

# VMware vFabric™ Data Director and Postgres Accelerator

Enabling Database as a Service

IDC predicts that private clouds will mature and dominate the enterprise infrastructure software agenda in 2011. One of the key building blocks of the private cloud is Database-as-a-Service (DBaaS). VMware, the global leader in virtualization and cloud infrastructure, offers advanced technologies and products to fundamentally simplify how the database is managed, consumed, and virtualized in the cloud. VMware vFabric™ Data Director is a self-service database provisioning and operations software solution that enables DBaaS for private clouds.

Data Director can manage thousands of databases while offering application developers self-service database management. Using the powerful web-based console, developers can self-provision, clone, snapshot, and back up databases while IT administrators enforce corporate policies and maintain full control of company data. Self-service capabilities and automation reduce database complexity and provide developers with the benefits of public cloud services within the security of a private datacenter.

The first database supported on Data Director is VMware vFabric™ Postgres® 9.0 (vPostgres), a new offering from VMware based on and fully compatible with PostgreSQL. vPostgres is a VMware vSphere®-optimized ACID and ANSI-SQL relational database and is the first of a broad range of open source and commercial databases to be supported by Data Director.

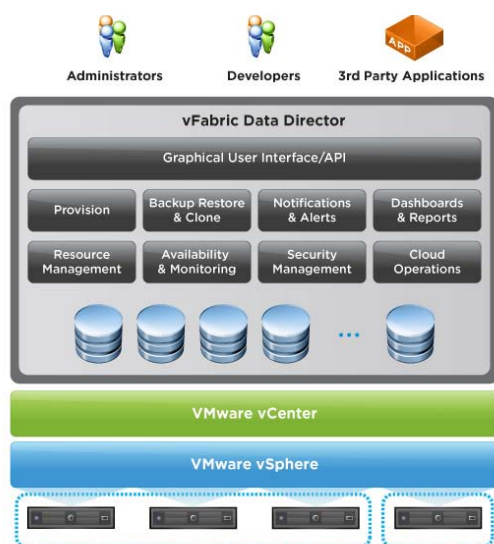


FIGURE 1: vFabric Data Director Overview

## vFabric Data Director and Postgres Accelerator Service

The vFabric Data Director and Postgres Accelerator service is a fixed price, fixed scope consulting engagement. In this five-day engagement, VMware consultants will provide customers with a proof of concept, non-production installation and configuration plan for Data Director and Postgres. This engagement is limited to a single use case and one customer-selected database.

### Scope

This service includes four phases:

- Phase 1: Engagement Kickoff, Customer Requirements and Knowledge Transfer
- Phase 2: Non-production Installation and Configuration
- Phase 3: Deploy One Customer Use Case
- Phase 4: Engagement Conclusion

### Phase 1 – Engagement Kickoff, Customer Requirements and Knowledge Transfer

The vFabric consultant will identify customer requirements and related database provisioning and management needs in connection with customer infrastructure and applications in virtualized and cloud environments. The vFabric consultant will provide one day of knowledge transfer on vFabric Data Director and vPostgres. Activities in this phase include the following:

- Project Kickoff – Discuss and define engagement goals and requirements (onsite or via conference call)
- Requirements gathering and stakeholder interviews – Onsite customer business, technical, and operational requirements gathering
- Review of Data Director and Postgres Accelerator Service delivery plan and process

The consultant will provide one day of knowledge transfer on vFabric Data Director and vPostgres fundamentals. Customer-selected Data Director and Postgres topics may be included time permitting.

### Deliverables:

- Data Director and Postgres Accelerator Service delivery plan and process
- vFabric Data Director and vPostgres product overview, knowledge transfer, and best practices

**Phase 2 – Non-Production Installation and Configuration**

Consultant will provide non-production installation and configuration of vFabric Data Director and Postgres within existing vSphere 5 cluster. In connection with one customer use case, configuration will include creation of one organization, three (3) database groups, three (3) roles with associated users, and one (1) vPostgres database. Consultant will identify customer participants and specify datacenter access required to complete non-production installation and configuration.

Deliverables:

vFabric Data Director and Postgres installation and configuration procedures in connection with customer-specific architecture

**Phase 3 – Customer Use Case Implementation**

Customer is responsible for providing SQL scripts to create the schemas. vFabric Consultant will create the application schemas within the vPostgres Database using customer provided scripts. The test schema is meant to prove connectivity and relative ease of migration. This schema is limited to less than ten (10) tables with no more than two (2) indexes per table.

- Customer must provide delimited data files for loading. Consultant will load application data from a staging server. Data size is limited to five (5) gigabytes of data.
- Consultant will establish connectivity between existing application and vPostgres database. Application must be capable of connecting to a Postgres database via JDBC, ODBC, or LIBPQ interfaces.
- Consultant will demonstrate vFabric software administration tools and the capabilities of these tools with respect to:
  - Managing the vFabric Data Director environment
  - Creating and cloning databases
  - Backup and restore databases
  - Performance of a variety of regular database management activities
  - Viewing hardware failure status
  - Viewing recoverability status
  - Viewing operating statistics

Deliverables:

- Review of use case delivery steps and procedures
- Summary of use case configuration
- Demonstration of vFabric software administration tools

**Phase 4 – Engagement Conclusion**

In the final phase of the engagement, the consultant will prepare the final draft and complete the final review of vFabric Data Director and Postgres Accelerator Service deliverables. The consultant will recap project goals and successes, explore and define further opportunities, discuss next steps

Deliverables:

- Written summary of best practices for non-production installation and configuration of vFabric Data Director and Postgres Accelerator Service
- Final Draft review of service deliverables
- Project Summary

**Scope and Pricing**

This is a fixed price, 5-day service engagement delivered by a VMware consultant. For specific pricing information, contact your local VMware services sales representative.

SKU: CON-S2-DATADIR-ACL

**Customer Prerequisites**

**Software Requirements**

- vSphere 5.0 (includes VMware ESXi™, VMware vCenter Server™, VMware vSphere Client™)
- vFabric Data Director
- vFabric Postgres
- Tools and drivers provided by VMware
- Flash Player 10.1+
- Browsers: Firefox 3.6+; IE 7+

**Hardware Requirements**

Minimum Requirement	Recommended
Two (2) ESXi servers, with combined 12GB of RAM	Four (4) ESXi servers, with combined 64GB of RAM
One (1) vCenter server (can be a virtual machine)	One (1) vCenter Server
One (1) machine for vSphere Client	One (1) machine for vSphere Client
40GB of shared storage, configured as two (2) datastores	500GB of shared storage, configured as two (2) datastores
Two (2) + n* Gigabit Ethernet VLANs	Three (3) + n* Gigabit Ethernet VLANs
Hardware to run test application	Hardware to run test application

\* n = the number of networks used for SQL connections to databases

vSphere Configuration Requirements (See *vSphere 5.0 Installation and Setup Guide* for details)

- Two (2) 4-Gigabit Ethernet VLANs to carry Data Director network traffic
- One (1) or more Gigabit Ethernet VLANs for one or more database networks to carry SQL traffic to and from Data Director databases
- VMware vSphere HA with Application/VM Monitoring and vSphere Distributed Resource Scheduler (DRS) enabled
- Network Time Protocol (NTP) enabled
- Firewall ports open between VLANs as described in the the vSphere 5.0 *Installation and Setup Guide*

### Out of Scope

- Assessment of applications/administrative dashboards is out of scope.
- Application packaging is out of scope.
- This service provides for loading of a small amount of data, not to exceed five (5) gigabytes, to test the application. It does not provide for large scale application data migration, creation of data to be loaded, or data cleanup.
- The test schema is meant to prove connectivity and relative ease of migration. This schema is limited to less than ten (10) tables with no more than two indexes per table.
- Schema scripts may include Functions, however debugging or PLPGSQL script creation is beyond the scope of this service.

### Customer Responsibilities and Assumptions

- Conference room with projector, whiteboard, access/permissions to Internet
- Up to five (5) dedicated customer participants. Typically, but not limited to:
  - IT Management
  - Infrastructure Architecture Team (specifically, a VMware Administrator)
  - Software Architecture Team
  - Application Development Team
  - IT Operations Team (specifically, a Network Administrator)
- Adherence to or completion of items detailed in the Pre-Engagement Customer Responsibilities Checklist and Customer Prerequisites section of this datasheet
- Admin privileges as needed for installation and configuration of vFabric Data Director and Postgres
- Application owners need to be accessible as needed during configuration

### About VMware Professional Services

VMware Professional Services, the largest services organization of experienced IT professionals focused solely on virtualization, provides industry-leading consulting, education, and technical account manager services that enable customers to transform IT environments through virtualization and realize greater value from flexible, agile IT service delivery models sooner, with less risk.

For more information about VMware Professional Services, contact your local VMware sales representative or visit [vmware.com/services](http://vmware.com/services).

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