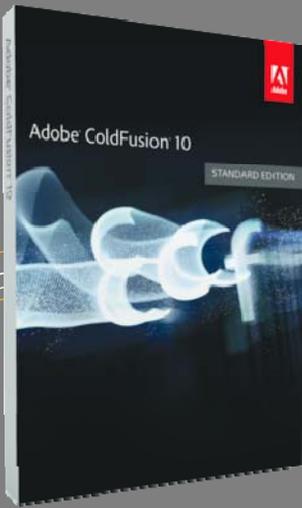


Multiply Your ColdFusion Capability by Clustering



ColdFusion Clustering

ColdFusion clustering capabilities is applicable in every ColdFusion Enterprise License. It is Unlimited!.

Why Clustered

Why not!, we can assist you to enable the functionalities which you already purchased.

Clustering in Single Server

To do clustering doesn't mean you need to spend a lot of money to double your physical server, purchase load balancer. ColdFusion also can be clustered in a single physical server.

Clustering will maximize return on your investment by:

Improved Scalability: Optimize capabilities of ColdFusion application to handle more users.

Higher Availability: Minimize your ColdFusion application downtime.

Greater Flexibility: The ability of clustering to present a virtual unified computing resource provides IT personnel with more options for configuring the infrastructure to support application performance, availability, and scalability requirements.

Improved Network Performance: Cluster servers offer a considerable improvement in the performance of the network in terms of speed and reliability. The performance improves because the work load is distributed across multiple servers. This helps businesses acquire a more professional, better image.

Business Continuity: With cluster servers, your business' network applications are not dependent on one server. When one server fails, you get the necessary support from the other servers. Availability is one of the biggest advantages of cluster servers.

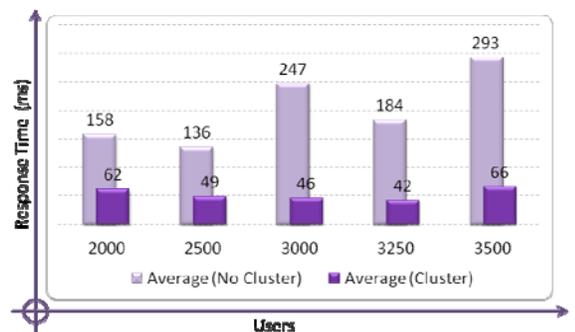
Easy maintenance: Maintenance is very easy with cluster servers. You can switch one server off while others work. This ensures that your network applications are always available.

Easy Configuration and Management: Cluster servers are easy to configure and manage, not taking up much time on many resources.

WHAT IS CLUSTERING

In essence, clustering means combining two or more resources (members) so that they appear as a single resource. The main reasons for clustering are redundancy, so that failure of one resource does not result in the failure of the application and scalability, which enables an application to handle more users as traffic increases by adding cluster members. One other important benefit in clustering ColdFusion is encapsulation. Encapsulation enables you to keep discrete applications or processes in their own dedicated instance. This might be done for security reasons or to segregate load intensive processes such as scheduled tasks. These two principle needs are addressed by clusters that support failover and load balancing.

CLUSTERING RESULT



This is actual result taken from JMeter test at client site.
By clustering, response time has improved averagely by

70%

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ColdFusion Clustering Benefits

1) JVM Resources (on 32 bit machines in particular) - Due to contiguous memory limitations on 32 bit operating systems we can effectively only set the maximum heap size to 1.2GB, setting it higher can cause instability. By creating multiple instances and clustering them we gain access to more system resources; in this case each instance can have 1.2GB. Obviously we have to pay attention to overall RAM on the system but in most cases we could at least double our resource availability by clustering ColdFusion instances. We also recommend that the Round Robin with Sticky

2) Slow Running Code - Sometimes there is code in an application that runs infrequently and for some reason cannot be re-factored but which causes slowness whenever it is running, examples might be calls to external services which always run slow. Having two or more instances clustered can mitigate this to a certain extent as if this is infrequently running code the chances of impacting every user on your site is reduced. As a note point, the best way to deal with this situation is to encapsulate it into its own instance(s).

System Requirements

- ColdFusion 8, 9 and 10 Enterprise Edition
- Windows 2003/2008 or Linux
- Minimum 16 GB Server RAM

Why Us?

- ✓ We have successfully implemented Enterprise Clustering ColdFusion Environment in one of the largest universities in Malaysia
- ✓ We are specialized in ColdFusion Technology with more than 30 applications built by us.
- ✓ We are experienced in delivering complex and difficult projects on time, on budget and on the mark.

Other services available

- Software Development
- System integration
- Maintenance
- Application Support
- Hardware Support
- IT Auditing

Available products

- Electronic Content Management System (ECMS)
- Asset Management System
- Road Maintenance Monitoring System
- Warehouse Management System



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