**Note: In case below doesn’t work and app team doesn’t have any use case for spark, we can scale them down using-** [**this doc**](https://hpe.sharepoint.com/:w:/s/CaaSDocs/Eb0xn_tkOUFPqO-R7T68aYsBlMbcaJ30eOQnxSQKReriMA?e=ySL0Bm)

**Reduce Spark Objects Size In ECP**

Spark objects (SparkHS, Hivemeta and Tenantcli) will be created by default with Tenant creation. If there is no requirement of Spark for application team, we can reduce the default sizes of CPU, Memory and Ephemeral Storage of Spark objects with below patch commands.

kubectl get deploy -n <namespace>

**SparkHS Deployment:**

kubectl patch deploy sparkhs -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/cpu", "value":"2"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/cpu", "value":"1"}]'

kubectl patch deploy sparkhs -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/memory", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/memory", "value":"2Gi"}]'

kubectl patch deploy sparkhs -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/ephemeral-storage", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/ephemeral-storage", "value":"2Gi"}]'

kubectl get sts -n <namespace>

**Hivemeta sts:**

kubectl patch sts hivemeta -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/cpu", "value":"2"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/cpu", "value":"1"}]'

kubectl patch sts hivemeta -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/memory", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/memory", "value":"2Gi"}]'

kubectl patch sts hivemeta -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/ephemeral-storage", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/ephemeral-storage", "value":"2Gi"}]'

**Tenantcli sts:**

kubectl patch sts tenantcli -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/cpu", "value":"2"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/cpu", "value":"1"}]'

kubectl patch sts tenantcli -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/memory", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/memory", "value":"2Gi"}]'

kubectl patch sts tenantcli -n <namespace> --type=json -p='[{"op": "replace", "path": "/spec/template/spec/containers/0/resources/limits/ephemeral-storage", "value":"2Gi"}, {"op": "replace", "path": "/spec/template/spec/containers/0/resources/requests/ephemeral-storage", "value":"2Gi"}]'

P.S. : We have observed *Ephemeral storage full* error in events of pods of one of the tenants in ECP so have come up with this as a workaround.