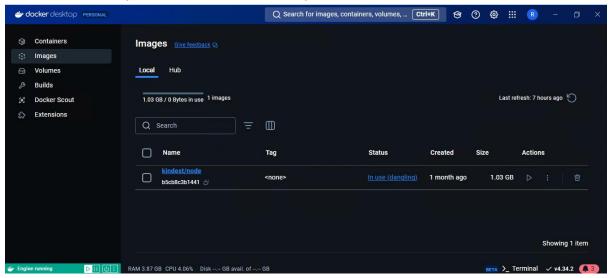
Kubernetes Security Scan

Process followed:

- → The whole process is performed in a Windows environment
- → Docker-Desktop is installed and set up.



- → Now Kubernetes needs to be installed for which kubectl in installed from the official page.
- → Once Kubernetes is running kind(Kubernetes in docker) is installed.

```
PS C:\Users\sRamu\Documents> .\kubectl.exe get nodes

NAME STATUS ROLES AGE VERSION

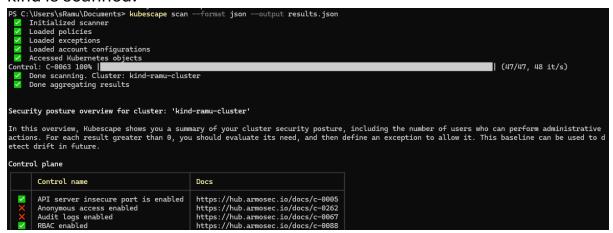
ramu-cluster-control-plane Ready control-plane 30m v1.31.0

PS C:\Users\sRamu\Documents>
```

→ Using kind a new cluster is created and nodes from Kubernetes are added to the cluster.

```
PS C:\Users\sRamu\Documents> .\kind-windows-amd64.exe get clusters ramu-cluster
PS C:\Users\sRamu\Documents>
```

→ Now kubescape is installed and the new cluster created by using kind is scanned.



→ The output format is provided to be json.

```
C:> Users > sRamu > Documents > {} resultsjson > {} summaryDetails > {} controls > {} C-0265 > \box name

1 { "generationTime": 0001-01-01T00:00:00Z", "clusterAPIServerInfo": "major": "1", "minor": "31", "gitVersion": v1.31.0", "gitCommit": "9dcfffcde5595e8a5b1a35f88c421764e575afce", "gitTreeState": "clean", "buildDate": "2024-08-13T22:44:37Z", "goVersion": "go1.22.5", "compiler": "gc", "platform": "linux/amd64"}, "clusterCloudProvider": "", "custemerGUID": "", "clusterName": "", "reportGUID": "", "summaryDetails": "controls": "C-0002": "statusInfo": "status": "failed"}, "controlID": "C-0002", "name": "Prevent containers from allowing command execution", "status": "failed", "resourceIDs": {}, "ResourceCounters": { "passedResources": 72, "failedResources": 1, "skippedResources": 9, "excludedResources": 8}, "subStatusCounters": { "ignoredResources": 1}, "score": 1.369863, "complianceScore": 98.630135, "scoreFactor": 5, "category": { "name": "Access control", "id": "Cat-2"}, "C-0005": { "statusInfo": { "status": "passed", "controlID": "C-0005", "name": "API server insecure port is enabled", "status": "passed", "resourceCounters": { "ignoredResources": 9, "score": 9, "skippedResources": 9, "subStatusCounters": { "ignoredResources": 9, "score": 9, "complianceScore": 100, "scoreFactor": 9, "category": { "name": "Roles with delete capabilities", "status": "failed", "resourceCounters": { "ignoredResources": 9, "subStatusCounters": { "ignoredResources": 70, "failedResources": 3, "skippedResources": 9, "excludedResources": 9, "subStatusCounters": { "ignoredResources": 70, "failedResources": 3, "skippedResources": 9, "score": 4, 109589, "complianceScore": 98.9041, "scoreFactor": 5, "category": { "name": "Access control", "id": "cat-2"}, "C-0012": { "status: "failed", "resourceIDs": { "passedResources": 9, "subStatusCounters": { "ignoredResources": 9, "skippedResources": 2, "skippedResources": 9, "subStatusCounters": { "ignoredResources": 9, "score": 90.40908, "complianceScore": 90.47619, "scoreFactor": 8, "subStatusCounte
```