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| **DOCUMENT RULES:** | |
| **Task Number / Name:** | **Terrascan** |
| **Task name & column name should be written:** | **Bold (CTRL+B)** |
| **Commands should be written in the after # sign:** | *Italic (CTRL+I) #hostname* |
| **Output photo should be cropped or compressed:**  **Photo could be more than one:**  **If you need extra lines, add the line next after it:** | ***Description photo should be with title bar (CTRL + I + B)*** |
| **All other text should be written:** | Standard |
| **Font name and text size:** | Calibri and 9 |
| **Group name:** | Dev\_ops\_ |
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| 1.Introduction to Terrascan and CLI |  |
| curl -L "$(curl -s https://api.github.com/repos/tenable/terrascan/releases/latest | grep -o -E "https://.+?\_Darwin\_x86\_64.tar.gz")" > terrascan.tar.gz |  |
| tar -xf terrascan.tar.gz terrascan && rm terrascan.tar.gz  install terrascan /usr/local/bin && rm terrascan |  |
| cp /etc/kubernetes/manifests/kube-apiserver.yaml ~/kube-apiserver.yaml.ori  vim /etc/kubernetes/manifests/kube-apiserver.yaml |  |
| Terrascan init  git clone https://github.com/tenable/KaiMonkey  cd KaiMonkey/terraform/aws |  |
| terrascan scan -t aws |  |
| git clone https://github.com/hashicorp/learn-terraform-azure  cd learn-terraform-azure |  |
| terrascan scan -t azure |  |
| git clone https://github.com/GoogleCloudPlatform/terraform-google-examples  cd terraform-google-examples |  |
| terrascan scan -t gcp |  |
| git clone https://github.com/awslabs/aws-cloudformation-templates  cd aws-cloudformation-templates |  |
| terrascan scan -i cft |  |
| git clone https://github.com/sangam14/alldaydevops2021  cd alldaydevops2021 |  |
| 2.Introduction to Terrascan as a Server |  |
| terrascan server |  |
| docker run --rm --name terrascan -p 9010:9010 accurics/terrascan |  |
| git clone https://github.com/tenable/KaiMonkey  cd KaiMonkey/terraform/aws  terrascan server  curl --location --request POST 'http://localhost:9010/v1/terraform/v14/aws/local/file/scan' \  --form 'file=@"main.tf"' |  |
| git clone <https://github.com/tenable/KaiMonkey>  cd KaiMonkey/cft  terrascan server  curl --location --request POST 'http://localhost:9010/v1/cft/v1/aws/local/file/scan' \  --form 'file=@"incorrectTypesInParamsCftTemplate.yml"' |  |
| git clone <https://github.com/sangam14/alldaydevops2021>  cd alldaydevops2021  terrascan server |  |
| docker run --rm --name terrascan -p 9010:9010 tenable/terrascan |  |
| 3.ARGO-CD Pre-hook with terrascan |  |
| kubectl create namespace argocd |  |
| kubectl apply -n argocd -f https://raw.githubusercontent.com/argoproj/argo-cd/stable/manifests/install.yaml |  |
| kubectl get ns |  |
| kubectl -n argocd get secret argocd-initial-admin-secret -o jsonpath="{.data.password}" | base64 -d |  |
| 4.Pod Security |  |
| kubectl exec -it kube-apiserver-controlplane -n kube-system -- kube-apiserver -h | grep enable-admission-plugins |  |
| nano pod-sec.yaml |  |
| kubectl apply -f pod-sec.yaml --namespace=my-baseline-namespace  kubectl apply -f https://k8s.io/examples/pods/security/security-context.yaml --namespace=my-restricted-namespace |  |
| git clone https://github.com/sangam14/badpod.git  cd badpod  cd disallow-capabilities/ |  |
| kubectl apply -f resource.yaml --namespace=my-baseline-namespace |  |
| git clone <http://github.com/sangam14/badpod.git>  cd badpod/baseline  cd disallow-capabilities/ |  |
| kubectl apply -f resource.yaml --namespace=my-baseline-namespace |  |