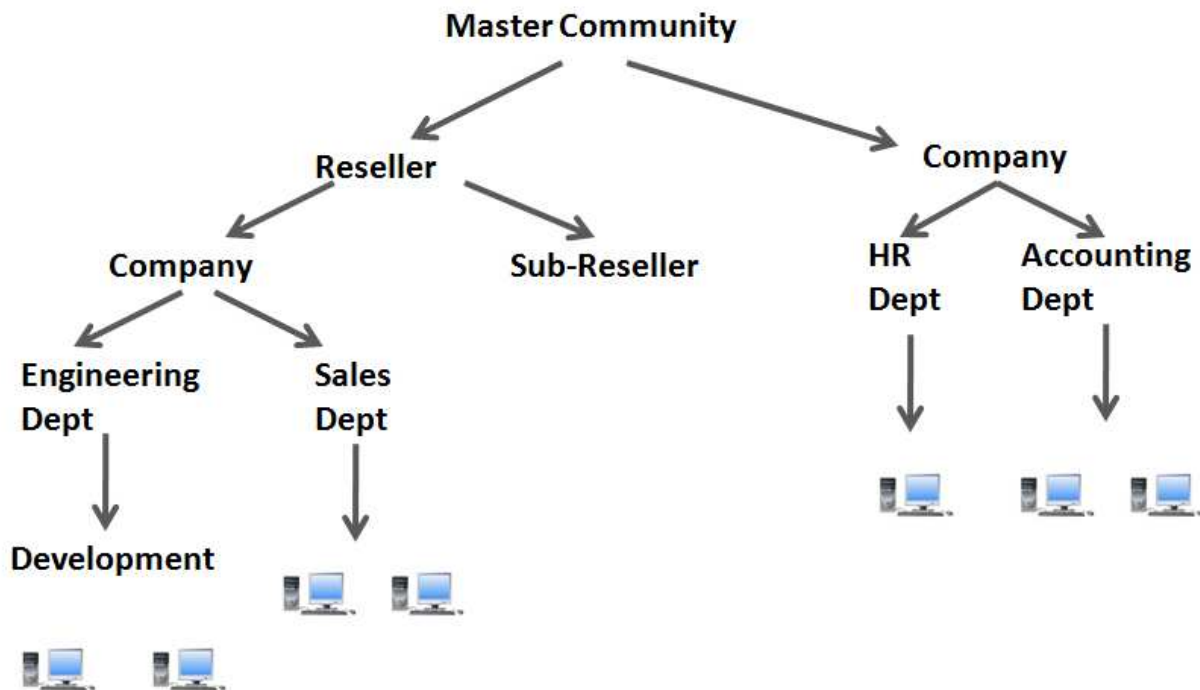# RingStor Cloud – Multi-Tenancy

RingStor Multi-Tenancy

RingStor Cloud is a multi-tenant cloud backup system. Each tenant is represented by a Community in RingStor Cloud. Each community has its own administrator login, agent users, file versioning and retention, etc. The administrator of a Community may create one or more sub-communities, while each sub-community inherits parent's settings, but can also customize based on each sub-community's requirement. There is no limit on how many levels the communities can be built.

The communities in RingStor Cloud are shaped like a pyramid: Master Community is created when RingStor Cloud is installed and administrator in Master Community can manage all communities. Any community created will be under Master Community in pyramid:

The management permissions are top-down as shown in the picture above.

Data Storage in Multi-Tenant System

In RingStor Cloud, MountPath is the storage for all backup data. The MountPath can be created at different community level, where the community and all its sub-communities can access to the MountPath(s) to store the backup data.

Shared Data Storage:

A typical configuration setup is that all MountPaths are created by Master Community administrator, thus all communities will store their backup data among these MountPaths.

Dedicated Data Storage:

In a scenario where the community requires to store its own backup data at a dedicated MountPath, while no other sibling community can access, administrator can create MountPath and put it into this community's MountPath Pool.

Backup in Multi-Tenant System

In RingStor Cloud, DataServer is responsible to receive backup data sent from DataAgent, to store the backup data to appropriate MountPath. DataServer is also the main driver for restore, data import and data prune functions in RingStor Cloud.

Shared Backup:

A typical configuration setup is that all DataServers are installed by Master Community administrator, thus all communities will send their backup data to these DataServers in a load balancing manner.

Dedicated Backup:

In a scenario where the community requires a dedicated DataServer(s) for backup, while no other sibling community can access, administrator can install such DataServer with this community's administrator credential to assign this DataServer into this community's DataServer Pool.

Dedicated Backup in Multi-Tenant System

To provide a fully dedicated backup service in RingStor Cloud for a tenant, combine both dedicated data storage and dedicated backup to build a singular sub-system inside RingStor Cloud. Tenant will have full and exclusive access to backup power and storage.