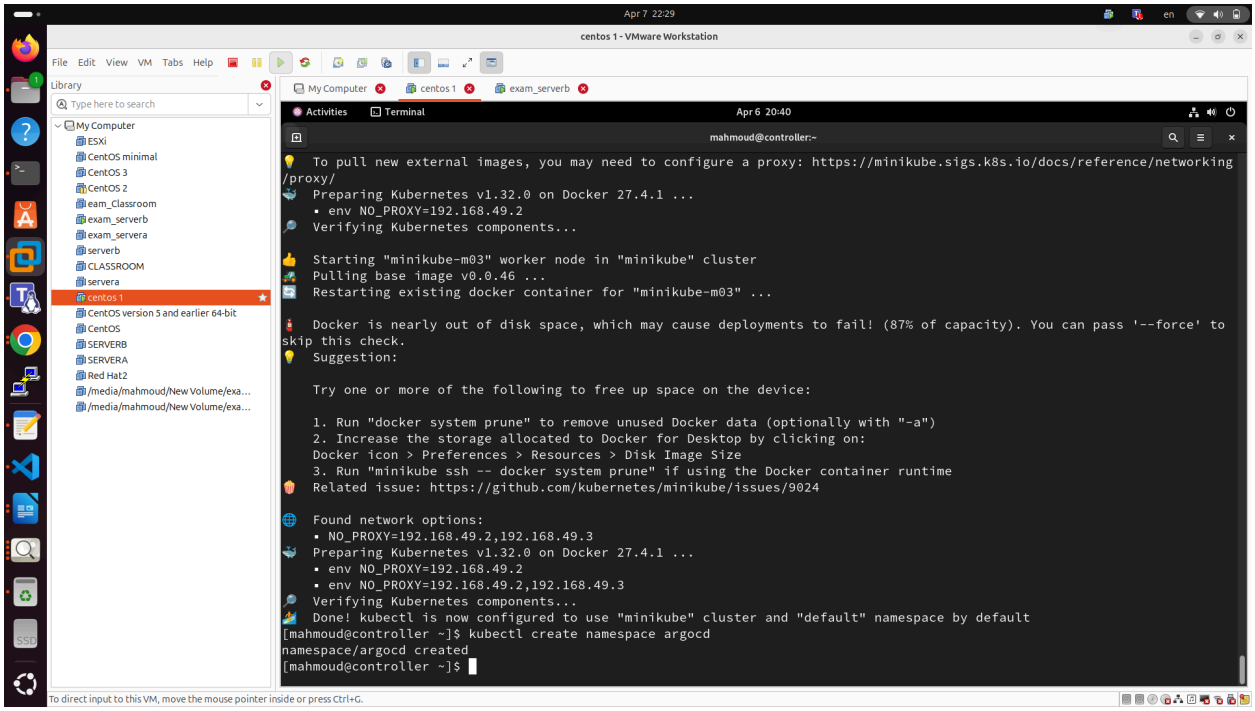
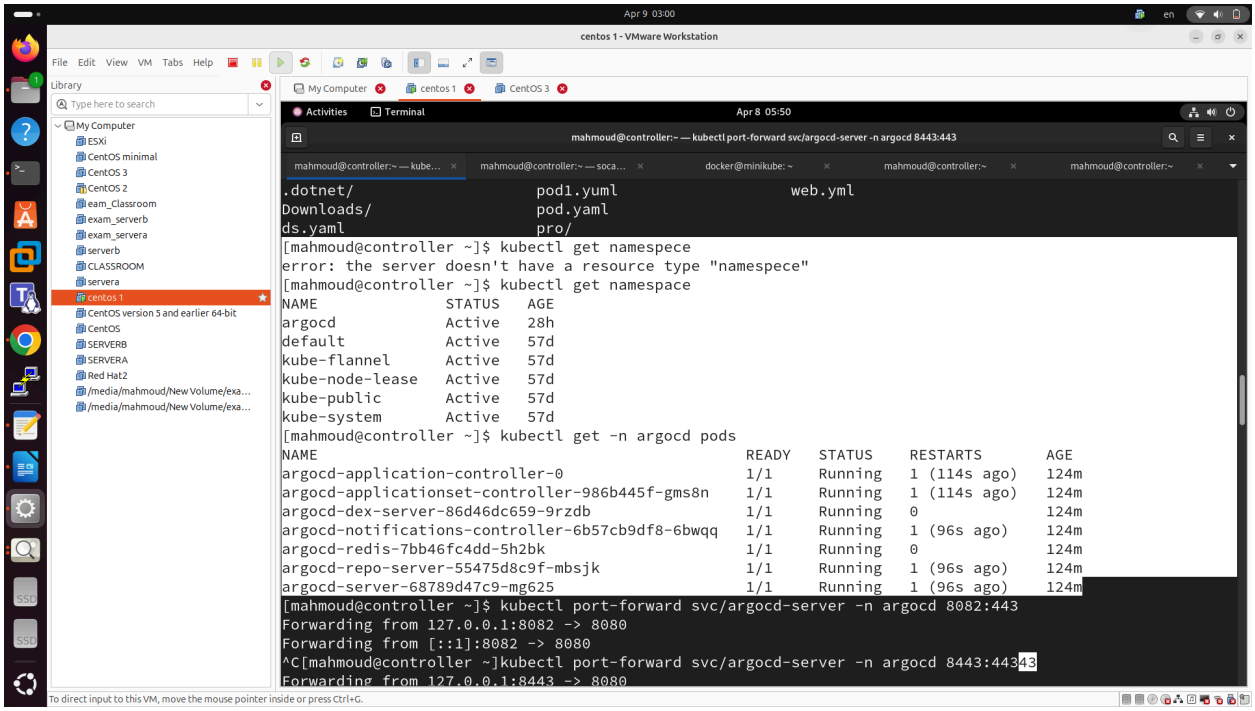
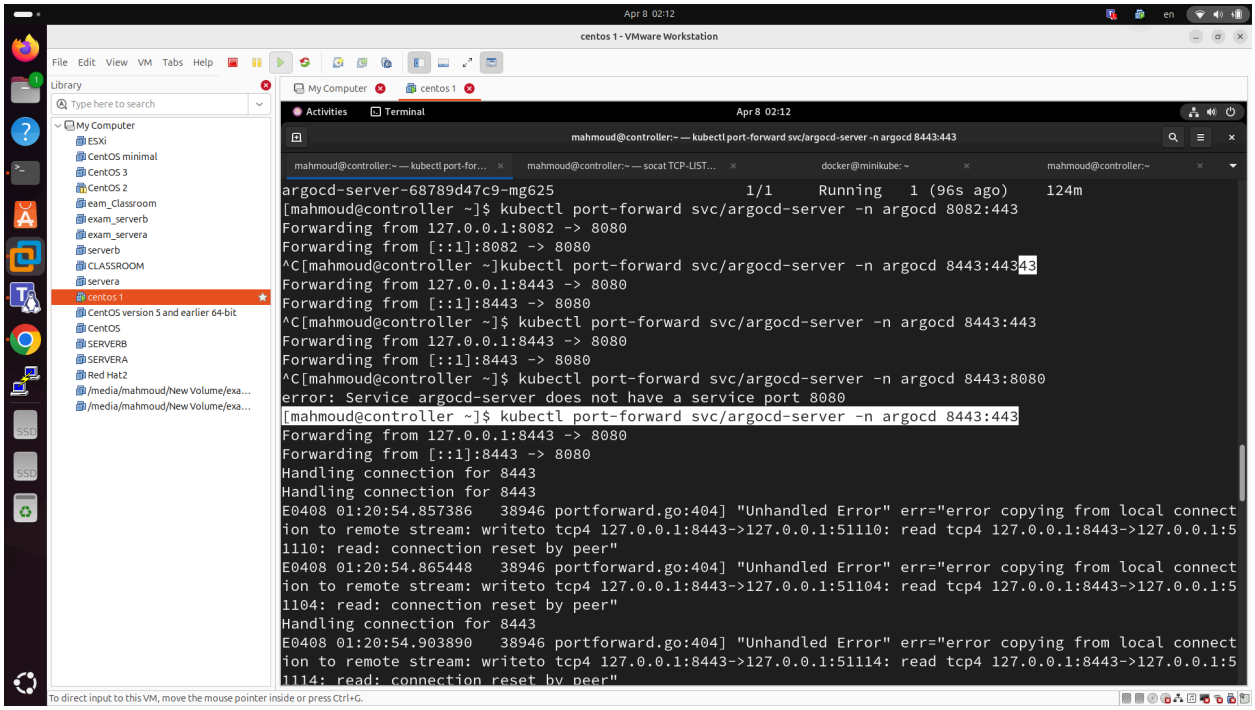
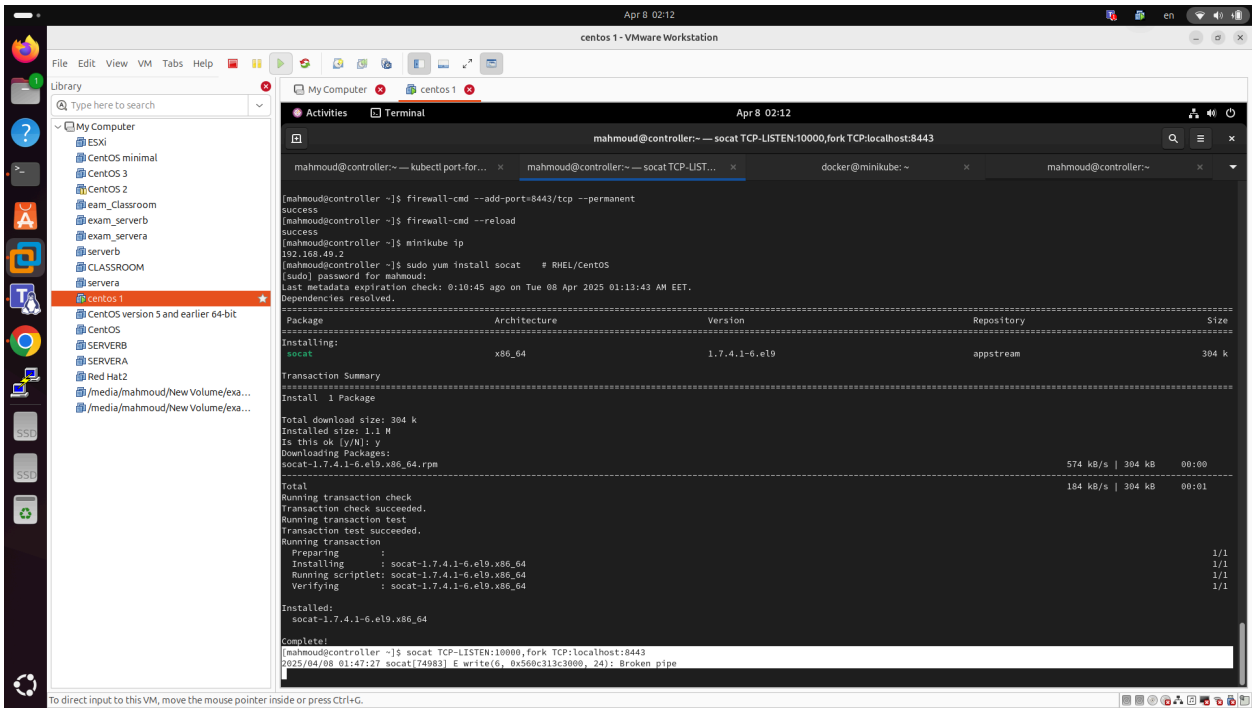
Task4

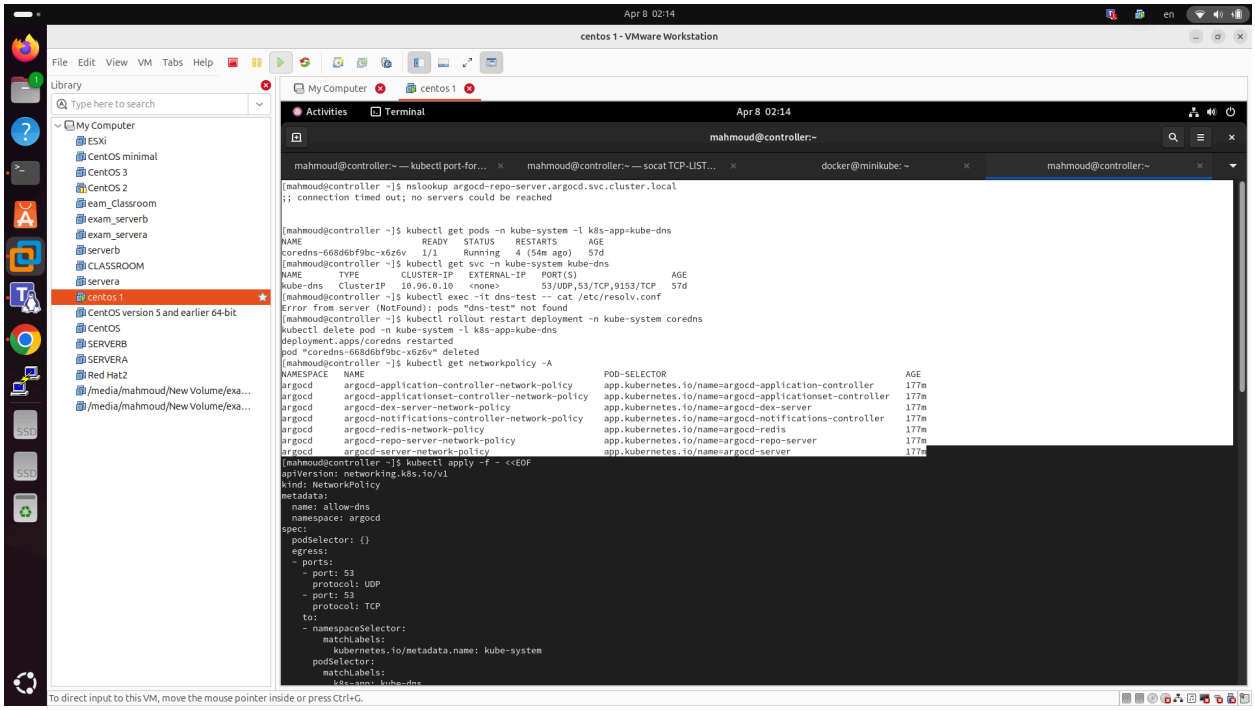
Gitops Argo cd with github

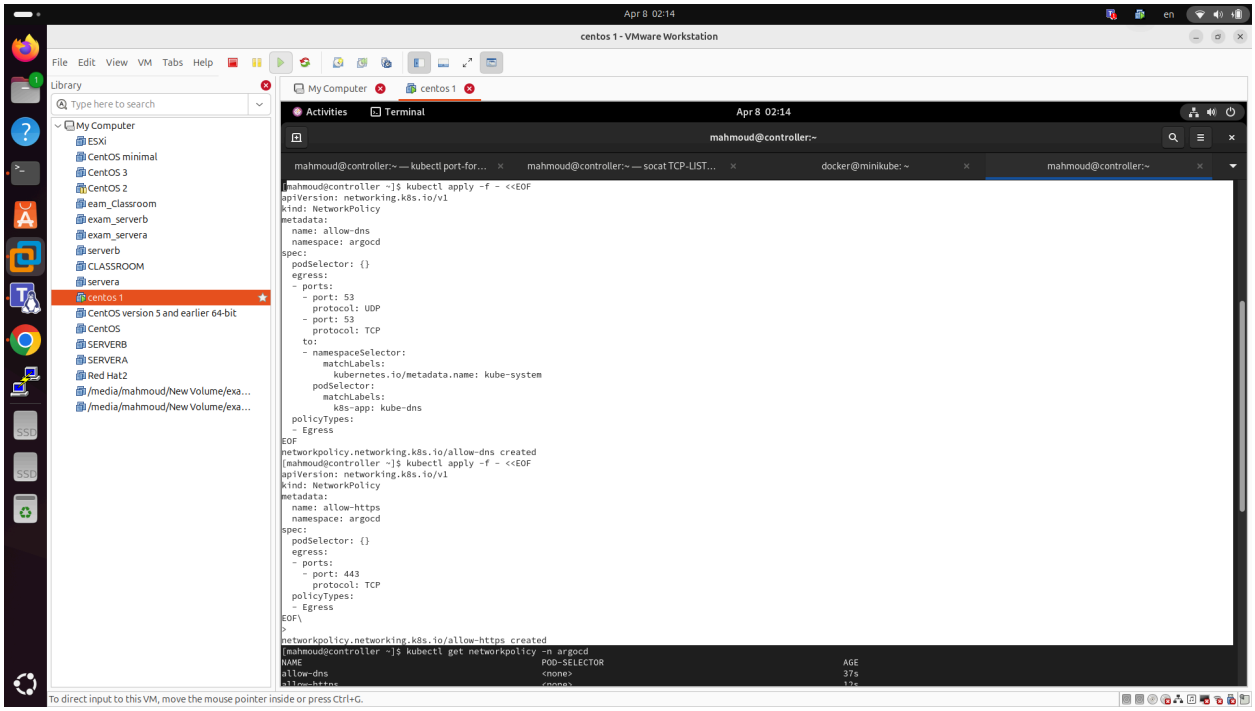


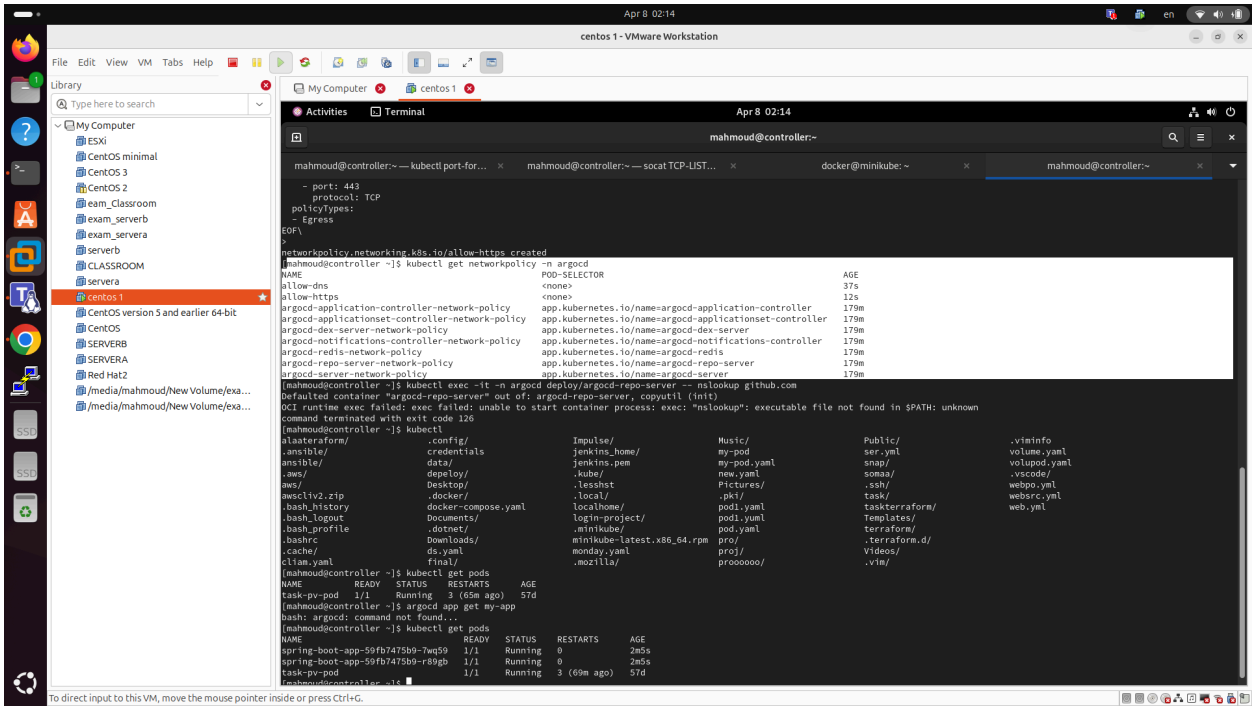


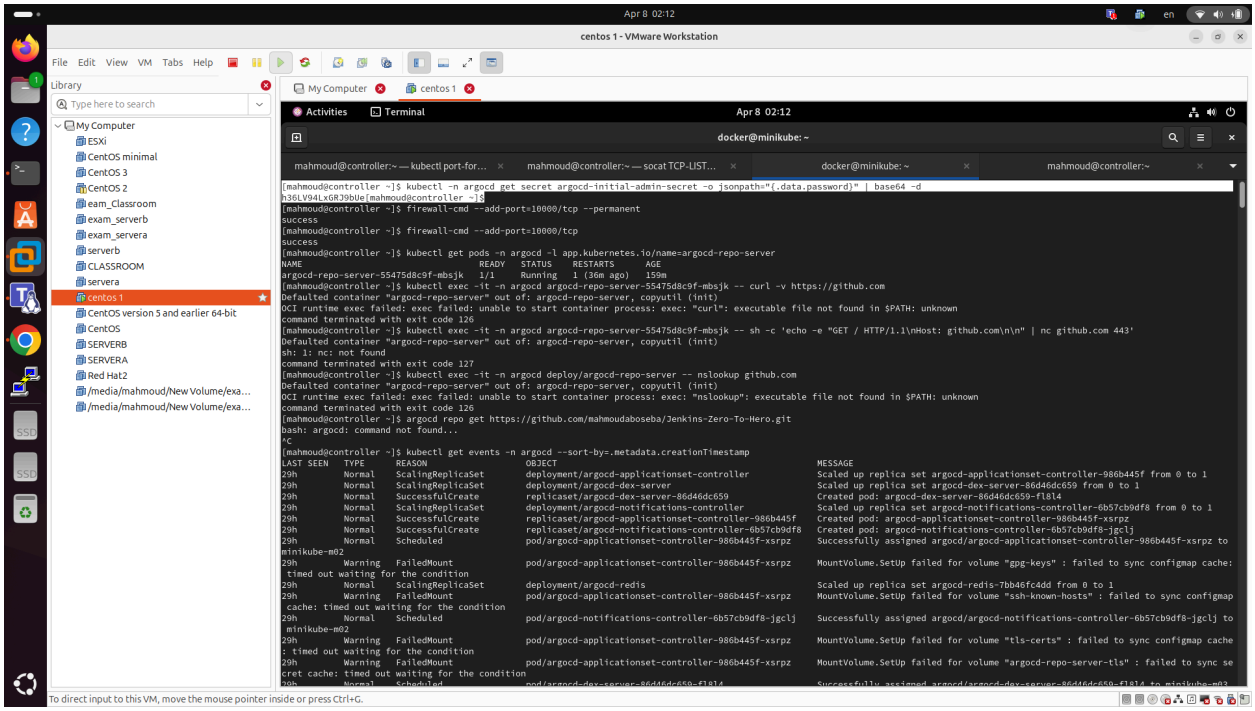

centos 1 - VMware Workstation
mahmoud@controller:~ — kubectl port-forward svc/argocd-server -n argocd 8443:443
argocd-server-68789d47c9-mg625 1/1 Running 1 (96s ago) 124m
[mahmoud@controller ~]$ kubectl port-forward svc/argocd-server -n argocd 8082:443
Forwarding from 127.0.0.1:8082 -> 8080
Forwarding from [::1]:8082 -> 8080
^C[mahmoud@controller ~]kubectl port-forward svc/argocd-server -n argocd 8443:44343
Forwarding from 127.0.0.1:8443 -> 8080
Forwarding from [::1]:8443 -> 8080
^C[mahmoud@controller ~]$ kubectl port-forward svc/argocd-server -n argocd 8443:443
Forwarding from 127.0.0.1:8443 -> 8080
Forwarding from [::1]:8443 -> 8080
^C[mahmoud@controller ~]$ kubectl port-forward svc/argocd-server -n argocd 8443:8080
error: Service argocd-server does not have a service port 8080
[mahmoud@controller ~]$ kubectl port-forward svc/argocd-server -n argocd 8443:443
Forwarding from 127.0.0.1:8443 -> 8080
Forwarding from [::1]:8443 -> 8080
Handling connection for 8443
Handling connection for 8443
E0408 01:20:54.857386 38946 portforward.go:404] "Unhandled Error" err="error copying from local connection to remote stream: writeto tcp4 127.0.0.1:8443->127.0.0.1:51110: read tcp4 127.0.0.1:8443->127.0.0.1:51110: read: connection reset by peer"
E0408 01:20:54.865448 38946 portforward.go:404] "Unhandled Error" err="error copying from local connection to remote stream: writeto tcp4 127.0.0.1:8443->127.0.0.1:51104: read tcp4 127.0.0.1:8443->127.0.0.1:51104: read: connection reset by peer"
Handling connection for 8443
E0408 01:20:54.903890 38946 portforward.go:404] "Unhandled Error" err="error copying from local connection to remote stream: writeto tcp4 127.0.0.1:8443->127.0.0.1:51114: read tcp4 127.0.0.1:8443->127.0.0.1:51114: read: connection reset by peer"

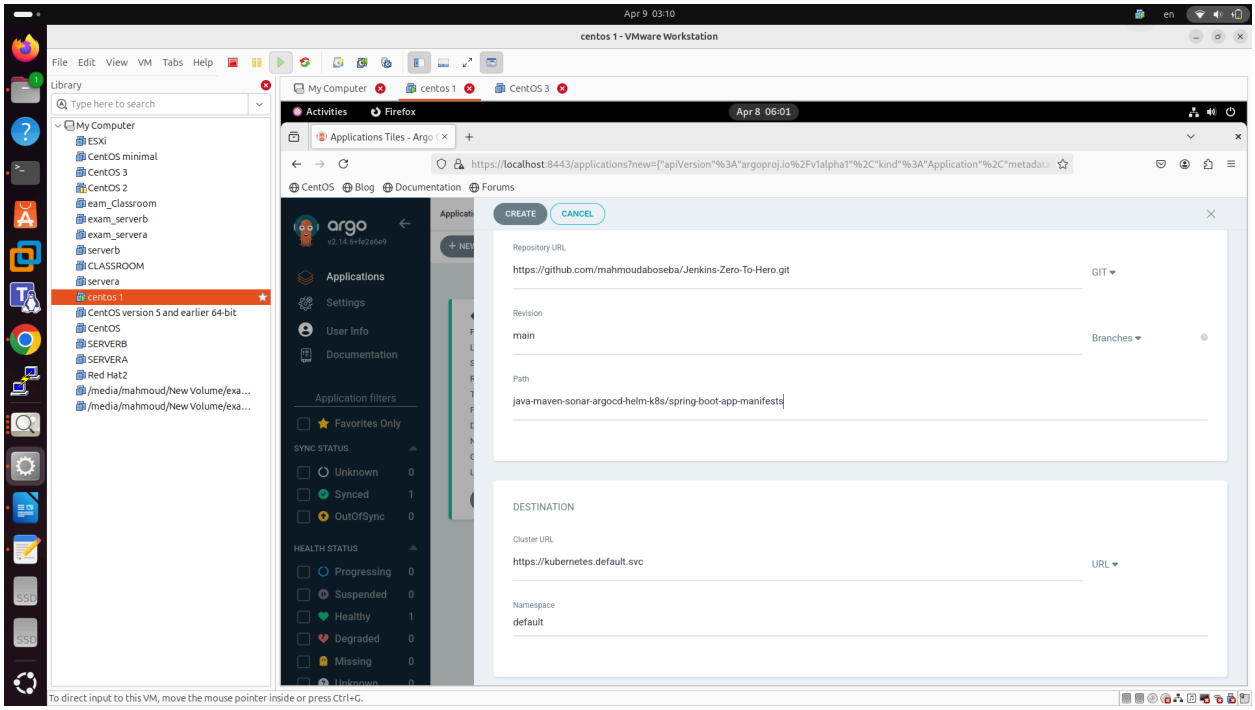

centos 1 - VMware Workstation
mahmoud@controller:~ — socat TCP-LISTEN:10000,fork TCP:localhost:8443
[mahmoud@controller ~]$ firewall-cmd --add-port=8443/tcp --permanent
success
[mahmoud@controller ~]$ firewall-cmd --reload
success
[mahmoud@controller ~]$ minikube ip
192.168.49.2
[mahmoud@controller ~]$ sudo yum install socat # RHEL/CentOS
[sudo] password for mahmoud:
Last metadata expiration check: 0:10:45 ago on Tue 08 Apr 2025 01:13:43 AM EET.
Dependencies resolved.
Package Architecture Version Repository Size
Installing:
socat x86_64 1.7.4.1-6.el9 appstream 304 k
Transaction Summary
Install 1 Package
Total download size: 304 k
Installed size: 1.1 M
Is this ok [y/N]: y
Downloading Packages:
socat-1.7.4.1-6.el9.x86_64.rpm 574 kB/s | 304 kB 00:00
Total 184 kB/s | 304 kB 00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : socat-1.7.4.1-6.el9.x86_64 1/1
Running scriptlet: socat-1.7.4.1-6.el9.x86_64 1/1
Verifying : socat-1.7.4.1-6.el9.x86_64 1/1
Installed:
socat-1.7.4.1-6.el9.x86_64
Complete!
[mahmoud@controller ~]$ socat TCP-LISTEN:10000,fork TCP:localhost:8443
2025/04/08 01:47:27 socat[74983] E write(6, 0x560c313c3000, 24): Broken pipe

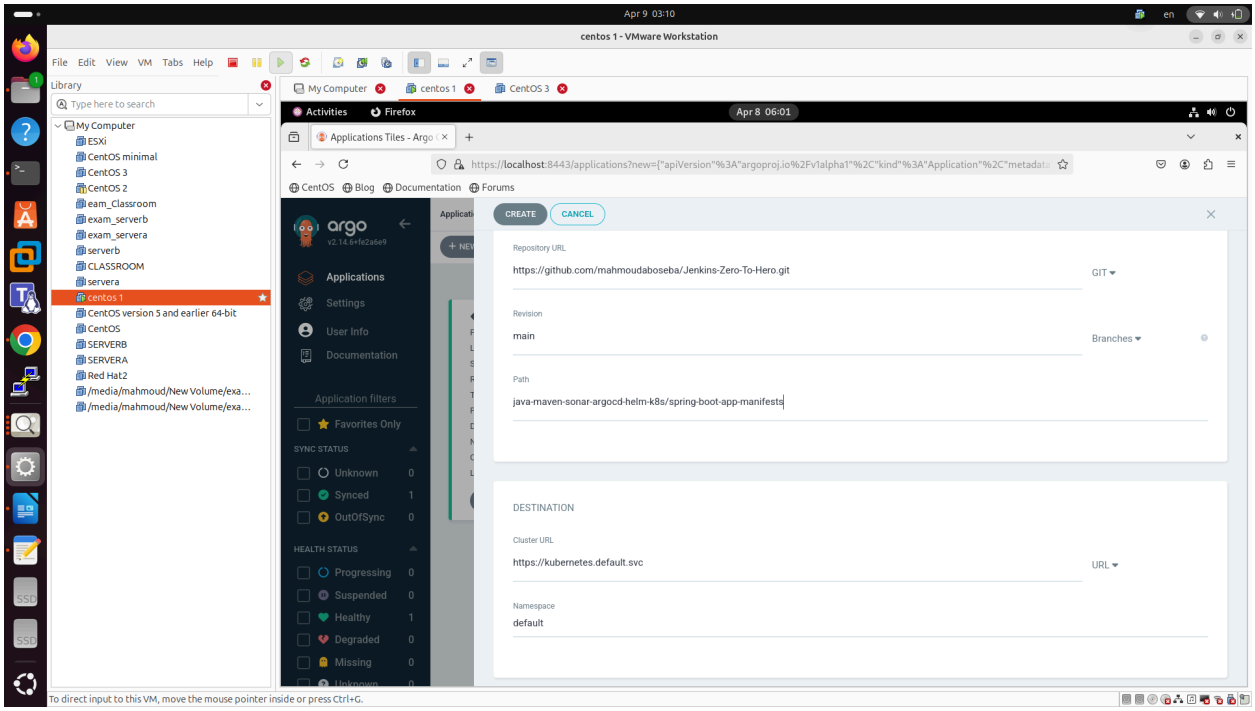

centos 1 - VMware Workstation
Activities
Terminal
Apr 8 02:14
mahmoud@controller:~
[mahmoud@controller ~]$ nslookup argocd-repo-server.argocd.svc.cluster.local
;; connection timed out; no servers could be reached
[mahmoud@controller ~]$ kubectl get pods -n kube-system -l k8s-app=kube-dns
NAME READY STATUS RESTARTS AGE
coredns-668d6bf9bc-x6z6v 1/1 Running 4 (54m ago) 57d
[mahmoud@controller ~]$ kubectl get svc -n kube-system kube-dns
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
kube-dns ClusterIP 10.96.0.10 <none> 53/UDP,53/TCP,9153/TCP 57d
[mahmoud@controller ~]$ kubectl exec -it dns-test -- cat /etc/resolv.conf
Error from server (NotFound): pods "dns-test" not found
[mahmoud@controller ~]$ kubectl rollout restart deployment -n kube-system coredns
kubectl delete pod -n kube-system -l k8s-app=kube-dns
deployment.apps/coredns restarted
pod "coredns-668d6bf9bc-x6z6v" deleted
[mahmoud@controller ~]$ kubectl get networkpolicy -A
NAMESPACE NAME POD-SELECTOR AGE
argocd argocd-application-controller-network-policy app.kubernetes.io/name=argocd-application-controller 177m
argocd argocd-applicationset-controller-network-policy app.kubernetes.io/name=argocd-applicationset-controller 177m
argocd argocd-dex-server-network-policy app.kubernetes.io/name=argocd-dex-server 177m
argocd argocd-notifications-controller-network-policy app.kubernetes.io/name=argocd-notifications-controller 177m
argocd argocd-redis-network-policy app.kubernetes.io/name=argocd-redis 177m
argocd argocd-repo-server-network-policy app.kubernetes.io/name=argocd-repo-server 177m
argocd argocd-server-network-policy app.kubernetes.io/name=argocd-server 177m
[mahmoud@controller ~]$ kubectl apply -f - <<EOF
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-dns
namespace: argocd
spec:
podSelector: {}
egress:
- ports:
- port: 53
protocol: UDP
- port: 53
protocol: TCP
to:
- namespaceSelector:
matchLabels:
kubernetes.io/metadata.name: kube-system
podSelector:
matchLabels:
k8s-app: kube-dns
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

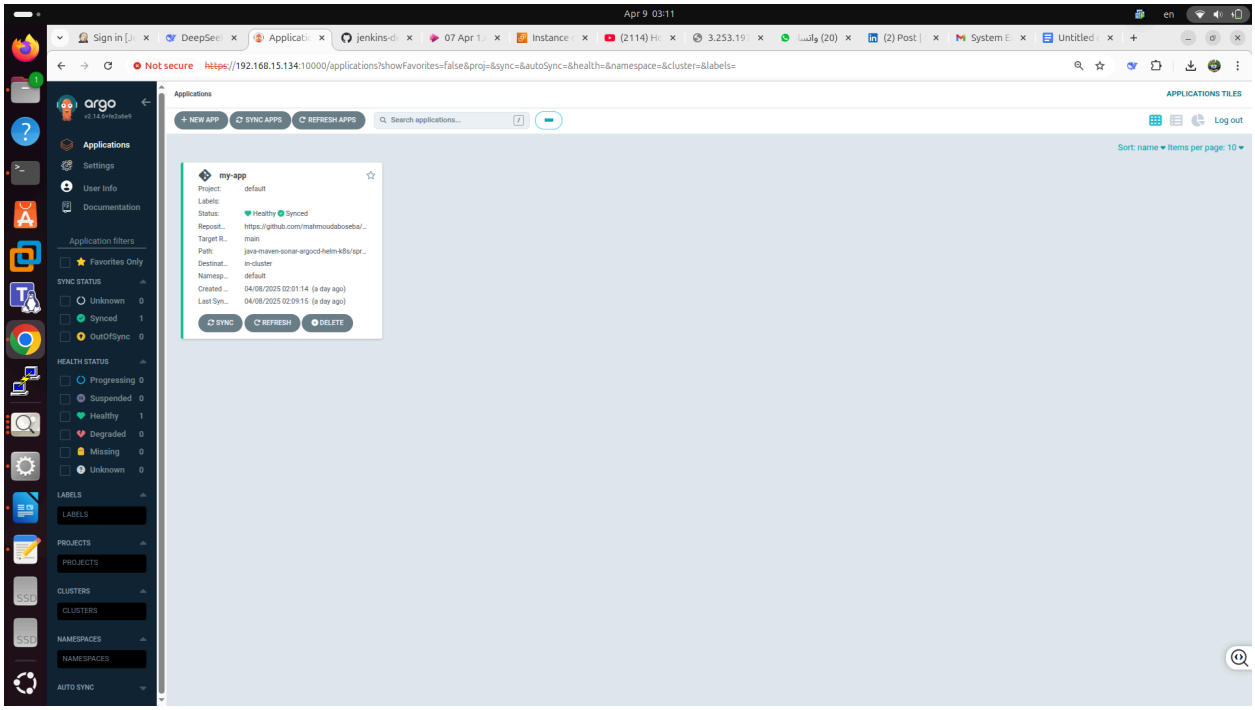

centos 1 - VMware Workstation
Activities
Terminal
Apr 8 02:14
mahmoud@controller:~
[mahmoud@controller ~]$ kubectl apply -f - <<EOF
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-dns
namespace: argocd
spec:
podSelector: {}
egress:
- ports:
- port: 53
protocol: UDP
- port: 53
protocol: TCP
to:
- namespaceSelector:
matchLabels:
kubernetes.io/metadata.name: kube-system
podSelector:
matchLabels:
k8s-app: kube-dns
policyTypes:
- Egress
EOF
networkpolicy.networking.k8s.io/allow-dns created
[mahmoud@controller ~]$ kubectl apply -f - <<EOF
apiVersion: networking.k8s.io/v1
kind: NetworkPolicy
metadata:
name: allow-https
namespace: argocd
spec:
podSelector: {}
egress:
- ports:
- port: 443
protocol: TCP
policyTypes:
- Egress
EOF\
>
networkpolicy.networking.k8s.io/allow-https created
[mahmoud@controller ~]$ kubectl get networkpolicy -n argocd
NAME POD-SELECTOR AGE
allow-dns <none> 37s
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

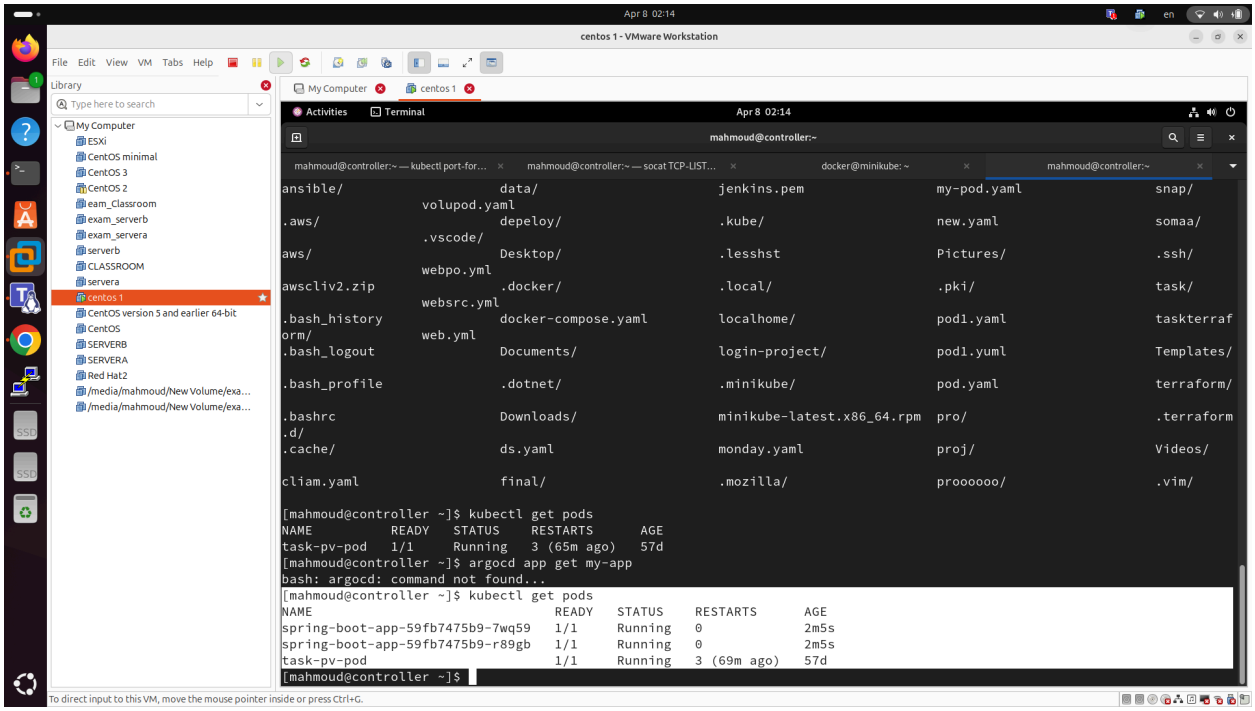

centos 1 - VMware Workstation
Activities
Terminal
Apr 8 02:14
mahmoud@controller:~
mahmoud@controller:~ — kubectl port-for...
mahmoud@controller:~ — socat TCP-LIST...
docker@minikube: ~
mahmoud@controller:~
[mahmoud@controller ~]$ kubectl get networkpolicy -n argocd
NAME POD-SELECTOR AGE
allow-dns <none> 37s
allow-https <none> 12s
argocd-application-controller-network-policy app.kubernetes.io/name=argocd-application-controller 179m
argocd-applicationset-controller-network-policy app.kubernetes.io/name=argocd-applicationset-controller 179m
argocd-dex-server-network-policy app.kubernetes.io/name=argocd-dex-server 179m
argocd-notifications-controller-network-policy app.kubernetes.io/name=argocd-notifications-controller 179m
argocd-redis-network-policy app.kubernetes.io/name=argocd-redis 179m
argocd-repo-server-network-policy app.kubernetes.io/name=argocd-repo-server 179m
argocd-server-network-policy app.kubernetes.io/name=argocd-server 179m
[mahmoud@controller ~]$ kubectl exec -it -n argocd deploy/argocd-repo-server -- nslookup github.com
Defaulted container "argocd-repo-server" out of: argocd-repo-server, copyutil (init)
OCI runtime exec failed: exec failed: unable to start container process: exec: "nslookup": executable file not found in $PATH: unknown
command terminated with exit code 126
[mahmoud@controller ~]$ kubectl get pods
NAME READY STATUS RESTARTS AGE
task-pv-pod 1/1 Running 3 (65m ago) 57d
[mahmoud@controller ~]$ argocd app get my-app
bash: argocd: command not found...
[mahmoud@controller ~]$ kubectl get pods
NAME READY STATUS RESTARTS AGE
spring-boot-app-59fb7475b9-7wq59 1/1 Running 0 2m5s
spring-boot-app-59fb7475b9-r89gb 1/1 Running 0 2m5s
task-pv-pod 1/1 Running 3 (69m ago) 57d
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

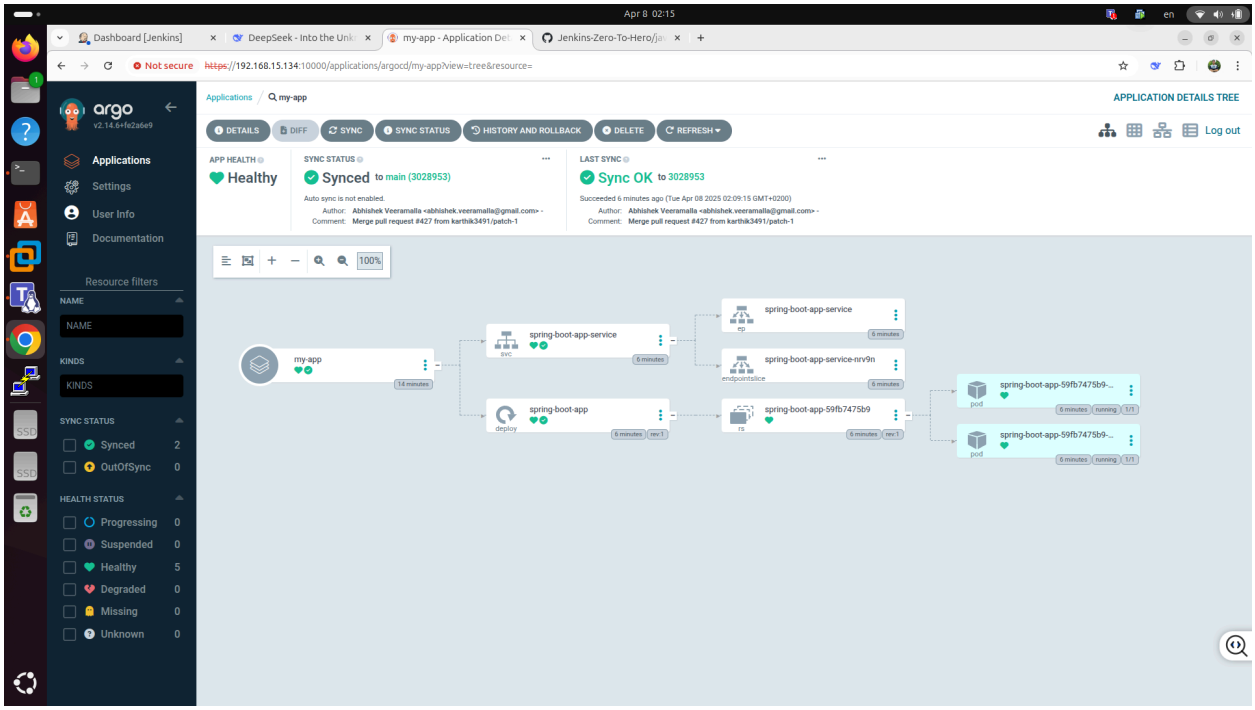

centos 1 - VMware Workstation
Activities
Terminal
Apr 8 02:12
docker@minikube: ~
[mahmoud@controller ~]$ kubectl -n argocd get secret argocd-initial-admin-secret -o jsonpath="{.data.password}" | base64 -d
h36LV94LxGRJ9bUe[mahmoud@controller ~]$
[mahmoud@controller ~]$ firewall-cmd --add-port=10000/tcp --permanent
success
[mahmoud@controller ~]$ firewall-cmd --add-port=10000/tcp
success
[mahmoud@controller ~]$ kubectl get pods -n argocd -l app.kubernetes.io/name=argocd-repo-server
NAME READY STATUS RESTARTS AGE
argocd-repo-server-55475d8c9f-mbsjk 1/1 Running 1 (36m ago) 159m
[mahmoud@controller ~]$ kubectl exec -it -n argocd argocd-repo-server-55475d8c9f-mbsjk -- curl -v https://github.com
Defaulted container "argocd-repo-server" out of: argocd-repo-server, copyutil (init)
OCI runtime exec failed: exec failed: unable to start container process: exec: "curl": executable file not found in $PATH: unknown
command terminated with exit code 126
[mahmoud@controller ~]$ kubectl exec -it -n argocd argocd-repo-server-55475d8c9f-mbsjk -- sh -c 'echo -e "GET / HTTP/1.1\nHost: github.com\n\n" | nc github.com 443'
Defaulted container "argocd-repo-server" out of: argocd-repo-server, copyutil (init)
sh: 1: nc: not found
command terminated with exit code 127
[mahmoud@controller ~]$ kubectl exec -it -n argocd deploy/argocd-repo-server -- nslookup github.com
Defaulted container "argocd-repo-server" out of: argocd-repo-server, copyutil (init)
OCI runtime exec failed: exec failed: unable to start container process: exec: "nslookup": executable file not found in $PATH: unknown
command terminated with exit code 126
[mahmoud@controller ~]$ argocd repo get https://github.com/mahmoudaboseba/Jenkins-Zero-To-Hero.git
bash: argocd: command not found...
^C
[mahmoud@controller ~]$ kubectl get events -n argocd --sort-by=.metadata.creationTimestamp
LAST SEEN TYPE REASON OBJECT MESSAGE
29h Normal ScalingReplicaSet deployment/argocd-applicationset-controller Scaled up replica set argocd-applicationset-controller-986b445f from 0 to 1
29h Normal ScalingReplicaSet deployment/argocd-dex-server Scaled up replica set argocd-dex-server-86d46dc659 from 0 to 1
29h Normal SuccessfulCreate replicaset/argocd-dex-server-86d46dc659 Created pod: argocd-dex-server-86d46dc659-fl8l4
29h Normal ScalingReplicaSet deployment/argocd-notifications-controller Scaled up replica set argocd-notifications-controller-6b57cb9df8 from 0 to 1
29h Normal SuccessfulCreate replicaset/argocd-applicationset-controller-986b445f Created pod: argocd-applicationset-controller-986b445f-xsrpz
29h Normal SuccessfulCreate replicaset/argocd-notifications-controller-6b57cb9df8 Created pod: argocd-notifications-controller-6b57cb9df8-jgclj
29h Normal Scheduled pod/argocd-applicationset-controller-986b445f-xsrpz Successfully assigned argocd/argocd-applicationset-controller-986b445f-xsrpz to minikube-m02
29h Warning FailedMount pod/argocd-applicationset-controller-986b445f-xsrpz MountVolume.SetUp failed for volume "gpg-keys" : failed to sync configmap cache: timed out waiting for the condition
29h Normal ScalingReplicaSet deployment/argocd-redis Scaled up replica set argocd-redis-7bb46fc4dd from 0 to 1
29h Warning FailedMount pod/argocd-applicationset-controller-986b445f-xsrpz MountVolume.SetUp failed for volume "ssh-known-hosts" : failed to sync configmap cache: timed out waiting for the condition
29h Normal Scheduled pod/argocd-notifications-controller-6b57cb9df8-jgclj Successfully assigned argocd/argocd-notifications-controller-6b57cb9df8-jgclj to minikube-m02
29h Warning FailedMount pod/argocd-applicationset-controller-986b445f-xsrpz MountVolume.SetUp failed for volume "tls-certs" : failed to sync configmap cache: timed out waiting for the condition
29h Warning FailedMount pod/argocd-applicationset-controller-986b445f-xsrpz MountVolume.SetUp failed for volume "argocd-repo-server-tls" : failed to sync secret cache: timed out waiting for the condition
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.


Apr 9 03:10
centos 1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
ESXi
CentOS minimal
CentOS 3
CentOS 2
eam_Classroom
exam_serverb
exam_servera
serverb
CLASSROOM
servera
centos 1
CentOS version 5 and earlier 64-bit
CentOS
SERVERB
SERVERA
Red Hat2
/media/mahmoud/New Volume/exa...
/media/mahmoud/New Volume/exa...
My Computer
centos 1
CentOS 3
Activities
Firefox
Apr 8 06:01
Applications Tiles - Argo
https://localhost:8443/applications?new={"apiVersion"%3A"argoproj.io%2Fv1alpha1"%2C"kind"%3A"Application"%2C"metadata
CentOS
Blog
Documentation
Forums
argo
v2.14.6+fe2a6e9
Applications
Settings
User Info
Documentation
Application filters
Favorites Only
SYNC STATUS
Unknown 0
Synced 1
OutOfSync 0
HEALTH STATUS
Progressing 0
Suspended 0
Healthy 1
Degraded 0
Missing 0
CREATE
CANCEL
Repository URL
https://github.com/mahmoudaboseba/Jenkins-Zero-To-Hero.git
GIT
Revision
main
Branches
Path
java-maven-sonar-argocd-helm-k8s/spring-boot-app-manifests
DESTINATION
Cluster URL
https://kubernetes.default.svc
URL
Namespace
default
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.


Apr 9 03:10
centos 1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
ESXi
CentOS minimal
CentOS 3
CentOS 2
eam_Classroom
exam_serverb
exam_servera
serverb
CLASSROOM
servera
centos 1
CentOS version 5 and earlier 64-bit
CentOS
SERVERB
SERVERA
Red Hat2
/media/mahmoud/New Volume/exa...
/media/mahmoud/New Volume/exa...
My Computer
centos 1
CentOS 3
Activities
Firefox
Apr 8 06:01
Applications Tiles - Argo
https://localhost:8443/applications?new={"apiVersion"%3A"argoproj.io%2Fv1alpha1"%2C"kind"%3A"Application"%2C"metadata
CentOS
Blog
Documentation
Forums
argo
v2.14.6+fe2a6e9
Applications
Settings
User Info
Documentation
Application filters
Favorites Only
SYNC STATUS
Unknown 0
Synced 1
OutOfSync 0
HEALTH STATUS
Progressing 0
Suspended 0
Healthy 1
Degraded 0
Missing 0
CREATE
CANCEL
Repository URL
https://github.com/mahmoudaboseba/Jenkins-Zero-To-Hero.git
GIT
Revision
main
Branches
Path
java-maven-sonar-argocd-helm-k8s/spring-boot-app-manifests
DESTINATION
Cluster URL
https://kubernetes.default.svc
URL
Namespace
default
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.


Apr 9 03:11
Not secure https://192.168.15.134:10000/applications?showFavorites=false&proj=&sync=&autoSync=&health=&namespace=&cluster=&labels=
argo
Applications
Settings
User Info
Documentation
Application filters
Favorites Only
SYNC STATUS
Unknown 0
Synced 1
OutOfSync 0
HEALTH STATUS
Progressing 0
Suspended 0
Healthy 1
Degraded 0
Missing 0
Unknown 0
LABELS
PROJECTS
CLUSTERS
NAMESPACES
AUTO SYNC
Applications
APPLICATIONS TILES
+ NEW APP
SYNC APPS
REFRESH APPS
Search applications...
Log out
Sort: name Items per page: 10
my-app
Project: default
Labels:
Status: Healthy Synced
Repository: https://github.com/mahmoudaboseba/...
Target R... main
Path: java-maven-sonar-argocd-helm-k8s/spr...
Destinat... in-cluster
Namesp... default
Created ... 04/08/2025 02:01:14 (a day ago)
Last Syn... 04/08/2025 02:09:15 (a day ago)
SYNC
REFRESH
DELETE


Apr 8 02:14
centos 1 - VMware Workstation
File Edit View VM Tabs Help
Library
Type here to search
My Computer
ESXi
CentOS minimal
CentOS 3
CentOS 2
eam_Classroom
exam_serverb
exam_servera
serverb
CLASSROOM
servera
centos 1
CentOS version 5 and earlier 64-bit
CentOS
SERVERB
SERVERA
Red Hat2
/media/mahmoud/New Volume/exa...
/media/mahmoud/New Volume/exa...
My Computer
centos 1
Activities
Terminal
Apr 8 02:14
mahmoud@controller:~
mahmoud@controller:~ — kubectl port-for...
mahmoud@controller:~ — socat TCP-LIST...
docker@minikube: ~
mahmoud@controller:~
ansible/ data/ jenkins.pem my-pod.yaml snap/
volupod.yaml
.aws/ depeloy/ .kube/ new.yaml somaa/
.vscode/
aws/ Desktop/ .lesshst Pictures/ .ssh/
webpo.yml
awscliv2.zip .docker/ .local/ .pki/ task/
websrc.yml
.bash_history docker-compose.yaml localhome/ pod1.yaml taskterraf
orm/ web.yml
.bash_logout Documents/ login-project/ pod1.yuml Templates/
.bash_profile .dotnet/ .minikube/ pod.yaml terraform/
.bashrc Downloads/ minikube-latest.x86_64.rpm pro/ .terraform
.d/
.cache/ ds.yaml monday.yaml proj/ Videos/
cliam.yaml final/ .mozilla/ proooooo/ .vim/
[mahmoud@controller ~]$ kubectl get pods
NAME READY STATUS RESTARTS AGE
task-pv-pod 1/1 Running 3 (65m ago) 57d
[mahmoud@controller ~]$ argocd app get my-app
bash: argocd: command not found...
[mahmoud@controller ~]$ kubectl get pods
NAME READY STATUS RESTARTS AGE
spring-boot-app-59fb7475b9-7wq59 1/1 Running 0 2m5s
spring-boot-app-59fb7475b9-r89gb 1/1 Running 0 2m5s
task-pv-pod 1/1 Running 3 (69m ago) 57d
[mahmoud@controller ~]$
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.


Apr 8 02:15
Dashboard [Jenkins]
DeepSeek - Into the Unk
my-app - Application Det
Jenkins-Zero-To-Hero/ja
Not secure
https://192.168.15.134:10000/applications/argocd/my-app?view=tree&resource=
argo
v2.14.6+fe2a6e9
Applications
Settings
User Info
Documentation
Resource filters
NAME
KINDS
SYNC STATUS
Synced 2
OutOfSync 0
HEALTH STATUS
Progressing 0
Suspended 0
Healthy 5
Degraded 0
Missing 0
Unknown 0
Applications / my-app
APPLICATION DETAILS TREE
DETAILS
DIFF
SYNC
SYNC STATUS
HISTORY AND ROLLBACK
DELETE
REFRESH
Log out
APP HEALTH
Healthy
SYNC STATUS
Synced to main (3028953)
Auto sync is not enabled.
Author: Abhishek Veeramalla <abhishek.veeramalla@gmail.com> -
Comment: Merge pull request #427 from karthik3491/patch-1
LAST SYNC
Sync OK to 3028953
Succeeded 6 minutes ago (Tue Apr 08 2025 02:09:15 GMT+0200)
Author: Abhishek Veeramalla <abhishek.veeramalla@gmail.com> -
Comment: Merge pull request #427 from karthik3491/patch-1
100%
my-app
spring-boot-app-service
spring-boot-app-service
spring-boot-app-service-nrv9n
spring-boot-app
spring-boot-app-59fb7475b9
spring-boot-app-59fb7475b9-...
spring-boot-app-59fb7475b9-...