

VMware vFabric™ GemFire® Accelerator

Overview

As applications become increasingly web-oriented, data-intensive, and more dynamic, the need for new approaches to data management grows. While first-generation web applications could tolerate time-consuming round-trips to store and retrieve data from a database, today's applications require a different approach—one that is suited to data-intensive, dynamic environments and accommodates deployment on top of virtual infrastructure. This new environment of massive, dynamic data amid virtualized infrastructures presents difficult data challenges for IT:

- How to scale out data supply in a cost effective way to meet demand with dynamically shifting user load?
- How to maintain the high performance regardless of load?
- How to make sure data remains highly reliable?
- How to provide data across geographies?

VMware vFabric GemFire is a distributed data management platform providing dynamic scalability, high performance, and database-like persistence critical for today's applications. VMware GemFire provides the data management capabilities of a database with the performance that only in-memory data can provide.

VMware GemFire Accelerator Service Overview

The VMware vFabric™ GemFire® Accelerator Service provides a non-production (for example, development or test) GemFire installation and configuration, initial high-level architecture using customer applications, infrastructure and use cases, and knowledge transfer of GemFire best practices. This is a fixed price, fixed scope engagement.

Engagement Activities

In this service, the customer is introduced to the concepts of efficient data access and data management, GemFire product fundamentals (features and functions), and the process of data management. VMware Consultants will install and configure a non-production instance of GemFire and applicable bundled tools (GemFire Monitor and GemFire Data Browser). See Table 1 for complete activity list and description. Engagement duration is ten (10) days.

Scope Limitations and Constraints

The engagement scope is limited as follows:

- Non-production installation and configuration of GemFire over not more than three (3) networked hosts in total and limited to:
 - Two (2) peer-to-peer distributed systems with ten [10] members in total (one primary and the other secondary composed of five [5] members [data management nodes] each)
 - One multi-site gateway configuration with two (2) gateway end points (primary and secondary) between the two distributed systems.
- Up to five (5) edge clients (application cache nodes)
- One multi-site gateway configuration with two (2) gateway end points (primary and secondary) between the two distributed systems.
- Two (2) GemFire agent instances (one agent instance per distributed system)
- Four (4) GemFire locator instances (two locator instances per distributed system)
- High level architecture development limited to two (2) use case scenarios
- The number of customer participants is limited to five per session (however, the participants can be different across sessions) with all participants onsite at the same location.

Table 1: Engagement Activities

Activity	Description
Onsite Project Kickoff Meeting	<ul style="list-style-type: none"> Discuss the project and its key requirements (functional and non-functional) with project team and core stakeholders Identify two core use cases for the engagement
Hands-on Product Workshop	<ul style="list-style-type: none"> Demonstrate the core product features Provide customer participants with hands-on product use to build familiarity with product features, functions, and associated tools
Requirements Gathering	<ul style="list-style-type: none"> Identify functional and non-functional requirements of the project Gather customer preferences to identify the GemFire focus areas and best practices for the identified use cases
Initial Architecture Development	<ul style="list-style-type: none"> Design a recommended GemFire topology Identify key data flows and GemFire customization and extension points for identified use-cases
Product installation, configuration and validation	<ul style="list-style-type: none"> Develop configuration to support the data flows Perform a guided installation and deployment of GemFire on the three network target hosts Validate the deployment via test data flows
Best Practices Review	<ul style="list-style-type: none"> Provide best practices review of product customization and deployment relevant to the identified use-cases
Project Close Out	<ul style="list-style-type: none"> Discuss project outcomes, findings and recommendations; present and outline next steps

Project Deliverables

- Non-production installation and configuration of GemFire in a non-production (for example, development or test) customer environment based on the developed initial high-level GemFire architecture design
 - Limited to vFabric GemFire Data Management (ten members [data management nodes] in total over two (2) peer-to-peer distributed systems) and total of five (5) edge clients (application cache nodes) licensed by customer on supported platforms)
- Initial high-level architecture (vFabric topology and configuration) for up to two selected customer use cases.
- Guided development setup of GemFire vFabric instance(s) and bundled tools (GemFire Monitor (GFMon) and GemFire Data Browser Tool (Data Browser)).
- Knowledge transfer workshops of best practices for integrating GemFire into an application and customer's datacenter (includes installation, configuration, code-level API, and requirements for integrating GemFire into customer's infrastructure)
- GemFire Data Management Configuration and Topology documentation for the selected use case(s)

Customer Requirements

- Dedicated customer participants (up to 5) with dedicated workstations (minimum of 2GB RAM) for hands-on sessions
- Customer must have the required WAN gateway and appropriate client-server licenses. In the absence of the licenses for any GemFire product components, the installation will cover only those components that are licensed (subject to the constraints listed in Scope Limitations and Constraints above).
- Conference room with projector, whiteboard, power supply and Internet access for laptops.
- Network access and access/permissions to customer servers targeted for installation, configuration, initial high-level architecture

- Dedicated machines (three hosts) with resources for GemFire components to run on, containing supported operating system(s); no firewall or network restrictions between the hosts as defined during requirements gathering phase
- Sufficient user security privileges for successful installation, configuration, and architecture delivery
- Application owners must be available as needed during GemFire configuration
- External data source(s) access as required (for example, Database, Message broker access)
- Completion of items detailed in Pre-Engagement Customer Responsibilities checklist

Pricing

This is a fixed scope, fixed price engagement; price includes travel and expenses.

- SKU: CON-S2-GEMFIRE-ACL

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