**Cluster Topologies**

**Cluster will carry group of servers to achieve high availability(fail-over), load balancing, session replication.**

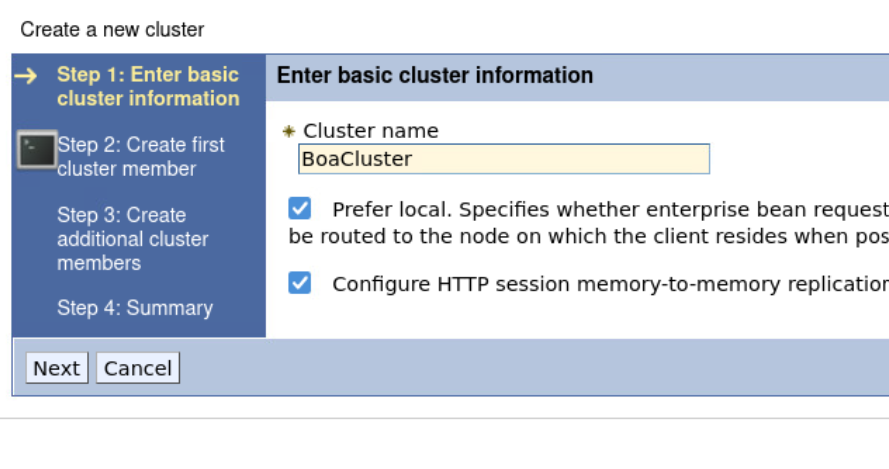
**Vertical Scaling**  
  
If a cluster is a collection of JVMs working together to provide a workload managed environment, then ,vertical scaling, happens when each of those JVMs are running on the same physical machine.

Note: Dmgr, all ApplicationServer(base servers) are in the Same Physical machine

**Horizontal Scaling**  
  
Horizontal scaling occurs when you deploy an application across multiple physical machines. Horizontal scaling is traditionally what we think of when the term workload management is thrown around.  
  
WebSphere makes implementing horizontal scaling incredibly easy. The first step is to install the base edition of WebSphere onto a couple of different machines, and then install the Deployment Manager on another machine. Make the base editions part of the deployment managers administrative domain, and then use the administrative console to create a cluster.

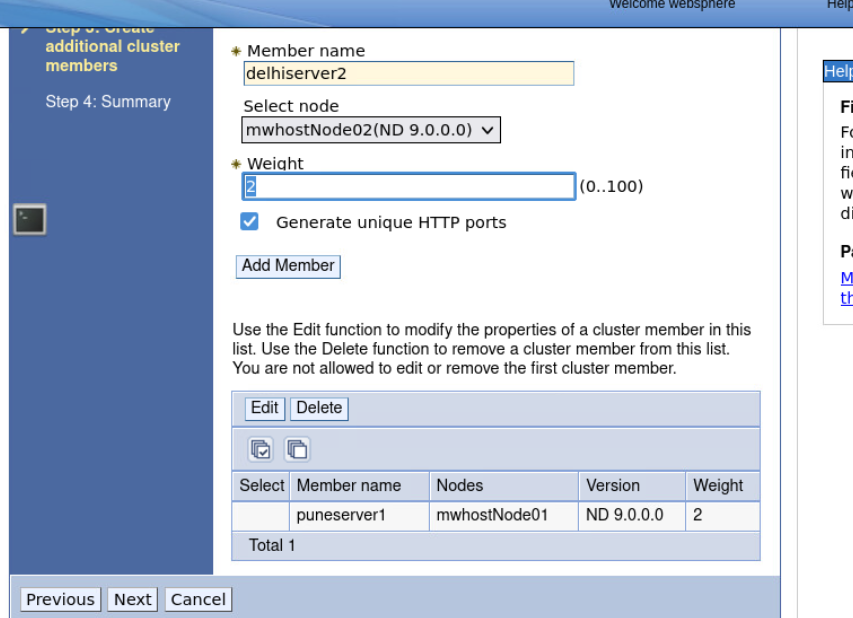
Note: Dmgr, all ApplicationServer(base servers) are in the multiple Physical machine

Cluster creation



A screenshot of a computer

Description automatically generated



A screenshot of a computer

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