IBM Watson IoT

QRF Alliance

Internet of Things Platform

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Watson IoT Platform is a foundation for our industry solutions and IoT business use cases

IoT Industry Solutions

Enterprise Asset Management	Production Quality Insights	Worker Insights	Facilities Optimization	Building Insights	Facilities Management
Asset Performance Management	Production Optimization	Inventory Optimization	Watson Assistant Solutions	Continuous Engineering	

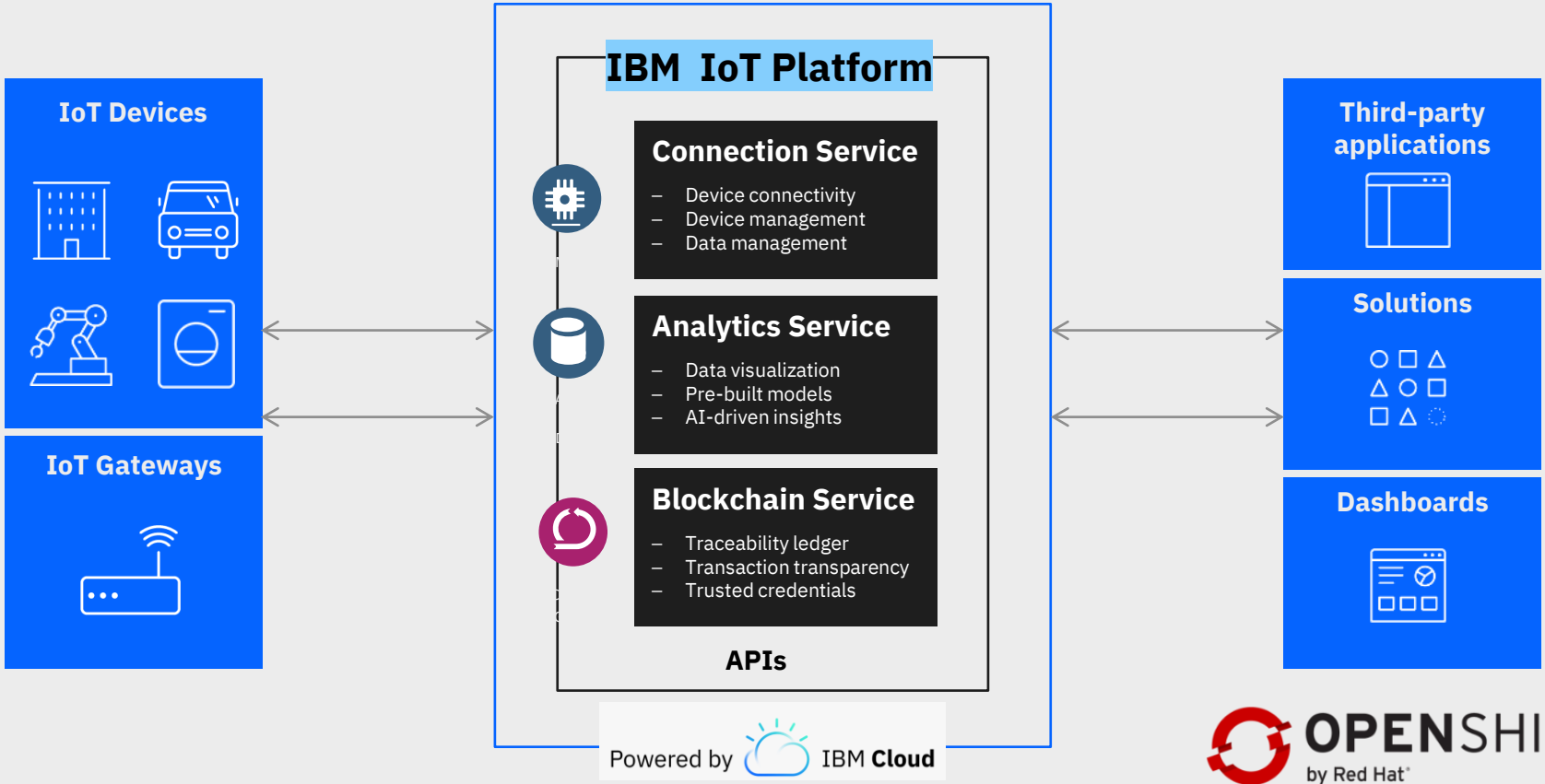
Watson IoT Platform
Integrated managed service with SLAs and unified per device pricing

Connection Service
Securely connect and store

Analytics Service
Explore AI-driven insights

Blockchain Service
Govern and deliver

IBM IoT & IBM Cloud



OPENSHIFT by Red Hat

https://www.ibm.com/cloud/architecture/architectures/iotArchitecture

Watson IoT Platform is improving outcomes in key industries

Manufacturing

L'ORÉAL
increased 10% equipment effectiveness (OEE) and 20% operational efficiency

SANDVIK
increased production by 10% by predicting issues and avoiding downtimes

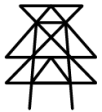
Whirlpool
improved quality by 50% and achieve 90% on time delivery

Transportation

Port of Rotterdam
Saving up to $80,000 a day in shipping costs

SNCF
Reduce maintenance cost of tracks and trains by 10X

MSC
5% improvement in unloading times and vessel utilization



Utilities

ONICO
Prevent contamination in 40% of tanks with early detection

Lyse
Saving up to 20% in energy costs to customers

DIAMOND OFFSHORE
Increase rig utilization by 5% by increasing efficiencies across their fleet

Watson IoT Platform:

Flexible deployment for Industrial Use Cases

Public Cloud

Publicly hosted SaaS IoT Platform that is fully managed with SLA for production use

Private Cloud

A contained and functional data center

Speed of public, control of private using containerized applications for flexibility

Hybrid Approach

Provides both on and offline responses

Combine public and private and optimize the IoT data sent, processed and analyzed

Watson IoT Platform:

Privacy and Security *by design*

IBM: A global leader in enterprise security

- 8000+ employees, 133 countries, 3,500+ security patents and 20 acquisitions since 2002

IBM Cloud Security and Privacy focus

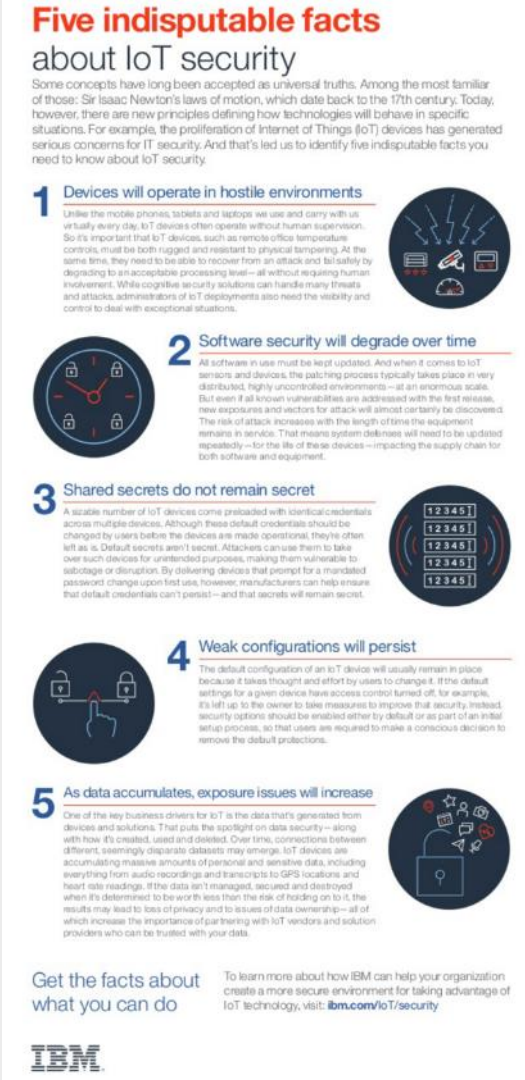
- Proactive protection: Multi-layer Security Strategy
- IBM Data Policy – Customers owns all Data
- Secure Device to Cloud communication via TLS and device certificate support
- Resource level access control for administration and device control
- Support integration with QRadar for displaying IoT device status

IBM provides Chip to Cloud IoT Security through Partners, Solutions and IoT Platform

- Collaboration with silicon producers and chip designers (ARM, NXP, WISeKey)
- Expertise in Security in IoT, for example **IBM X-Force Red penetration testing**
- Secure by design Watson IoT Platform with Advanced Security policies and dashboard

IBM is the Leader in IoT Security

- Leadership Presence in IoT Security Foundation, IoT Cybersecurity Alliance, and other IoT industry bodies
- IBM Developed & Published IoT Security Best Practices for device and solution creators
- IBM Surveyed 700 Industry Executives: identified 9 practices that differentiate top IoT security performers



Watson IoT is defining open source and standards

Watson IoT provides end to end solutions with strong industry partnerships across the IoT landscape

Connectivity & security technology	Connectivity & security technology	Connectivity, security & edge analytics	Relationships & reach	IBM Cloud & IoT Platform	IBM IoT industry solutions
Silicon	IoT Devices	Gateways	Networks	Cloud	Solution & Applications
Texas Instruments, NXP, ARM	National Instruments, Honeywell, Ingram Micro, IQRF	Telit, Nokia, Arrow, Cisco	Vodafone, AT&T	IFTTT, IBM Cloud, The Weather Company	Tech Mahindra, Airbus, Bosch

IBM

Partner

End-end IoT solution

IBM & IQRF Offering

Internet of Things Platform on **IBM Cloud** and [UP-IQRF IoT Starter Kit]

IBM **Cloud**

- Includes up to **500** registered devices, and a maximum of **200** MB of each data metric
- Maximum of 500 application connections
- Maximum of 200 MB of each of data exchanged, data analyzed and edge data analyzed

Sign up here http://ibm.biz/cloud-4-dev

https://www.iqrfalliance.org/marketplace/ibm-cloud





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