

USING MOSMB WITH DOCKER SWARM

Futuristic SMB3 stack for forward thinking companies

MOSMB (SMB WITH MOJO) IS RYUSSI'S ADVANCED SERVER MESSAGE BLOCK (SMB) SERVER COMPONENT LIBRARY OFFERING FOR THE DATA STORAGE MARKET TO ENABLE FILE SHARING IN A HETEROGENEOUS ENVIRONMENT THAT INCLUDES BOTH WINDOWS AND NON-WINDOWS COMPUTERS.

Containers have changed the world of application deployment. The ease and speed at which containers offer for provisioning of applications and infrastructure has made them very popular. In keeping with the needs of modern IT applications and infrastructure, MoSMB also supports containerized environments. By using MoSMB, one can solve the problem of persistence and portability for container storage.

Storage can be exposed to the containers via an infrastructure specific mechanism – such as Docker volumes. These Docker volumes can be directories or other mounted file systems for instance including remote file systems mounted from other file servers over SMB protocol.

To run MoSMB inside a container all that one has to ensure is the all the dependent tools and libraries with the correct versions are available. This can be taken care of at the level of the installer.

Specializing to the case of Docker, it would be possible to have 15-20 Docker based containers running together on a fairly well provisioned machine with say 48 GB of RAM and a strong processing core. When equipped with sufficient storage, the storage can be apportioned into many directories mapped to volumes and exposed via MoSMB servers running inside the containers. Note that a directory can be shared

between containers and used as a persistent shared volume to simulate a cluster shared resource in this model.

This approach will allow large clusters of MoSMB servers to be simulated with a light weight setup.

DOCKER USE CASES

The different use cases supported by MoSMB for Docker containers include:

DOCKER IMAGE REPOSITORY

- Ease of installing, running and securing Docker images for Docker container clusters.
- Centralized, application-consistent backup of live images and application data supported by SMB RVSS remote snapshot capability

PERSISTENT, PORTABLE STORAGE FOR CONTAINERS

- Makes it possible to provide access to external shared persistent storage by mounting MoSMB shares

MOSMB AS A CONTAINERIZED APPLICATION

- MoSMB can be containerized and this facilitates provisioning of scale out MoSMB clusters.
- MoSMB data volume container acts like an internal dormant Docker MoSMB server, providing data access to containers from a central mount point.

To know how MoSMB can be deployed as Docker, please contact sales@ryussi.com