



What is the
difference between
HA_MODE_SHARED and
HA_MODE_SHARED_PAIR
options available in
Avi CLI?

Avi Technical Reference (v20.1)

What is the difference between HA_MODE_SHARED and HA_MODE_SHARED_PAIR options available in Avi CLI? [view online](#)

Answer:

HA_MODE_SHARED and HA_MODE_SHARED_PAIR are `ha_mode` flags available in Avi CLI under `serviceenginegroup` properties.

```
[admin: Controller-2]: > show serviceenginegroup AA-SE-Group | more
+-----+-----+
| Field | Value |
+-----+-----+
| uuid | serviceenginegroup-a0b73a81- | i3-dfbc72c450b2 |
| name | AA-SE-Group | |
| max_vs_per_se | 10 | |
| min_scaleout_per_vs | 2 | |
| max_scaleout_per_vs | 4 | |
| max_se | 10 | |
| vcpus_per_se | 2 | |
| memory_per_se | 10240 | |
| disk_per_se | 25 gb | |
| max_cpu_usage | 80 percent | |
| min_cpu_usage | 30 percent | |
| se_deprovision_delay | 10 min | |
| auto_rebalance | True | |
| se_name_prefix | | |
| vs_host_redundancy | True | |
| vcenter_folder | | |
| vcenter_datastores_include | False | |
| vcenter_datastore_mode | VCENTER_DATASTORE_ANY | |
| vcenter_clusters | | |
|   cluster_refs[1] | N3K | |
|   include | True | |
| cpu_reserve | False | |
| mem_reserve | True | |
| ha_mode | HA_MODE_SHARED_PAIR | |
| algo | PLACEMENT_ALGO_DISTRIBUTED | |
| buffer_se | 0 | |
+-----+-----+
```

```
| Field | Value |
+-----+-----+
| uuid | serviceenginegroup-5d061595-426f-48bf-9683-a3ca95a5f1dd |
| name | Default-Group |
| max_vs_per_se | 10 |
| min_scaleout_per_vs | 2 |
| max_scaleout_per_vs | 4 |
| max_se | 10 |
| vcpus_per_se | 2 |
| memory_per_se | 2048 |
| disk_per_se | 10 gb |
| max_cpu_usage | 80 percent |
| min_cpu_usage | 20 percent |
| se_deprovision_delay | 120 min |
| auto_rebalance | True |
| se_name_prefix | SE1 |
+-----+-----+
```

```

| vs_host_redundancy | True |
| vcenter_folder     | VM1 |
| vcenter_datastores_include | False |
| vcenter_datastore_mode | VCENTER_DATASTORE_ANY |
| vcenter_clusters   | |
|   cluster_refs[1] | N3K |
|   include          | True |
| cpu_reserve        | False |
| mem_reserve        | True |
| ha_mode            | HA_MODE_SHARED |
    
```

HA_MODE_SHARED option is equivalent to N+M elastic HA option available on Avi user interface. In this mode, each virtual service is typically placed just on one Service Engine, unless the `scaleout-per-vs` setting is changed to 2 or more.

HA_MODE_SHARED_PAIR is equivalent to active/active elastic HA mode available on Avi UI. In active/active HA mode, Avi Vantage places each virtual service on more than one SE, as specified by `min_scaleout_per_vs` parameter. The default value for the parameter `min_scaleout_per_vs` is 2. The value for `min_scaleout_per_vs` is changed through Avi CLI.

If value for the flag `HA_MODE_SHARED` is set to `true` and value for the flag `min_scaleout_per_vs` is set to 2, then HA mode will work like active/active elastic HA mode as one virtual service is placed on more than one SE.

Changing HA modes using Avi CLI

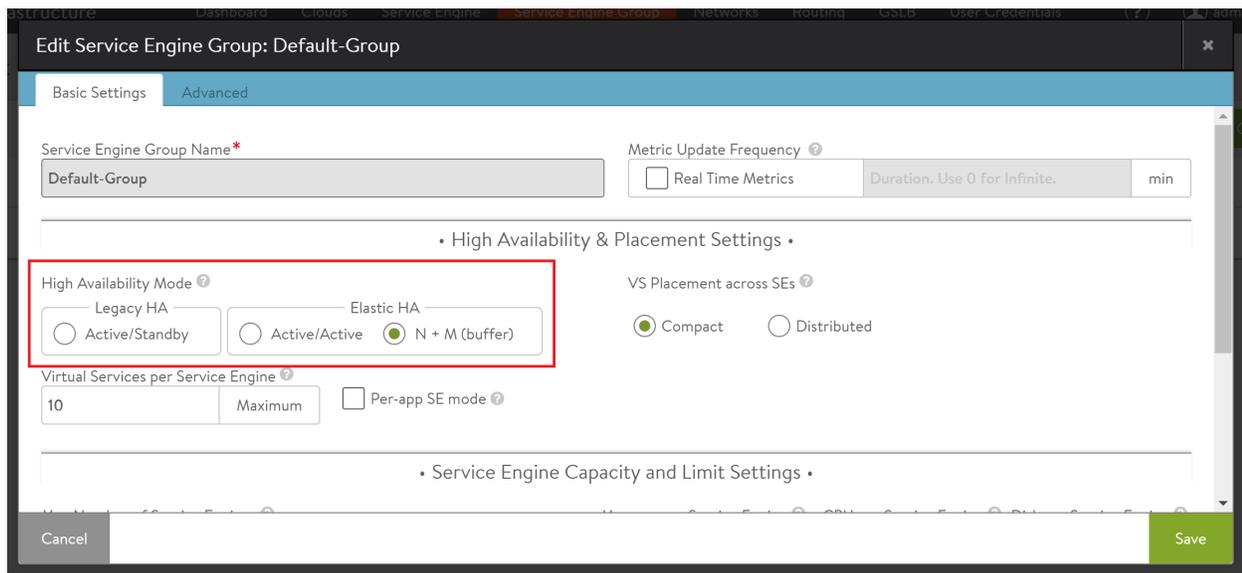
Use `configure serviceenginegroup` option to change HA modes on Avi Vantage.

```

[admin:Controller-2]: > configure serviceenginegroup Default-Group ha_mode
    
```

Changing HA modes using Avi UI

To change HA mode using Avi UI, navigate to Infrastructure > Service Engine Group. Click on the edit icon at the right side to select various options for HA mode, available under High Availability & Placement Setting as shown in the below screenshot.



Note: The virtual service placement setting (compact and distributed) plays a very important role in spinning up SEs.

Additional Information

To know more about virtual service placement options on Avi Vantage and Elastic HA mode for Avi SEs, refer to [Elastic HA for Avi Service Engines](#).