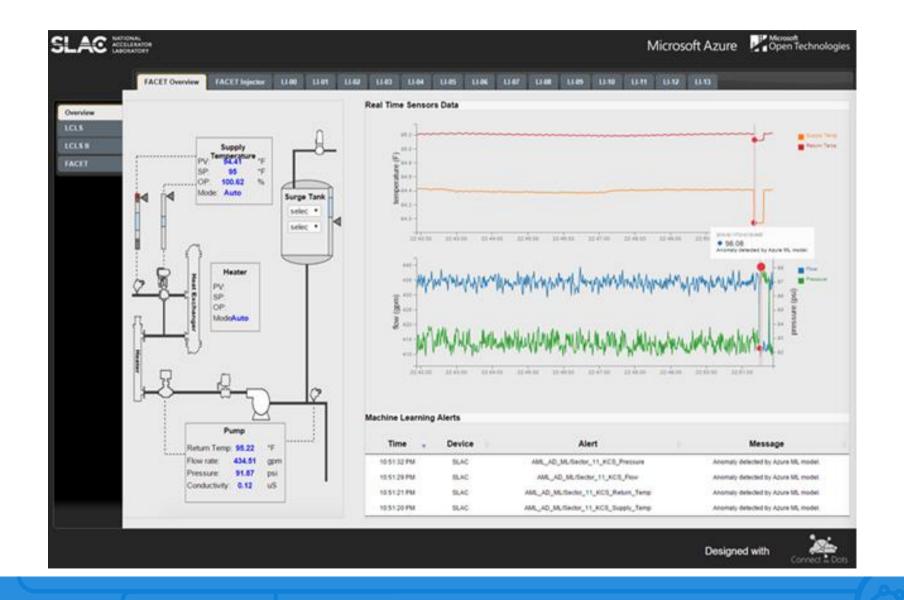




Predictive maintenance machine learning



SLAC: Azure ML & IoT



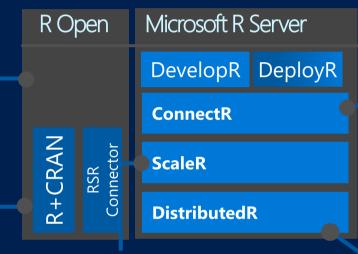
The Microsoft R Server Platform

R+CRAN

- Open source R interpreter
 - R 3.1.2
- Freely-available huge range of R algorithms
- Algorithms callable by RevoR
- Embeddable in R scripts
- 100% Compatible with existing R scripts, functions and packages

RevoR

- Performance enhanced R interpreter
- Based on open source R
- Adds high-performance math library to speed up linear algebra functions



ScaleR

- Ready-to-Use high-performance big data big analytics
- Fully-parallelized analytics
- Data prep & data distillation
- Descriptive statistics & statistical tests
- Range of predictive functions
- User tools for distributing customized R algorithms across nodes
- Wide data sets supported thousands of variables

ConnectR

High-speed & direct connectors

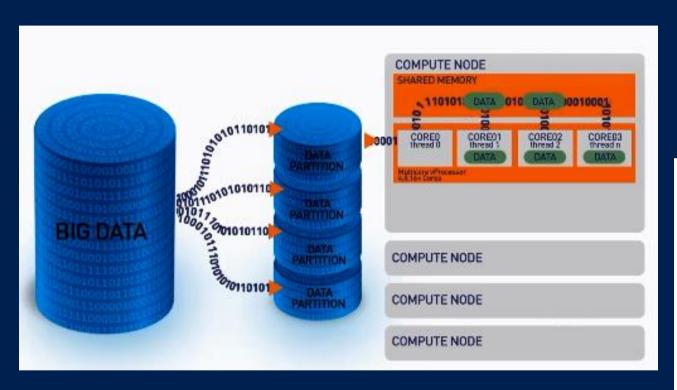
Available for:

- High-performance XDF
- SAS, SPSS, delimited & fixed format text data files
- Hadoop HDFS (text & XDF)
- Teradata Database & Aster
- EDWs and ADWs
- ODBC

DistributedR

- Distributed computing framework
- Delivers cross-platform portability

ScaleR - Parallel + "Big Data"

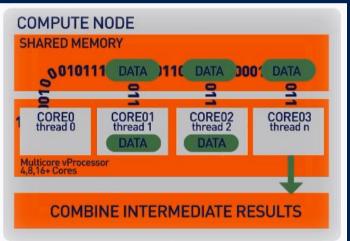


Stream data in to RAM in blocks. "Big Data" can be any data size. We handle Megabytes to Gigabytes to Terabytes...

XDF file format is optimised to work with the ScaleR library and significantly speeds up iterative algorithm processing.



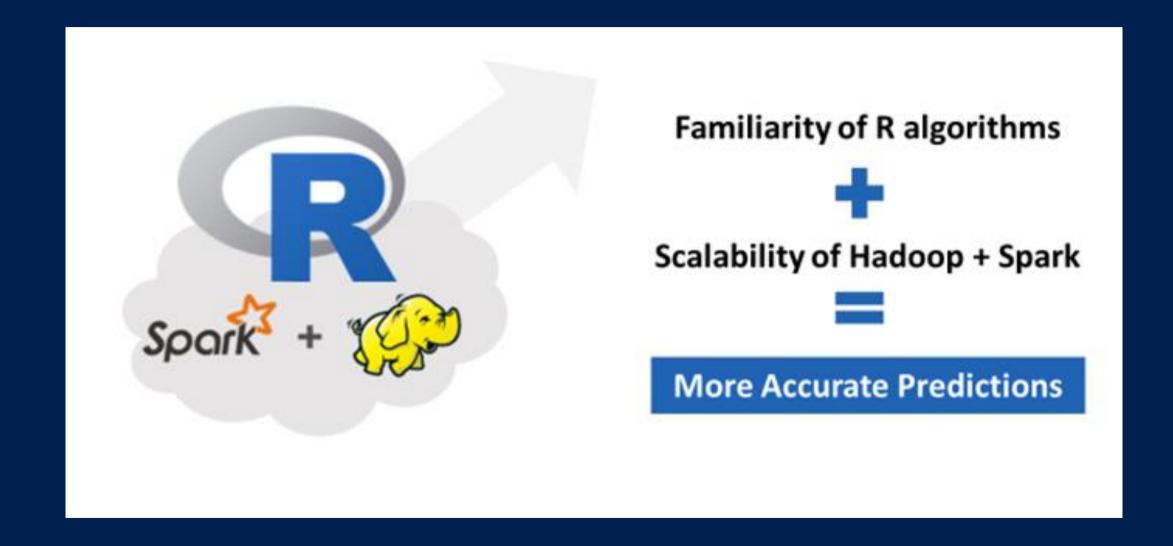
Our ScaleR algorithms work inside multiple cores / nodes in parallel at high speed



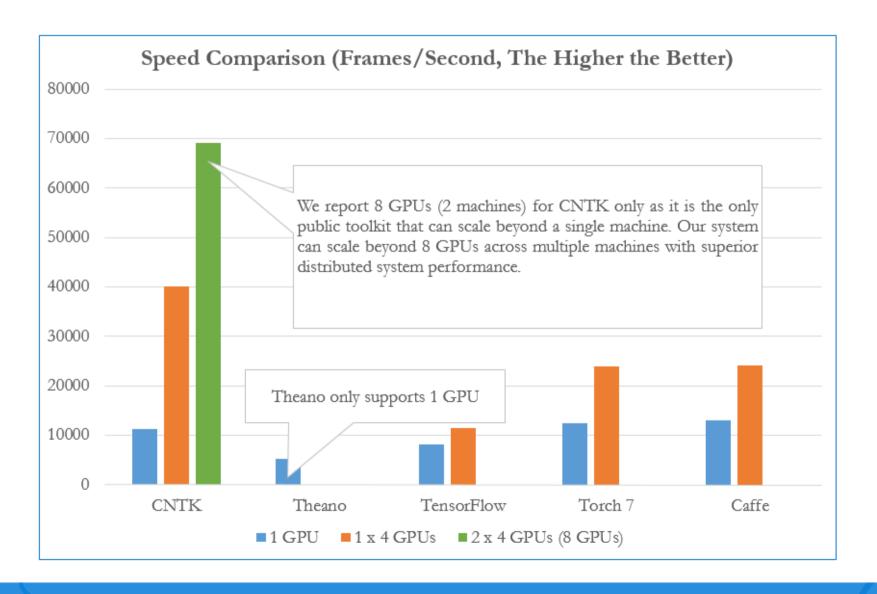


Interim results are collected and combined analytically to produce the output on the entire data set

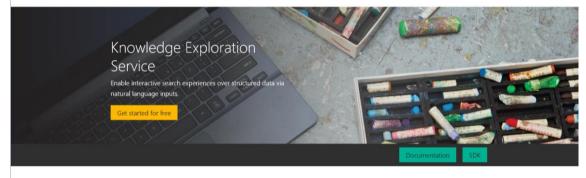
R Server for Azure HDInsight



CNTK open-source deep-learning toolkit



Cognitive Services



Natural Language Understanding

To interpret natural language queries as structured query expressions.



Query Auto-Completion

To reduce user effort and help with discovery of rich capabilities.



Structured Query Evaluation

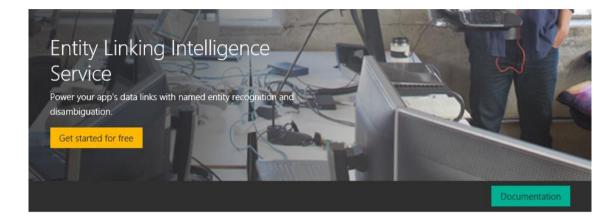
To efficiently retrieve detailed information about matching objects.



Attribute Histograms

To enable rich visualizations and interactive faceted





Entity Linking

Sometimes in different contexts, a word might be used as a named entity, a verb, or another word form within a given sentence. For example, in the case where "times" is a named entity, it still may refer to two separately distinguishable entities, such as "The New York Times" or "Times Square". Given a specific paragraph of text within a document, the Entity Linking Intelligence Service will recognize and identify each separate entity based on the context.

For months, the four scientific instruments at the heart of the James Webb Space Telescope have been sealed in what looks like a huge pressure cooker. It's a test chamber that simulates the grueling operating conditions they will face after Webb is launched into orbit in 2018. But in fact, "pressure cooker" is an apt metaphor for the whole project. The infrared Webb observatory is the biggest, most complex, and most expensive science mission that NASA has ever attempted. Like that of its predecessor, the Hubble Space Telescope, Webb's construction has been plagued by redesigns, schedule slips, and cost overruns that have strained relationships with contractors, international partners, and supporters in the U.S. Congress. Lately the project has largely stuck to its schedule and its \$8 billion budget. But plenty could still go wrong, and the stakes are high: Both the future of space-based astronomy and NASA's ability to build complex science missions depend on its succe

Highlight Content

ISON

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Q&A

Microsoft Academic Graph

http://aka.ms/academicgraph

aka.ms/AcademicAPI Venue (> 23K) Event (> 46K) Author (> 40M) Publication(> 100M) Citations (billions)

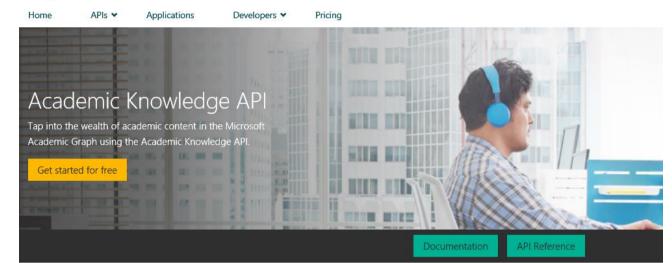
Institution (20K)

Field of Study (> 50K)

Knowledge API



My account 2



Interpret

Interprets a natural language user query string. Returns annotated interpretations to enable rich search-box auto-completion experiences that anticipate what the user is typing.



Evaluate

Evaluates a query expression and returns Academic Knowledge entity results.





aka.ms/AcademicAPI





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