LIGHTHOUSE
COMPUTER SERVICES

IBM DataPower Gateway Healthcheck

Value

➤ Reducing Operating Costs and Improving Security (through converging policy enforcement and advanced security)

➤ Helps Reduce Time to Market, Improve Productivity, and Scale Expertise (through configuration-driven policy creation and flexible user experience)

➤ Lowers Total Cost of Ownership (through a purpose-build, DMZ-ready and extensible platform

➤ Secure---Manage----Control---Optimize

Secure

➤ Authentication, authorization, auditing
➤ Security token translation
➤ Threat protection
➤ Schema validation
➤ Messaging filtering
➤ Message digital signature
➤ Message encryption

Integrate

➤ Any-to-any message transformation
➤ Transport protocol bridging
➤ Message enrichment
➤ Database connectivity
➤ Mainframe connectivity
➤ B2B trading partner connectivity
➤ Hybrid cloud integration
➤ Amazon EC2/SoftLayer® CCI

Control

➤ Quota enforcement, rate limiting
➤ Content-based routing
➤ Failure re-routing
➤ Integration, with goverance, monitoring and management platforms
➤ B2B partner management

Optimize

➤ SS>/TLS offload
➤ Hardware-accelerated cryptic operations
➤ JSON, XML offload
➤ JavaScript, JSONiq, XSLT, XQuery acceleration
➤ Response caching
➤ Intelligent load distribution

➤ **A single multi-channel gateway platform** to secure, integrate, control and optimize delivery of workloads across multiple channels. Additionally, it integrates with IBM MobileFirst and WebSphere platforms

➤ **Converging policy enforcement and advanced security** that allows a single entry point to protect and use consistent security policies across business channels (reducing operating costs and improving security)

➤ **Configuration-driven policy creation and flexible user experience** to help reduce time to market, improve productivity and scale expertise

➤ **A purpose-built, DMZ-ready and extensible platform** that enables business agility, physical security, drop-in deployment and simplified management—lowering total cost of ownership

➤ **NEW features and enhancements:**

• Amazon EC2 and Softlayer CCI support (for increased deployment flexibility on public cloud environments)

• Secure Gateway service (that provides optimized connectivity between Bluemix applications to on-premises applications that are protected by DataPower Gateways)

• Enhanced mobile and API message-level security (with support for JSON Web Encryption, JSON web Signature, JSON Web Key, and JSON Web Token)

• XML enhancements for GatewayScript (to easily transform between JSON and Extensible Markup Language (XML) payloads, enabling easier integration between Web service and RESTful architectures)

• Stronger Transport Layer Security protocol security (with support for Elliptic Curve Cryptography (ECC), Server Name Indication (SNI) and Perfect Forward Secrecy (PFS) to protect against malicious protocol attacks)

• New REST-based management API (for managing DataPower configuration and build automation, enabling easier DevOps)

• Security-enhanced integration and mainframe connectivity (to rapidly connect and securely expose applications and services to a wide range of consumers)

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Questions to Ask

1) Do you want to plan, merge, and secure new channels including API's?
2) Would you like to secure, control, and connect your digital world with one gateway ?
3) Are you looking to secure and scale mobile workloads?
4) Are you looking to secure enterprise integration for System Z
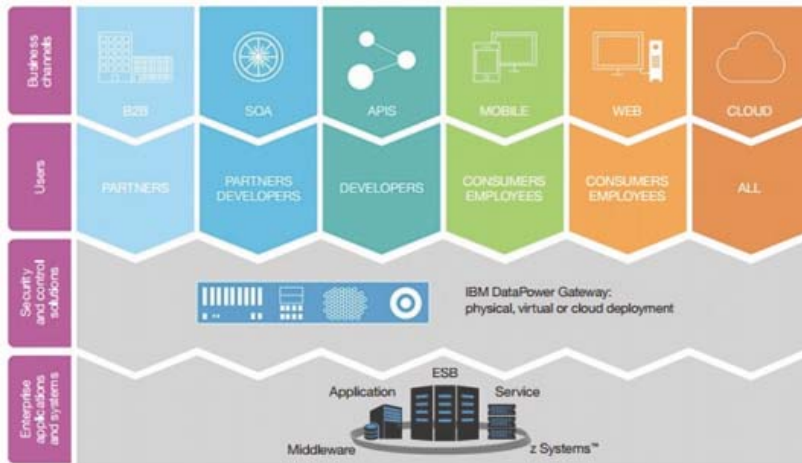5) Do you want to optimize your application server infrastructure?

Figure 1. Use a DataPower gateway at the security and control solutions level to standardize security policies and eradicate silos of security

Identify

➤ Architecture and Configuration including Disaster Recover, Load Balancing and HA, Web Service Proxy, Logging Analysis, Management Interface usage, etc

➤ Use Case Analysis including Data Flow Analysis for Inbound and Outbound Services

➤ Analysis for Maintenance and Monitoring of IBM DataPower

➤ Perform Security and Access Management Analysis including Security Threats and Vulnerabilities, Service Authentication and Authorization

The Deliverable

➤ IBM DataPower Gateway— a purpose-built security and integration platform for mobile, cloud, API, web, SOA and B2B workloads
  • Encrypted storage
  • Intrusion detection
  • Optional onboard hardware security modules
  • Hardware-based cryptographic acceleration

OR

➤ IBM DataPower Gateway Virtual Edition—purpose-built gateway functionality in a virtual appliance to rapidly secure and optimize workloads on supported hypervisor and cloud platforms including:
  • VMware and Citrix XenServer hypervisors
  • IBM SoftLayer, Amazon Web Services (AWS EC2) and Microsoft Azure