

# IBM Transforms and Automates Winning DevOps

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## Highlights

- Increase application quality, accelerate development
- Near instant virtual database copies
- Self-service data refresh
- Minimal storage requirement
- Test in the cloud

## IBM Enabled Transformation: Simplicity is Power and Speed

Exceptional Information Technology changes have always caused disruptive adjustments that create, overhaul, or demolish business models. Now, new approaches are essential to develop and speed the release of higher-quality applications.

IBM InfoSphere Virtual Data Pipeline (VDP) provides automated tools to help swiftly achieve DevOps goals by accelerating data delivery, automated test data management, application development, and deployment cycles. The results overcome the common challenges in Speed, Quality, Control, & Cost.

## Challenges in Application Development and Release Cycles

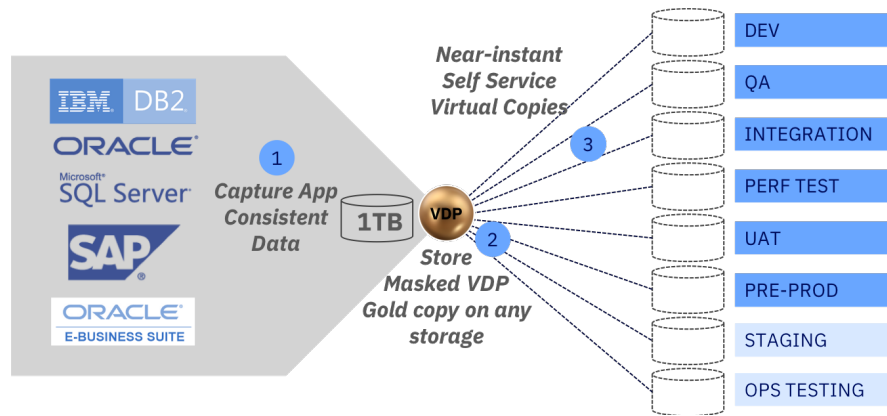
**SPEED** - Typical complex development processes include multiple time-consuming steps that delay progress before productive work can begin.

**QUALITY** - Product quality suffers when Development and QA engineers are unable to test without the proper data early in the development cycle.

**CONTROL** - Once organizations devise a process to create production data set copies, operations teams struggle to include audit trails or Role-Based Access Controls (RBAC) that govern who has data access.

**COST** - Typical development and test approaches create multiple physical production data set copies. The result is massive storage and staff expense, with increased infrastructure and operational overhead.

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### IBM InfoSphere Virtual Data Pipeline for Test Data Management

## IBM InfoSphere Virtual Data Pipeline

### Capture – Manage – Use

IBM InfoSphere Virtual Data Pipeline (VDP) technology delivers application-centric, SLA-driven automation to DevOps.

- Decouple data management from production infrastructure.
- Simply and efficiently virtualize data copies for application development.
- Manage all data through one comprehensive platform and a single golden production data copy.
- Self-service access to individual, masked, any point-in-time data copies.
- Radically simple capture, manage, and use of data.
- Faster time to market at reduced cost.

**Capture a Golden Image** - IBM InfoSphere Virtual Data Pipeline efficiently captures a Golden Image data copy.

**Manage Virtual Data** - VDP manages a point in time full virtual copy that can be synthesized, duplicated and refreshed almost instantly.

**Use Immediately** - Applications can immediately use point-in-time copy data for multiple use cases without a traditional copy operation.



AUTOMATED  
PROCESSES

Workflows



SELF  
SERVICE

Roles-Based  
Access Controls



SPACE  
EFFICIENT

Data  
Virtualization



UP-TO-DATE  
COPIES

On-Demand  
or Scheduled



UNIVERSAL  
COVERAGE

Databases,  
Hypervisors,  
OSs, Physical  
or Virtual

## IBM InfoSphere Virtual Data Pipeline Benefits

### IBM InfoSphere Virtual Data Pipeline Benefits

**Accelerated time-to-market:** DevOps and test data management automation enables continuous integration and delivery. Organizations release new software faster.

**Infrastructure savings:** Virtual copies are storage efficient, ensuring significant storage savings.

**Time savings:** Automation for data refresh, data masking, role-based access control, database customization, and integration to ensure significant cross-functional time savings.

**Reliable releases:** Testing can be performed on virtual copies of production data-sets.

**Improved product quality:** Bugs are caught early in development to improve quality and accelerate application life cycles.

**Sensitive data control:** A single Golden Copy with role-based access controls and integrated masking reduces risk exposure.

**Universal coverage:** A single platform for the entire virtual, application, and database layers means flexibility, easier administration, lower costs, and avoidance of additional point-tools and infrastructure silos.

**DevOps pipeline integration:** VDP integrates easily with a range of automated DevOps tools through an open REST API. Utilizing VDP with IBM InfoSphere Optim Test Data Orchestrator provides for full virtual copy databases as well as highly subsetted data as required.

**Remote development:** Secure and efficient remote development is achieved through replication optimization, continuous updates, and automated data masking.

**Customer satisfaction:** Improved product quality and predictable roadmap execution lead to very high customer satisfaction and loyalty.

## Why IBM?

### **IBM InfoSphere Virtual Data Pipeline**

Business pressures will continue to push developers, QA, and IT to run faster, release error-free software more quickly and respond more rapidly to the dynamic needs of the market. IBM InfoSphere Virtual Data Pipeline technology decouples data from infrastructure, enabling dramatic improvements in business agility, and access to the cloud. VDP replaces siloed data management applications with a radically simple, application-centric, SLA- driven approach. It lets users capture data from production applications, manage it more economically, and use it when and where they need it. In conjunction with other IBM InfoSphere Optim Solutions, users can mask, fabricate, and ensure complete test data coverage. IBM offers the Optim suite to help organizations speed time to market and ensure compliance across the testing cycle.

## For more information

To learn about IBM InfoSphere Virtual Data Pipeline, please contact your IBM representative or IBM Business Partner, or visit the following website: <https://www.ibm.com/us-en/marketplace/infosphere-virtual-data-pipeline>

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