IBM DataPower Gateways

Ozair Sheikh
Program Director of Offering Management
API Connect & Gateways

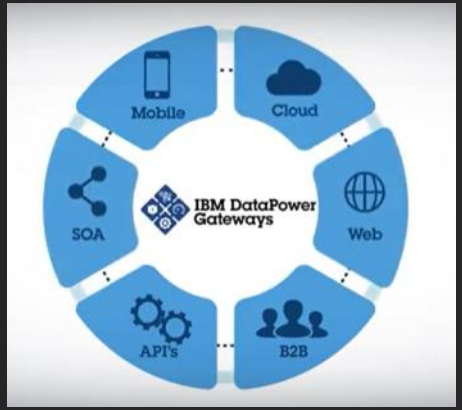
IBM DataPower Gateway 90-day Offer

Protect critical IT infrastructure from overwhelming demand and security exposures

Due to the Covid-19 epidemic, industries are experiencing a spike in demand for their essential services, putting a lot of pressure on existing systems.

- IBM will offer **extended entitlement at no-charge** to existing DataPower customers.
- **Sign-up before April 30,2020** to extend your entitlement for ninety (90) days at no charge from the date of sign-up.

Offer is available to customers who have active entitlement to either physical or virtual appliances.



- Enterprise-grade security gateway
- Simplified integration
- Reduced cost and complexity
- Smart insights and troubleshooting

Sign up free for 90-days to extend your DataPower Gateway entitlement

IBM DataPower Gateway 90-day Offer Details

What is included?

- Deployment of DataPower Gateway Virtual Edition for both production and non-production scenarios
- Usage of any DataPower Gateway Virtual Edition, such as VMWare, Linux or Docker
- Up to 100 cores of DataPower Gateway Virtual Edition

After signing up, an IBM representative will contact customers with further details on how to take advantage of this offer with an existing license.

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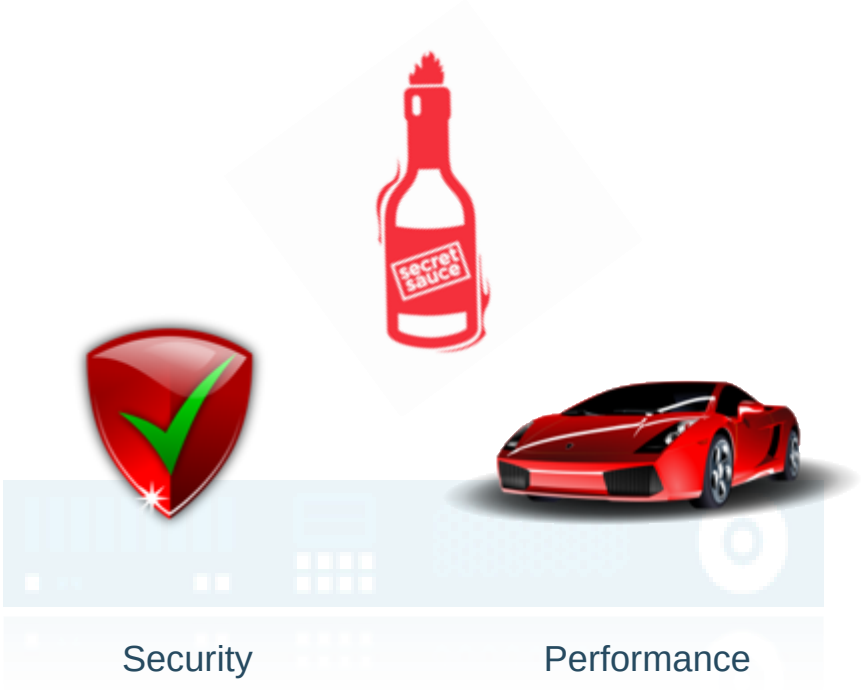
DataPower Secret Sauce

Security: Secure to the core with secure platform & self-contained signed & encrypted firmware image to *minimize risk of security exposures*

Performance: patented gateway technology that executes transactions natively within the OS, *delivering 30K TPS at wire speed*

DataPower Gateways help reduce TCO

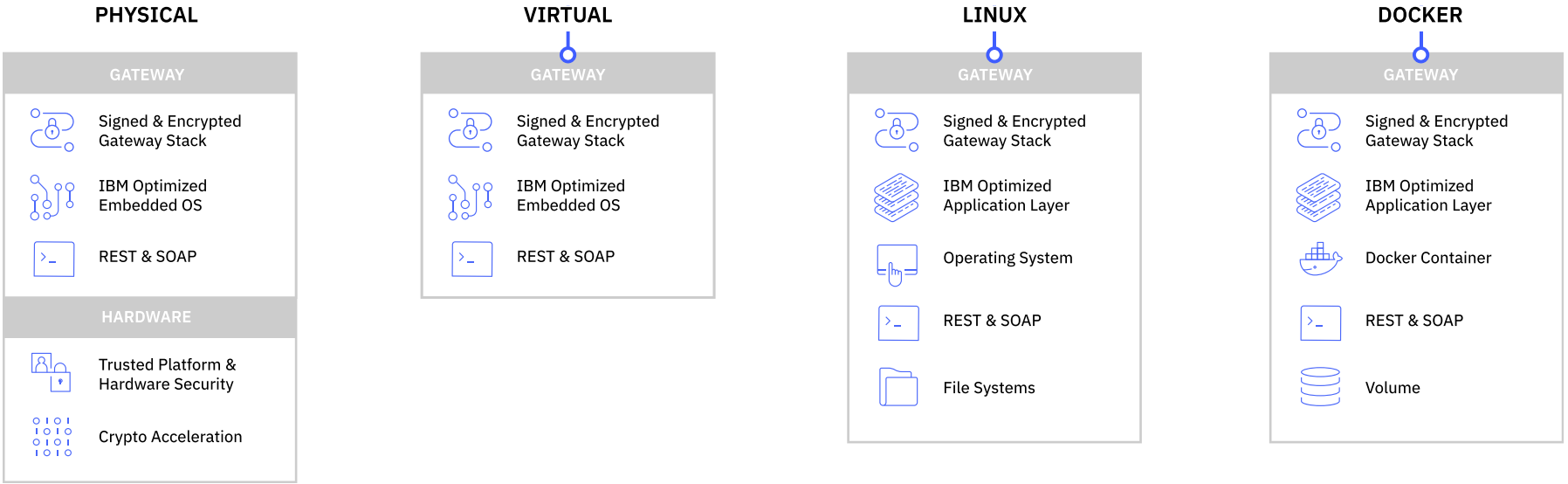
- **Less security exposures** reduces time spent patching systems
- **Minimal performance tuning** reduces infrastructure and operational costs
- **Less hardware needed** to support workload which lowers capital expenditure



DataPower Gateways can deploy anywhere…

Physical appliances: All-in-one (HW / SW), DMZ-ready with physical security including crypto acceleration and optional hardware security module (HSM)

Software: virtual appliance, application (Linux) & container (Docker/Kubernetes) provide flexible deployment options for both cloud and on-prem environments



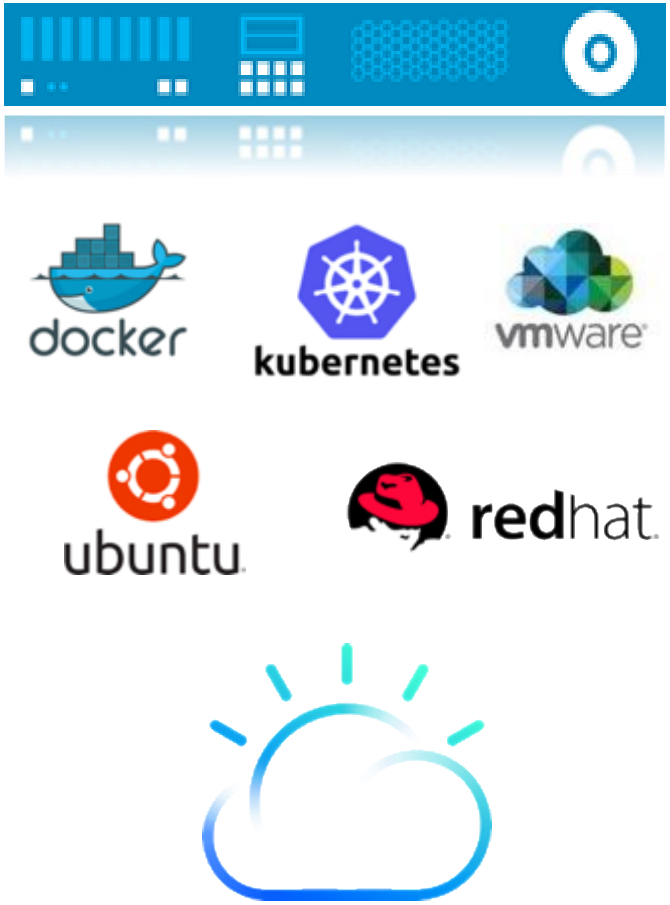
Choosing the right Gateway form factor

Physical appliances provides the most comprehensive security combined physical with firmware security.

Virtual, Linux and Container offer “right sized” units of capacity, as few as 4 CPUs

Container provide ability to leverage auto-scaling and runtime health monitoring

Container is “cloud ready” to facilitate both public and private cloud based deployments



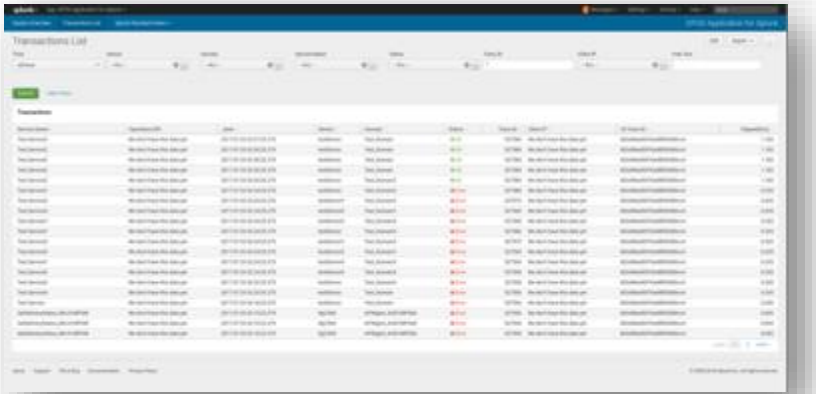
Enhanced Troubleshooting with DataPower Operations Dashboard

Powerful API diagnostics with detailed views across latency, version, policy, and consumer

Non-intrusive tracking of transactions across multiple gateways without any manual policy instrumentation

Supercharged performance for demanding workloads via new distributed, federated server architecture

Reduce Splunk licensing cost with DPOD plug-in for Splunk, empowering Splunk admins unique operational insight collected from DPOD

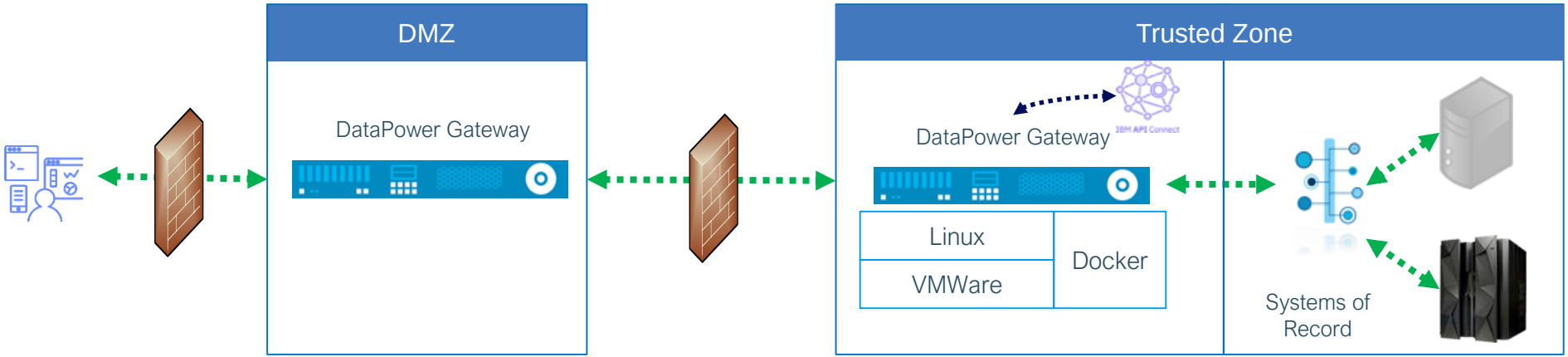


Best Practices

Deployment Scenarios

DataPower Gateways are typically deployed in either the DMZ or Trusted Zone

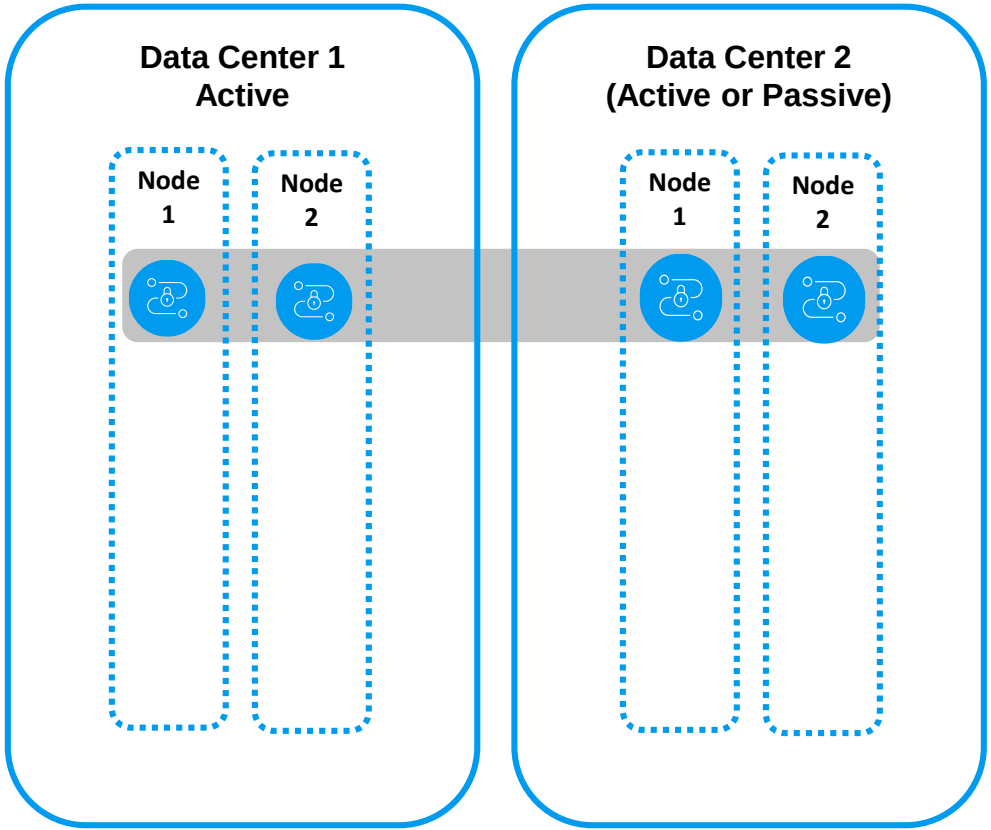
- Physical appliances are suitable for deployment in DMZ
- All form factors can be deployed in Trusted zone



Traditional Topology – Active for HA; Passive For DR

Traditional deployment consists of two data centers

- Two DataPower Gateways instances per Data Center
- Requires external load balancer to route traffic between data centers
- Optionally, use AO self-balancing to route traffic between DataPower Gateways within the data center
- Passive instances are pre-configured but without live traffic



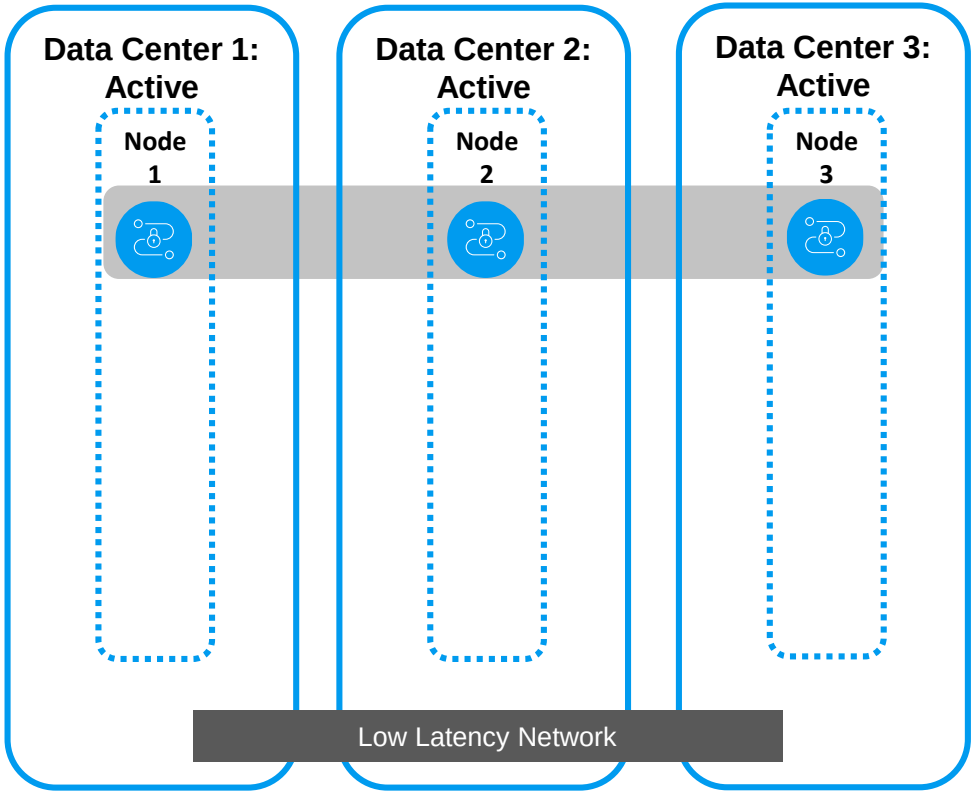
**Nodes represent physical appliances or VMs

Kubernetes Topology - Three Data Centers for HA

Deployment of three DataPower Gateway instances is required for HA in Kubernetes

Deployment with API Connect mandates three instances to ensure quorum

- Instances can be deployed within application domains / tenants to achieve quorum requirement



**Nodes represent physical machine or VMs

DevOps – Manage DataPower Configuration

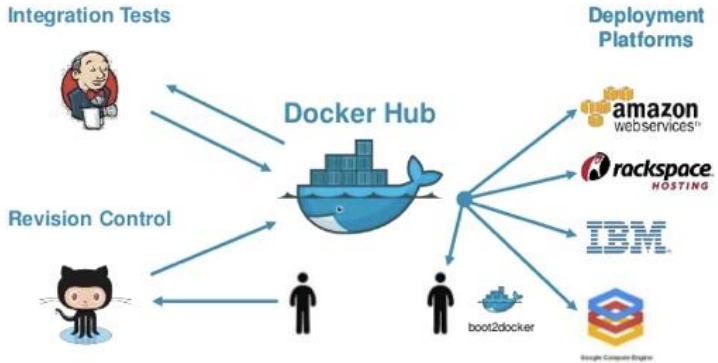
DataPower configuration is persisted on file system per domain

Programmatically modify configuration using following methods:

- Command Line Interface (CLI)
- SOAP Management interface (SOMA)
- REST Management interface (ROMA)

Manage environment / domain specific configuration

- Deployment policy objects
- DevOps pipeline to templatize and modify configuration



DevOps - Deploy DataPower Configuration

Deploy configuration and crypto material

- **Secure Backup/Restore** to manage configuration + crypto material
- **Import/Export** to manage configuration only (keys managed separately if stored in cert/sharedcert folders)
- **Container/Linux only:** Map host machine volume (ie source control systems) to DataPower file system (local/config)

Key Management

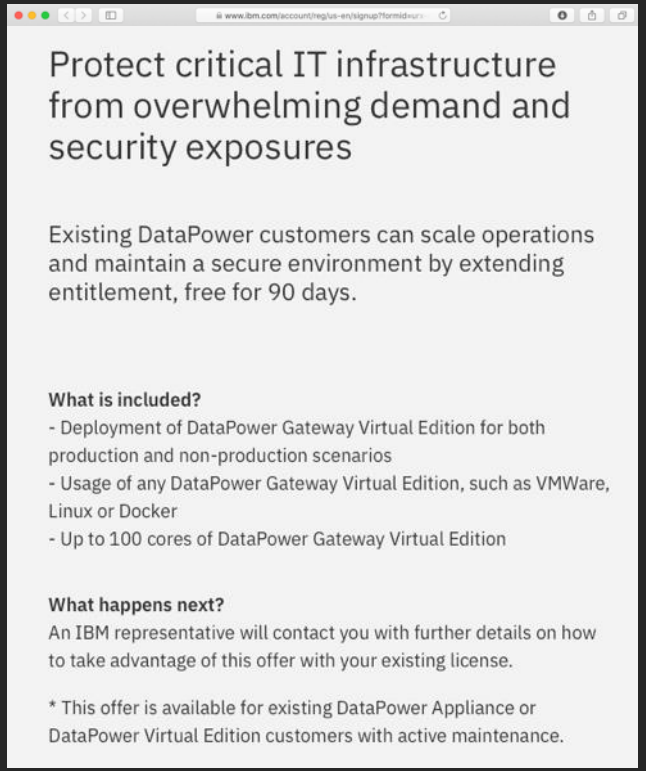
Form factor drives the optimal approach to store sensitive information

- **Embedded & Network Hardware Security Module (HSM)** provides additional level of security using dedicated hardware
- **Virtual Appliances** store crypto material within flash memory with additional layer of security
- **Linux & Container** form factors map file system directories for easier DevOps

Use password aliases to mask sensitive information within firmware

Start using the 90-day Offer now!

1. Sign up free for 90-days.
2. IBM representative will contact customers with further details on how to take advantage of this offer with an existing license.
3. Explore Online Learning Material.



https://ibm.biz/Bdq2ci

Summary

- Free 90 day entitlement for DataPower Gateway customers
- DataPower Gateway form factors
- DataPower Operation Dashboards
- Best practices for deploying DataPower Gateways for HA, including Kubernetes
- Architectural guidance for managing DataPower configuration

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