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| Use Case Description | * Create a zone to host a K8s cluster within a composable DC fabric |
| Actors | * Fabric Manager, Resource Manager, Composer, Administrator |
| Description | * Use Redfish Composition to allocate a zone object to define a virtual, private network within a larger fabric |
| Comments | * Ethernet network available for TCP, UDP, SCTP |
| Input Data | * Current Redfish Composition Resource Zones * list of cluster members defined * list of free non-associated members * members that are able to be in multi-zone membership * cluster members security restrictions |
| Preconditions | * Ethernet fabric interfaces state up * Ethernet fabric enabled * Interface MAC addresses * DHCP IP range |
| Postconditions | * Resource zone complete with sane membership connections * List of Zone membership * Zone creation success * MAC address list available for DHCP server |
| Trigger | * Fabric Manager request to create a zone with a certain quantity of members * OFMF parse a Create Zone HTTP request |
| Normal Flow | * Parse the list of cluster members * Query list of non-associated members * Query list of multi-zone capable members * DHCP range of valid addresses * Query list of member’s security-level membership * Using Redfish Composer, create a fabric zone object * Fill in the resources to be contained in the zone * Make symmetric connections? * Read member interfaces * Calculate a new route table * Using Redfish Composer, update the Zone membership * Report Composer Zone success * Update list of associated members * Update list of non-associated members * Post the Redfish zone object to the OFMF’s resource tree * Respond to client with success * Respond to client with Zone Object members * MAC address list available for DHCP server |
| Alternate Flow 1 |  |
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