

# IBM DataPower Gateway with Public Cloud



February 2021



# IBM DataPower Virtual for Public Cloud

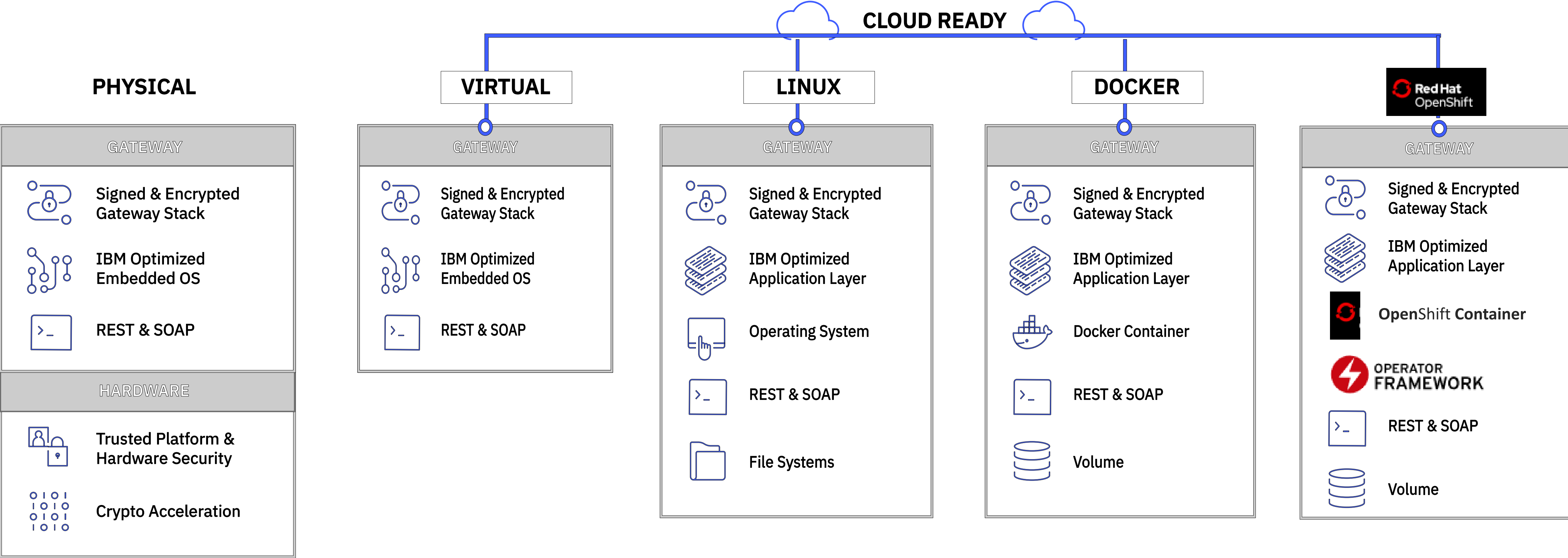
DataPower is the industry leading gateway for Security, Control, Integration and Optimized access to the full range of API, Mobile, WEB, SOA and B2B workloads. The DataPower gateway provides a complete set of capabilities for all deployments from on-premise appliances to multi-cloud deployment. This allows your organization to leverage the existing DataPower talent and apply them as you build out your applications and services to public cloud infrastructures. DataPower provides a:

- *Consistent Developer Experience in building gateway configuration for faster time to market.*
- *Consistent capabilities for platform monitoring and management.*
- *Gateway placement in cloud to optimize latency and response time for applications and services.*

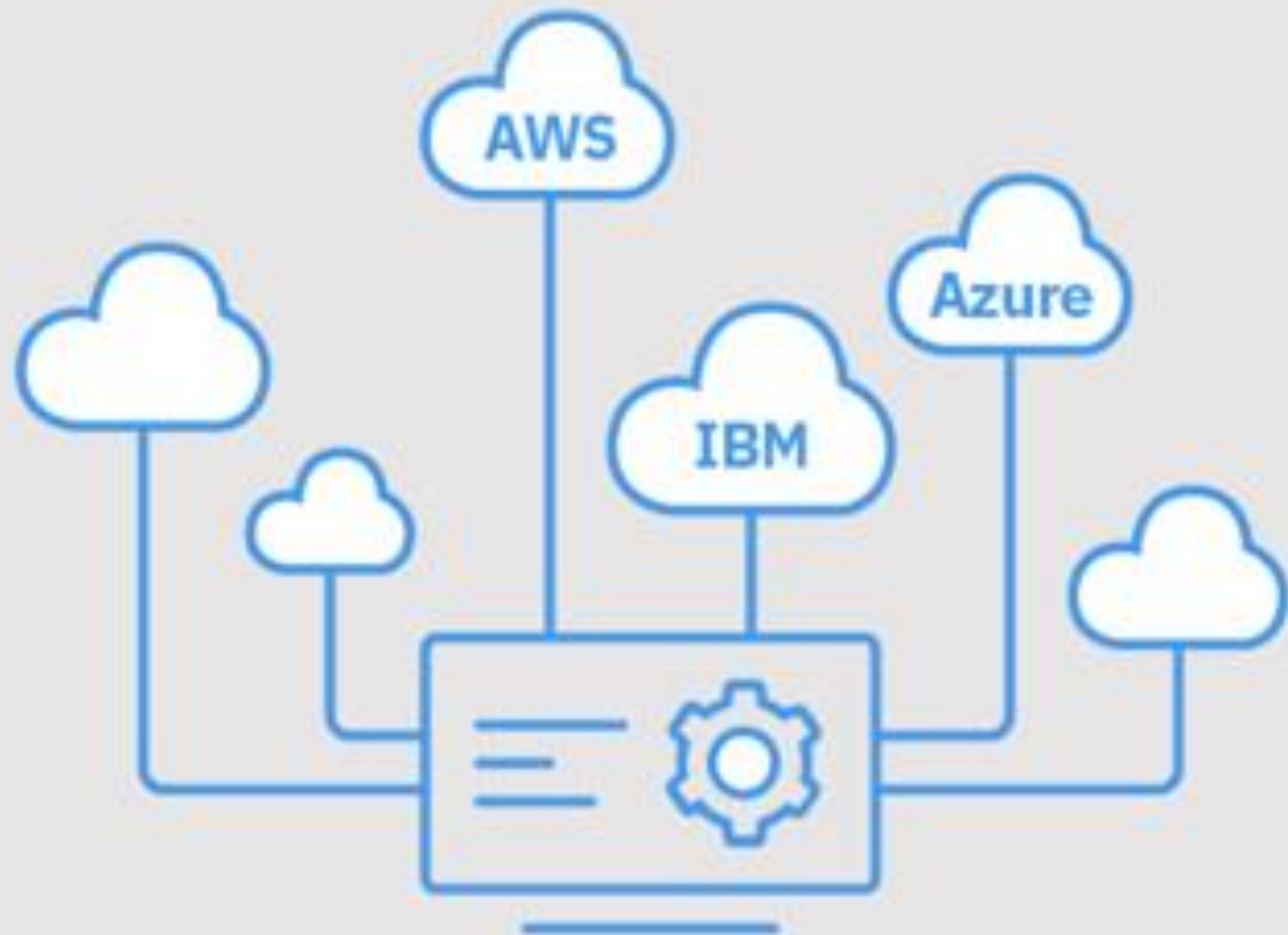
# Public Cloud Deployment Options

**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*) & containers provide flexible deployment options for both cloud and on-premise environments



# Gateway should be deployed co-located with protected applications/services



- Minimize **Latency**
- Highest levels of **Security** with traffic localized
- Consistent **reliability** for entirety of infrastructure

# Cloud vs On-Premise – **Why is this a question**



- **Security** requirements same for cloud and on-premise applications
- Same Gateway security **capabilities** for all deployments
- You require **highest** levels of security for your on-premise applications why entrust cloud application to less

# Same Great Capabilities

## Security



- Industry standard protocols including OAuth, SAML, XACML, JWT, WS-Security, LTPA, and Kerberos to secure access to applications
- Authentication, Authorization, and Auditing to converge security enforcement
- Token translation to easily integrate between many security protocols
- Message protection with digital signature and encryption capabilities
- Transport protection with SSL/TLS processing



# Same Great Capabilities...

**Control**



- Rate Limiting to enforce quota
- Traffic Control to protect services and applications from over-utilization
- Content-Based Routing
- Flexible Error handling

# Same Great Capabilities...

## Optimization

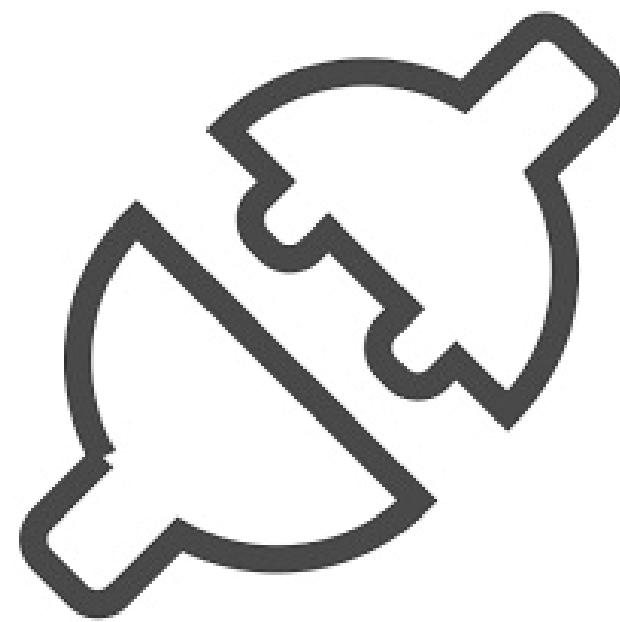


- SSL/TLS Offload and Connection Pooling
- Intelligent load distribution by leveraging dynamic runtime conditions to distribute load based on topology and workload
- Front Side self load balancing
- Caching (Local and External) for faster application response time and improved system throughput
- Custom GatewayScript and XSLT acceleration to achieve highest levels of performance



# Same Great Capabilities...

## Integration



- Transform Payloads (JSON,XML,CSV,..) to offload intensive and common processing
- Bridge Transports (HTTP,MQ, Kafka, AMQP, SFTP,..)
- Database Connectivity (DB2,Oracle,..) and file delivery of information sensitive data

# DevOps – Manage Gateway Configuration optimized for platform

## Currently for your appliances

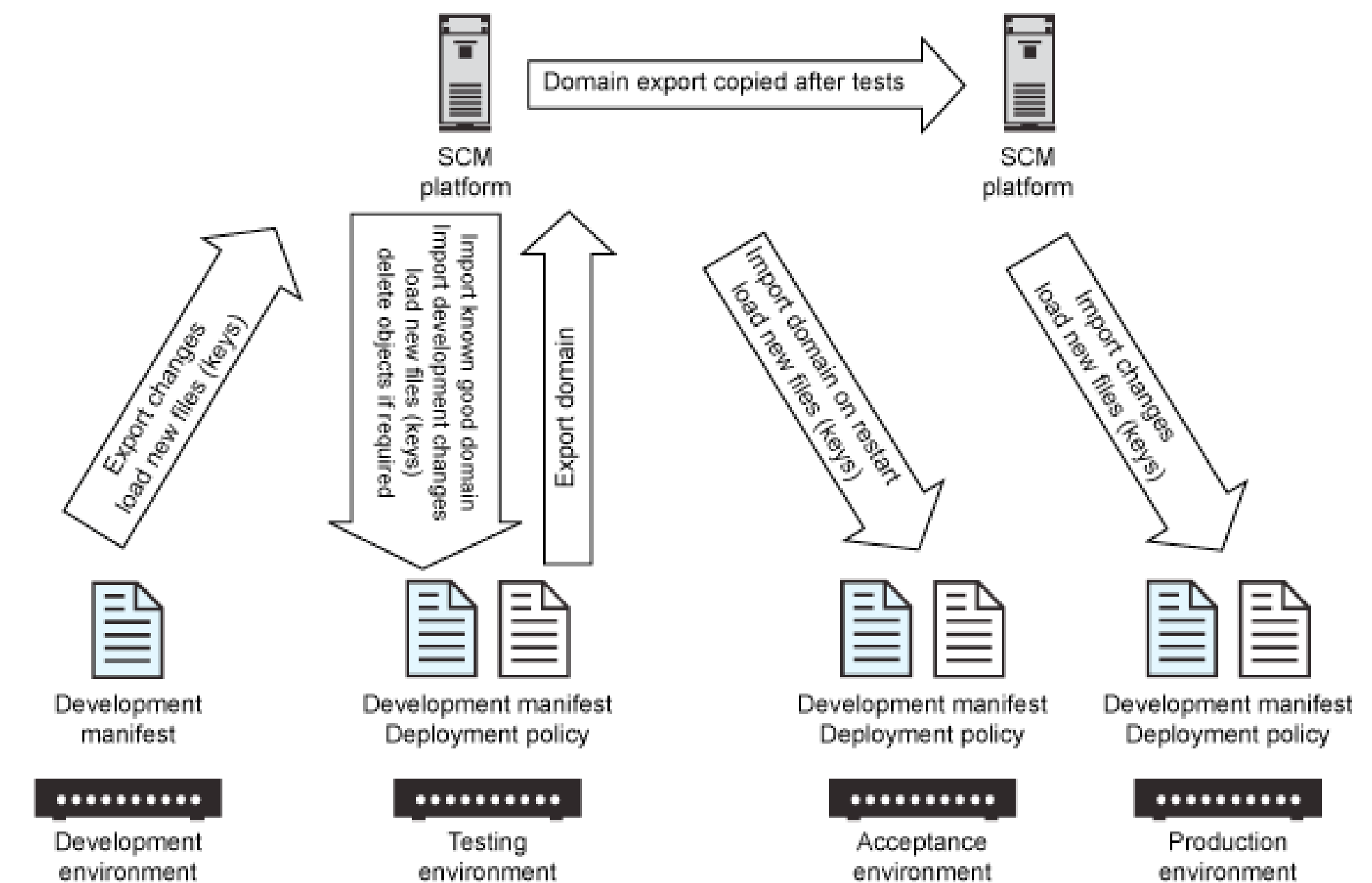
DataPower configuration is persisted on a file system or remotely with logical separation (domain)

Programmatically modify configuration using:

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

Manage environment/domain specific configuration:

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

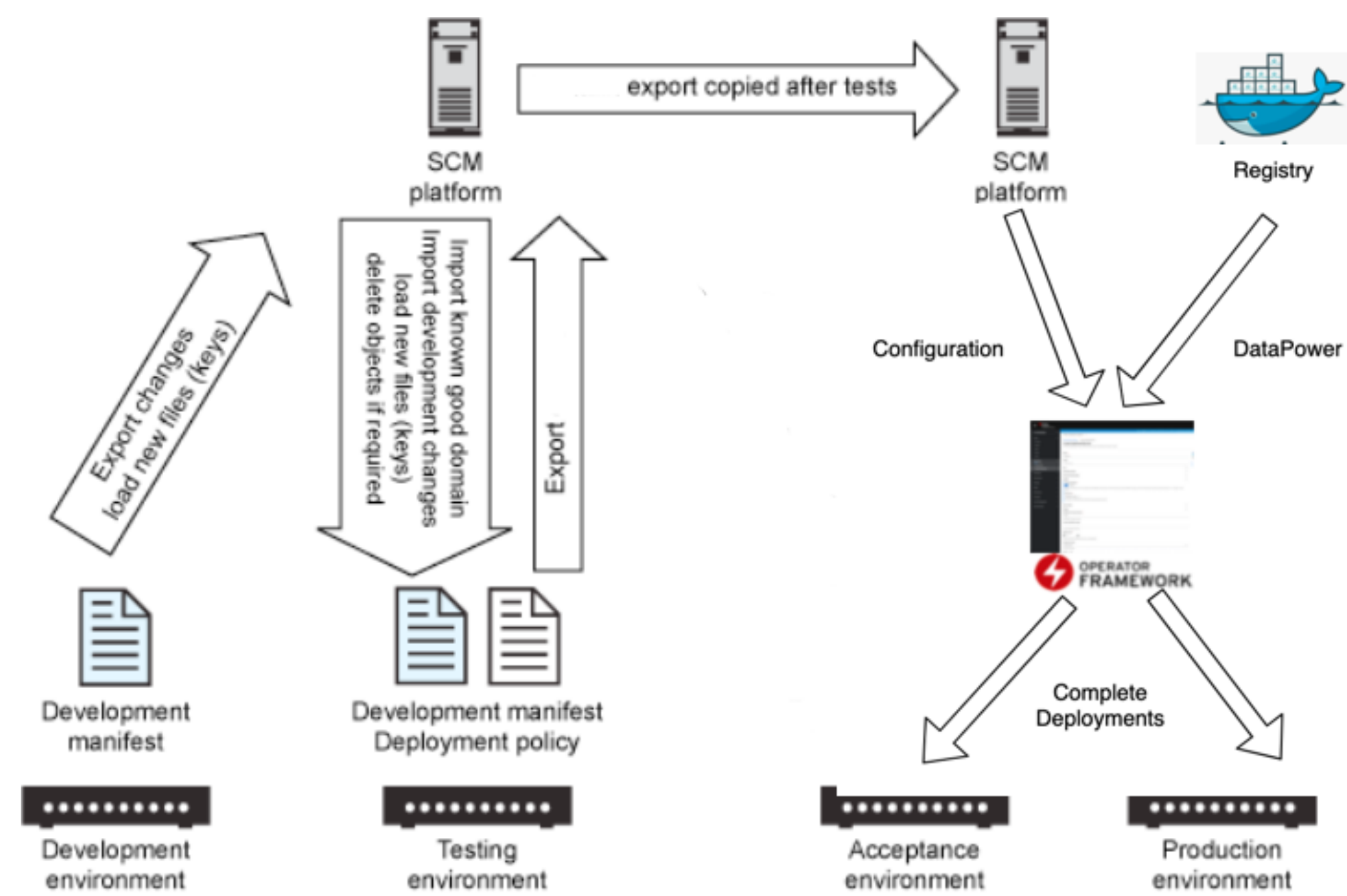


# DevOps – Manage Gateway Configuration optimized for platform

For public clouds with containers

DataPower configuration is built from your current configuration or other DataPower

Configuration information integrated with DataPower image using Redhat OpenShift Operators and deployed



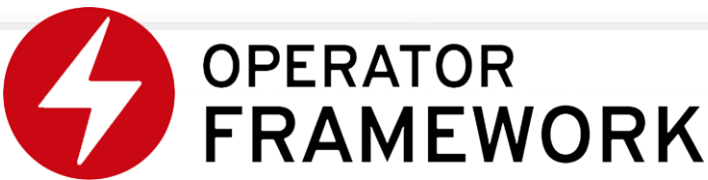
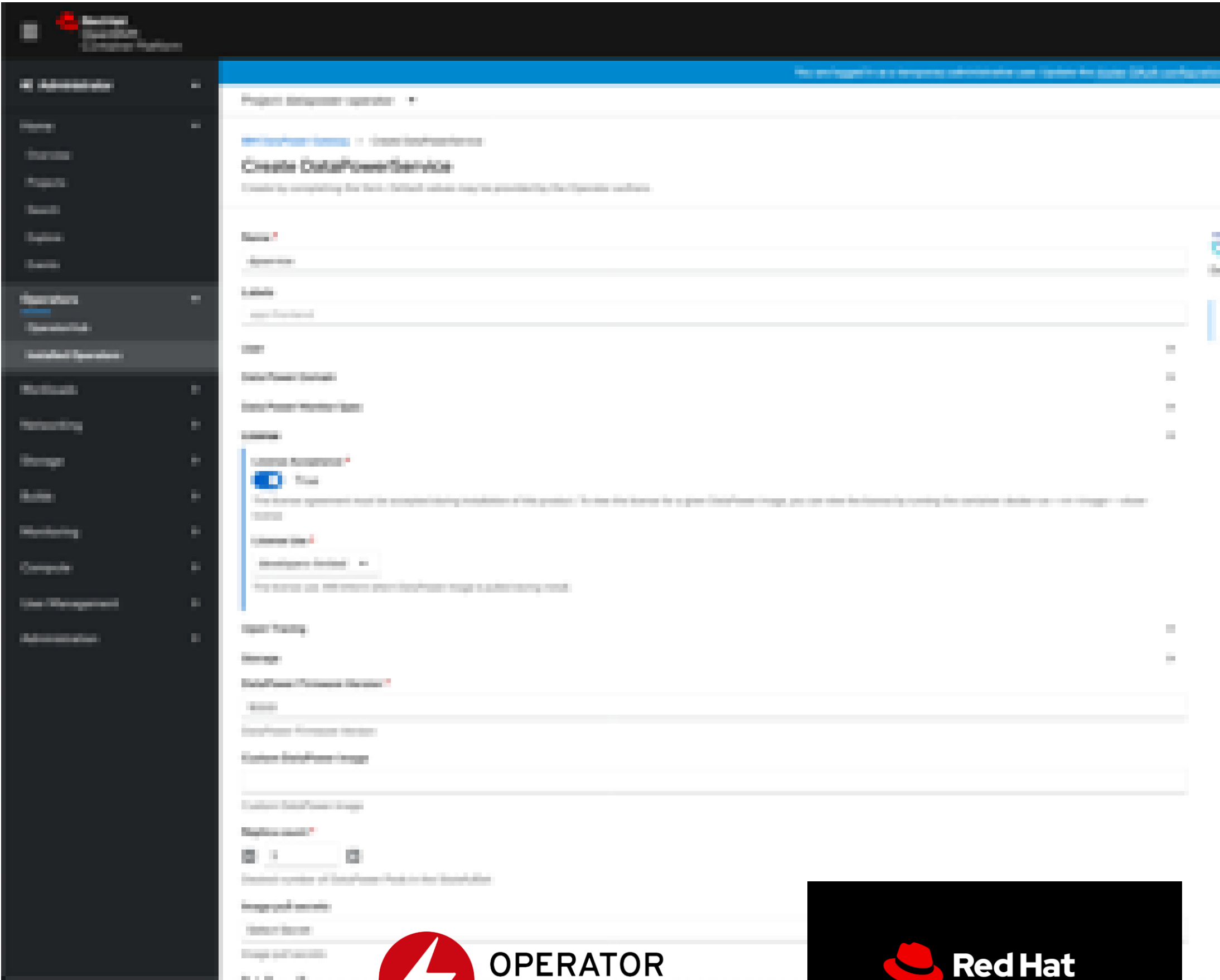
# RedHat OpenShift Operators

DataPower extends the vision of containerized deployment with its support for RedHat OpenShift Operators. Operators ease deployment and management by combining a simplified administrative user experience with an automated deployment and monitoring system

**Containerized** DataPower Deployments

**Simplified** General Gateway Configuration

**Streamlined** DataPower Operations Management



# Get Started with DataPower in Public Cloud

## **DataPower Virtual to compliment your existing DataPower Gateway and DataPower Gateway X2**

- Full production level DataPower Virtual restricted for deployment into any public cloud (eg. AWS, Azure, IBM Cloud,...)
- Up to 560 PVU's (8 cores / VPC's) for each physical DataPower Gateway under active support
- Deeply discounted offering restricted to running DataPower Virtual on any cloud running on VMWare, RHEL or Containers

**For more information and pricing details, contact your IBM Representative or authorized IBM Business Partner**

**If IBM or Business partner contact is not known, contact Steven Cawn, [scawn@us.ibm.com](mailto:scawn@us.ibm.com)**

# Additional IBM DataPower Promotion

## **DataPower Virtual to DataPower Virtual Enterprise Edition Trade Up**

- Provides simplified packaging and DataPower Operations Dashboard support
- Enables trade of existing Production or non-Production license to Enterprise Edition
- For Production Edition, includes credits for previously purchased optional modules (Integration, B2B, Application Optimization)
- Discounts based on previous purchase history
- Available for customers with active Service and Support agreements

**For more information and pricing details, contact your IBM Representative or authorized IBM Business Partner**

**If IBM or Business partner contact is not known, contact Steven Cawn, [scawn@us.ibm.com](mailto:scawn@us.ibm.com)**



Thank you