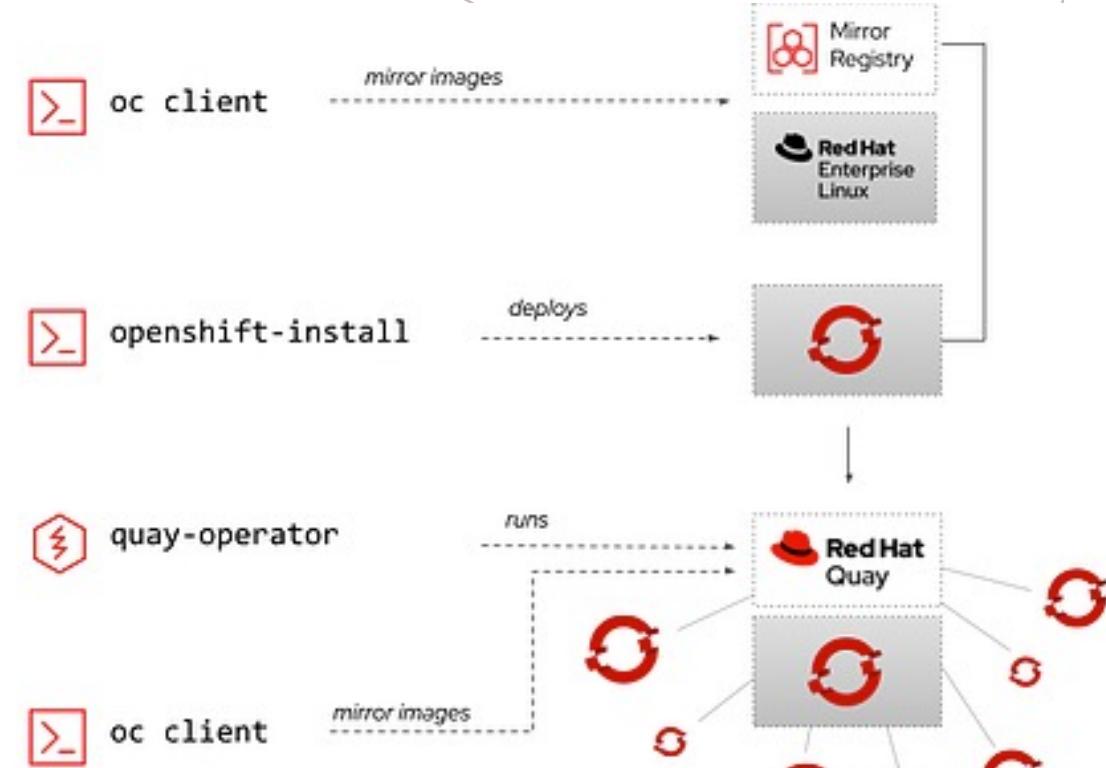


MIRROR REGISTRY FOR OPENSHIFT

GLENN WEST
(GWEST@REDHAT.COM)

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WHY?

- Mirror Registry is a minimal streamlined deployment of Quay on a single node with local disk.
- Provides a quay registry for disconnected install and bootstrap of cluster.
- Designed as a “appliance” that runs on RHEL 8 and Podman 8
- Configures mirror registry on local machine or a given target host
- Setup for auto-start
- Really useful in lab/developer for quick repeatable installs

SLA / DOWNSIDE

- Update is tied to uptime of a single host running it, clustered deployments are not supported (If needed use Red Hat Quay)
- Storage is local filesystem storage with no built-in replication, only store images that can easily be downloaded again if don't have a SAN
- Mirror Registry Down cannot:
 - Perform cold start (kubelet dependency)
 - Add additional nodes or reboot nodes
 - Update to newer versions / update OLM Operators
 - Perform node maintenance / failover workloads (unless images in cache)

INTENDED USAGE

- OpenShift Core images
- Openshift clients
- Operator Catalogs
- Sample image streams
- Custom monitoring agents
- Service few or single OpenShift Hub Cluster

ITS NOT FOR

- Custom Application Images
- Production business workloads
- Non-Infrastructure clusters that require high availability
- Cluster that are frequently scaled in size
- Single Node Clusters (Boot Dependency)
- Serving many clusters as central registry

LEASONS LEARNED

- Use RHEL 8.5 VM or bare metal dedicated host
- It burns storage like it going out of style – Make sure your disk size is big enough (Mine is VM, but had to resize after install).
- Install podman (yum install podman) first
- Clients can be pulled from download version.
- Must do login for the mirror to work
- Must edit install-config.yml to use the registry

MY CONFIG

- Vm on ESXI 7.0
- 2 cpus
- 2 GB memory
- 800 GB Disk
- Configured as: registry.gw.lo

Hardware Configuration	
► CPU	2 vCPUs
► Memory	2 GB
► Hard disk 1	800 GB
► USB controller	USB 2.0
► Network adapter 1	VM Network (Connected)
► Video card	16 MB
► CD/DVD drive 1	ATAPI
► Others	Additional Hardware

HOW TO MIRROR

```
[root@registry registry]# cat mirror.sh
echo "Mirroring " $1
export OCP_RELEASE=$1
export LOCAL_REGISTRY='registry.gw.lo:8443'
export LOCAL_REPOSITORY='ocp4/openshift4'
export PRODUCT_REPO='openshift-release-dev'
export LOCAL_SECRET_JSON='/home/registry/pull-secret.txt'
export RELEASE_NAME="ocp-release"
export ARCHITECTURE='x86_64'
export REMOVABLE_MEDIA_PATH='/home/registry/images'
podman login -u init -p Ts3Fz4M2BbUY08icf76rGae1m9LhuXW5 registry.gw.lo:8443 --tls-verify=false
oc adm release mirror -a ${LOCAL_SECRET_JSON} --from=quay.io/${PRODUCT_REPO}/${RELEASE_NAME}:${OCP_RELEASE}-${ARCHITECTURE} --to=${LOCAL_REGISTRY}/${LOCAL_REPOSITORY} --to-release-image=${LOCAL_REGISTRY}/${LOCAL_REPOSITORY}:${OCP_RELEASE}-${ARCHITECTURE} --dry-run > dryrun.out
oc adm release mirror -a ${LOCAL_SECRET_JSON} --to-dir=${REMOVABLE_MEDIA_PATH}/mirror quay.io/${PRODUCT_REPO}/${RELEASE_NAME}:${OCP_RELEASE}-${ARCHITECTURE} > copylocal.out
oc image mirror --insecure=true -a ${LOCAL_SECRET_JSON} --from-dir=${REMOVABLE_MEDIA_PATH}/mirror "file://openshift/release:${OCP_RELEASE}*" ${LOCAL_REGISTRY}/${LOCAL_REPOSITORY} > copyregistry.out
oc adm release extract --insecure=true -a ${LOCAL_SECRET_JSON} --command=openshift-install "${LOCAL_REGISTRY}/${LOCAL_REPOSITORY}:${OCP_RELEASE}-${ARCHITECTURE}"
rm -r -f /home/registry/images
```

DEMO OF MIRRORING

- Runn mirror.sh on registry machine
- Takes about 5-10 minutes
- Script example is at:
 - <https://github.com/glennswest/mirrorregistry/blob/main/mirror.sh>
- Known Issues:
 - Oc release mirror does not return failing error code if error occurs
 - (I don't check in example anyway) (Customer reported bug)

```
[root@localhost ~]# cd /home/registry/
[[root@localhost registry]# ./mirror.sh 4.9.12
Mirroring 4.9.12
Login Succeeded!
info: Mirroring 141 images to registry.gw.lo:8443/ocp4/openshift4 ...
registry.gw.lo:8443/
ocp4/openshift4
blobs:
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```

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quay.io/openshift-release-dev/ocp-v4.0-art-dev	sha256:ff3c954207c8bbb1ccb4960c24debfc4d86b57cf88dfe1bf04f6e57fd01b9e05	105.2MiB
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quay.io/openshift-release-dev/ocp-v4.0-art-dev	sha256:fe5dc203b1d8cbc03e537a6927ba2bdd90ccabb2605396e93eb4bd63cf693ece	118.1MiB
quay.io/openshift-release-dev/ocp-v4.0-art-dev	sha256:e4c859ae5a10f95d281d436cef542d499f725808a06a36581af67cd53aadca8c	120.7MiB
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manifests:

sha256:00bfbe7800a9c803d13e666122a7b1f52bea6e53b0fb2352d8566d1e75759708 -> 4.9.12-x86_64-keepalived-ipfailover
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sha256:183b7a1d2b4d3600a7251eda82f90ff45d4b5324b3bfdb6a091aa735fcff4be -> 4.9.12-x86_64-cluster-version-operator
sha256:18740b88ca23a49a1cbbf3be74bf96ff536e961bb11235d4539cffccda7101ed -> 4.9.12-x86_64-kuryr-cni
sha256:1938512df87a22d0a3c4f9d7aafa9557d7268f3511b52f9494946bb7478bc2da -> 4.9.12-x86_64-ovirt-machine-controllers
sha256:19ac6ad2cac43fd4134dfed13168ac0761a014ec55d277eb4d1259caac757b04 -> 4.9.12-x86_64-cloud-credential-operator
sha256:1bbe2e9e053350f5af04d80e9a088fb6cc5ca7898b8c1dfdeb5269a4beffffa60 -> 4.9.12-x86_64-cluster-node-tuning-operator
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sha256:22e31d53a7c6a92176d5a183fd213fff4e2e68c343ccf6cca9c7fc1363e34836 -> 4.9.12-x86_64-multus-cni
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sha256:235f6b6a1c9c41dbf3b8867bdb25da59c5e3a15af93b61fb13b4b5f41814d954 -> 4.9.12-x86_64-cluster-policy-controller

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sha256:251f6fcf7b079421f5ed480db37715ce1fc35e4bbbf859b3ffc449b84d8fd246 -> 4.9.12-x86_64-baremetal-operator
sha256:279a3393fb0c344b410de5aed4702ae41c49382a5c271c5a6d915defa72c47a -> 4.9.12-x86_64-jenkins-agent-nodejs
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sha256:2ddae06a7ca8031611b8ec5a63050195a5b747c66289b8ad810bc8da73aa58d4 -> 4.9.12-x86_64-ironic-hardware-inventory-recorder
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sha256:4b979717b90adb7f1758e00403495f09a24e53bc537dbd2eb69398b83e3d8819 -> 4.9.12-x86_64-kube-state-metrics
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sha256:50e0b3eced37efe7c94f746e0260d4750144962ef16ab334b93c08b3635f946c -> 4.9.12-x86_64-csi-snapshot-controller
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sha256:66bf4dc3d0a3f0559c48d7dc7b9b45af7c90e5b6be704421362645d225c09cf8 -> 4.9.12-x86_64-azure-cloud-controller-manager
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sha256:cff70e2271d5bcc26426cf3f22f3439219677e6175fc当地00c2e5a5da9379d5d6 -> 4.9.12-x86_64-jenkins-agent-maven
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sha256:f0d490ad627c935e07384b942859a938a8445e66486450919537d5bac8f92f62 -> 4.9.12-x86_64-cluster-baremetal-operator
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sha256:f83965a48127fc265ef40ce6037df806980a088f8c83798be5b91e5cc09a706 -> 4.9.12-x86_64-ironic-machine-os-downloader
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sha256:fd7ce3da297b589c7b3c34f6dc820f4d71a51ec367424749e76fbfad06298456 -> 4.9.12-x86_64-baremetal-runtimecfg
sha256:fe552892df8d59716997e8149a384ef65cade7610de3264652eb77e2d93575ed -> 4.9.12-x86_64-cluster-kube-apiserver-operator
stats: shared=5 unique=285 size=9.54GiB ratio=0.99

phase 0:

registry.gw.lo:8443 ocp4/openshift4 blobs=290 mounts=0 manifests=141 shared=5

```
info: Planning completed in 27.34s
info: Dry run complete
info: Mirroring 141 images to file://openshift/release ...
<dir>
  openshift/release
    blobs:
      quay.io/openshift-release-dev/ocp-release sha256:816fde8d07a680fad8d69eabf0d5d7d65289b631f0317a961928036453091a71 1.727KiB
      quay.io/openshift-release-dev/ocp-release sha256:47aa3ed2034c4f27622b989b26c06087de17067268a19a1b3642a7e2686cd1a3 1.747KiB
      quay.io/openshift-release-dev/ocp-release sha256:329a959bf930d1e3a71ad92ea2604143a09f8bfdcd7e40ffe34dbc7981417cf 538.6KiB
      quay.io/openshift-release-dev/ocp-release sha256:f43eacb86576fcf775abc5d058b804eb2040e3e6dd57d232dd9b0af2c9c64d31 10.91MiB
      quay.io/openshift-release-dev/ocp-release sha256:24e8d2e218b03efbd1c2548e6c8c7fc5a216edb5f2fe7e6e83a49fcfa53d1018a 14.83MiB
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  blobs:
    quay.io/openshift-release-dev/ocp-v4.0-art-dev sha256:47aa3ed2034c4f27622b989b26c06087de17067268a19a1b3642a7e2686cd1a3 1.747KiB
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manifests:

sha256:00bfbe7800a9c803d13e666122a7b1f52bea6e53b0fb2352d8566d1e75759708 -> 4.9.12-x86_64-keepalived-ipfailover
sha256:0213887c325d3967d122fe875b45c9259e2b8388db9dc4e0a25c0561414b8737 -> 4.9.12-x86_64-aws-ebs-csi-driver
sha256:0305702b3b7208c339c5df376aaacf6992465e34490bc16c2d66e423039b2b06 -> 4.9.12-x86_64-insights-operator
sha256:0310a7b9ec788788a2a6324475add611b5c5304511fe27e7444500fdfefbc6ef0 -> 4.9.12-x86_64-ironic-static-ip-manager
sha256:038452cc237d09fbbea348a454007760fb2d04e1e2439e931c505665c2c98071 -> 4.9.12-x86_64-haproxy-router
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sha256:0fdd27a12ee71d1268ef2e7c4cfe8dbdd3a86e3010f77db3f2e530b928fa2a42 -> 4.9.12-x86_64-csi-node-driver-registrar
sha256:1141f74833abe8de6384022fb7a800171640a40464a82669421517f5f7d2a128 -> 4.9.12-x86_64-csi-external-snapshotter
sha256:119ce8d95beaef7fcc420fb1acc6d311a1a6309a371a1ccc427b64a7f2d1e371 -> 4.9.12-x86_64-csi-external-provisioner
sha256:1267dd9b35b81041888212be03415b2fab37d1ac9e0fb4d9ddcf60c72f7a99ad -> 4.9.12-x86_64-container-networking-plugins
sha256:13a775771eb0fbb24216f5cbaeab394426671bf5d7a5aa23268607e51b59ecbd -> 4.9.12-x86_64-jenkins-agent-base
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sha256:1938512df87a22d0a3c4f9d7aafa9557d7268f3511b52f9494946bb7478bc2da -> 4.9.12-x86_64-ovirt-machine-controllers
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sha256:33001ffab5cba9aaff19e475e0118ea158c99797bf6f3e210832f129ac34d71c -> 4.9.12-x86_64-cluster-kube-storage-version-migrator-operator
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sha256:4b979717b90adb7f1758e00403495f09a24e53bc537dbd2eb69398b83e3d8819 -> 4.9.12-x86_64-kube-state-metrics
sha256:4f4021f6a725ee1bc3c393535742b720ee2fc5ffc978849a2b67fc437debc283 -> 4.9.12-x86_64-prometheus-node-exporter
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sha256:9df074e84d628156a71c314708d4cc003e020d3e4948926e30654b5eb0c2a958 -> 4.9.12-x86_64-tests
sha256:9e2d384be6ebe5fc9c089ab3ed1e1f082c180aed520ee4ff306e46fa56c12728 -> 4.9.12-x86_64-baremetal-installer
sha256:9f56d95ed665c1442fb4ce0b6415dbecf17729372527c46570aeee5c372282a1e -> 4.9.12-x86_64-openstack-cinder-csi-driver
sha256:a4b8af157bd962a43aa8d44707743a6d743b70faeb72548c5a91869a50ae6b5e -> 4.9.12-x86_64-thanos
sha256:a4e51611597318e86a82389b481f49a0978d5deb403f705b14346161c0b62104 -> 4.9.12-x86_64-console-operator
sha256:a6322f222f98adc1585ff8777c73140a56ac3cdcd8a6949309884b79496bccb6 -> 4.9.12-x86_64-sdn
sha256:a928705d99ccf81cfb7c0ef07a515f67a488d7052a2d7ba34ddabaa140295d78 -> 4.9.12-x86_64-grafana
sha256:aaaec3417207330eaeb203f459bdd819c27bac1956f1d9f0684f42dc5a3807e6 -> 4.9.12-x86_64-cluster-update-keys
sha256:aaf0854244f356ccb3f1cd70356362ac5ef7a9f227e08128740306430fd75497 -> 4.9.12-x86_64-coredns
sha256:ad7e0cca53e098a448f9d5df9ad5410515ee1ed3c83dbbe8ab72fc8ae73b986c -> 4.9.12-x86_64-kube-proxy
sha256:b98f4e019aa3cae1ac333a8241bafdbe52caccfcacd7f640d1a7410dd33dd788 -> 4.9.12-x86_64-multus-whereabouts-ipam-cni
sha256:bb0a5b9d4d3d5c774d58e1f2f11abd260ea1b47e79c64047f753d04927b5c202 -> 4.9.12-x86_64-ironic
sha256:bb5f32d6a5294d211e7016a3aeefc1a02dd8ce3773747bcead61ab40f3a13366 -> 4.9.12-x86_64-operator-marketplace
sha256:bc6efcc92aa2dde7d917eb2922e3eb19eeeebcd4e8f19a499fc536fc2e45183ec -> 4.9.12-x86_64-cluster-dns-operator
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sha256:bc820dec82b685d589a6d71fea17baf28d7404d0351d7d91876476c4c2932c0c -> 4.9.12-x86_64-cluster-samples-operator
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sha256:c56c86d030185bda241514593970e80f75ae75af9bc6288388944bc2a1dfb1f -> 4.9.12-x86_64-pod
sha256:c5c4823cce587db60358f78f2a324a6def77930b0fa392a2939e04041b5a4a6b -> 4.9.12-x86_64-openstack-machine-controllers
sha256:c6124ae70fd1f19ada3d5930ffc912dd5a3fb09dcffabc6425e9e327a61528fa -> 4.9.12-x86_64-prom-label-proxy
sha256:ca8dc8a6e1a672565fb1db1bdf0bc49d1878bc9621b15b293334937d42a34972 -> 4.9.12-x86_64-openstack-cloud-controller-manager
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sha256:d622ce62d93f99c3f5e4ffdcaf19ee3c31f82630185b882c7bd4d332fc435cd -> 4.9.12-x86_64-multus-networkpolicy

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sha256:d74f9409782832026f98e261089bad47fa50be5282c2775dbe521f5fd0e0ee4 -> 4.9.12-x86_64-jenkins
sha256:d8c857820a05e64b271622508038330f411f08d87cedd16a3ac13095ed920b4b -> 4.9.12-x86_64-installer-artifacts
sha256:db28495dcf72f26368357ed71b745c3c7b5e2a40c787bc8a76440f16872a0dbc -> 4.9.12-x86_64-cluster-csi-snapshot-controller-operator
sha256:dd71b3cd08ce1e859e0e740a585827c9caa1341819d1121d92879873a127f5e2 -> 4.9.12-x86_64
sha256:df22255abc474a2b61b323925f76126fa2f8c99affb1c48c2a0eb16c4b4a1056 -> 4.9.12-x86_64-cluster-ingress-operator
sha256:e03cefa188318d283eb39b799950a3540d0cf14becf8995d391dff5dd0369a -> 4.9.12-x86_64-network-tools
sha256:e146605c1b75917d26c07268b361134aedaa68983b2e2b060c202420b8267aa45 -> 4.9.12-x86_64-oauth-proxy
sha256:e2998b64e69d5a903a76e5f47f1f9aba9b4f5db13f0dbe265c85121317c1cd33 -> 4.9.12-x86_64-configmap-reloader
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sha256:e79fb8754d7c01a60c1763fe39104343783a6498bf10254b4206eae532c1679e -> 4.9.12-x86_64-cluster-openshift-controller-manager-operator
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sha256:ea57963e5746607da7ce8070275abd301ab420ce767706d5b36972f64a0e450 -> 4.9.12-x86_64-must-gather
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sha256:efbc54ce84c0b4dd7fe7b3e6fa2e6cd488b57d9c6fe7d055ef6395ade51b5906 -> 4.9.12-x86_64-cluster-openshift-apiserver-operator
sha256:f0d490ad627c935e07384b942859a938a8445e66486450919537d5bac8f92f62 -> 4.9.12-x86_64-cluster-baremetal-operator
sha256:f22b23274a3f220805ef2b83502d9af379b6841dfbd593d526f072acd6c780dd -> 4.9.12-x86_64-cluster-machine-approver
sha256:f2a6bffb17480fb2caa5a52512efa348a09b960d23782d02ec8733df948dbff6 -> 4.9.12-x86_64-csi-driver-nfs
sha256:f5628b30aa047fe32cba9308c70c581f7d9812f40a3e651a84f0532af184bfd2 -> 4.9.12-x86_64-machine-os-content
sha256:f60434187e593c079d98e94b6ba69bce34e5daa5ac161e834827d594b070592b -> 4.9.12-x86_64-hyperkube
sha256:f7ce7247375fa57b2be95733fb26a85751a5f41b28652e96612bea2ee6a25442 -> 4.9.12-x86_64-cluster-cloud-controller-manager-operator
sha256:f83965a48127fcfd265ef40ce6037df806980a088f8c83798be5b91e5cc09a706 -> 4.9.12-x86_64-ironic-machine-os-downloader
sha256:fd41b7237cac235fead9bda6dc9bf5c6cbde163ebf9d9249f33065d5ceadded0 -> 4.9.12-x86_64-etcd
sha256:fd7ce3da297b589c7b3c34f6dc820f4d71a51ec367424749e76fbfad06298456 -> 4.9.12-x86_64-baremetal-runtimecfg
sha256:fe552892df8d59716997e8149a384ef65cade7610de3264652eb77e2d93575ed -> 4.9.12-x86_64-cluster-kube-apiserver-operator
stats: shared=5 unique=285 size=9.54GiB ratio=0.99
```

phase 0:

```
openshift/release blobs=290 mounts=0 manifests=141 shared=5
```

info: Planning completed in 27.31s

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```

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ocp4/openshift4
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file://openshift/release sha256:3b810e182d6c6693732816a47781515d8ee9eb8a610252eb5578e2dde1c666bb 480.7MiB
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manifests:

sha256:00bfbe7800a9c803d13e666122a7b1f52bea6e53b0fb2352d8566d1e75759708 -> 4.9.12-x86_64-keepalived-ipfailover
sha256:0213887c325d3967d122fe875b45c9259e2b8388db9dc4e0a25c0561414b8737 -> 4.9.12-x86_64-aws-ebs-csi-driver
sha256:0305702b3b7208c339c5df376aaacf6992465e34490bc16c2d66e423039b2b06 -> 4.9.12-x86_64-insights-operator
sha256:0310a7b9ec788788a2a6324475add611b5c5304511fe27e7444500fdefbc6ef0 -> 4.9.12-x86_64-ironic-static-ip-manager
sha256:038452cc237d09fbbea348a454007760fb2d04e1e2439e931c505665c2c98071 -> 4.9.12-x86_64-haproxy-router
sha256:03cbd8048e00835d29ced43ddb4548e979e51dda727239cfdf027c9ef47339cf -> 4.9.12-x86_64-egress-router-cni
sha256:0503429fe988d46d901cd8c625c5ca3e27d0eddd151cd6ee2af346c6397fbffe -> 4.9.12-x86_64-baremetal-machine-controllers
sha256:051c76b923d9826bd577aeb1e176a4096a9af47e9a7c1819158282a5a417170b -> 4.9.12-x86_64-machine-config-operator
sha256:06ca4e45c6ec3aba104a066905322e35b44c8a2c293d9f2821c83ed2cb743633 -> 4.9.12-x86_64-prometheus-config-reloader
sha256:07c709f51f7383720c2acca830b3441c188ab0f077616d075a5a6bd9cbd1a2e4 -> 4.9.12-x86_64-cluster-storage-operator
sha256:0b8a09ab3c370f7ef89319f3ff66cc346bbfc1cc48b58c2d40ef7d61b33a349c -> 4.9.12-x86_64-multus-route-override-cni
sha256:0d741e590eee37fd9708609dde99c68f0b8fba9d0d5cee172227037b7446e3c7 -> 4.9.12-x86_64-ironic-ipa-downloader
sha256:0e0a6328ea7449e2b3ecaa057f59f98cb49e2c71b60ea0d9a4f3d358ef472f36 -> 4.9.12-x86_64-ironic-inspector
sha256:0fdd27a12ee71d1268ef2e7c4cfe8dbdd3a86e3010f77db3f2e530b928fa2a42 -> 4.9.12-x86_64-csi-node-driver-registrar
sha256:1141f74833abe8de6384022fb7a800171640a40464a82669421517f5f7d2a128 -> 4.9.12-x86_64-csi-external-snapshotter
sha256:119ce8d95beaef7fcc420fb1acc6d311a1a6309a371a1ccc427b64a7f2d1e371 -> 4.9.12-x86_64-csi-external-provisioner
sha256:1267dd9b35b81041888212be03415b2fab37d1ac9e0fb4d9ddcf60c72f7a99ad -> 4.9.12-x86_64-container-networking-plugins

sha256:13a775771eb0fbb24216f5cbaeab394426671bf5d7a5aa23268607e51b59ecbd -> 4.9.12-x86_64-jenkins-agent-base
sha256:13bb02aabde612c09fe136b0ca02487cb5f48b9ddf871afbe0d4f2b4b1b66b3a -> 4.9.12-x86_64-csi-external-resizer
sha256:183b7a1d2b4d3600a7251eda82f90ff45d4b5324b3bfd8a091aa735fcff4be -> 4.9.12-x86_64-cluster-version-operator
sha256:18740b88ca23a49a1cbbf3be74bf96ff536e961bb11235d4539cffccda7101ed -> 4.9.12-x86_64-kuryr-cni
sha256:1938512df87a22d0a3c4f9d7aafa9557d7268f3511b52f9494946bb7478bc2da -> 4.9.12-x86_64-ovirt-machine-controllers
sha256:19ac6ad2cac43fd4134dfed13168ac0761a014ec55d277eb4d1259caac757b04 -> 4.9.12-x86_64-cloud-credential-operator
sha256:1bbe2e9e053350f5af04d80e9a088fb6cc5ca7898b8c1dfdeb5269a4beffa60 -> 4.9.12-x86_64-cluster-node-tuning-operator
sha256:214b7e2b9bece6260311a2dc28bfc12c379e37186c09582221ec1fe724a995d1 -> 4.9.12-x86_64-kuryr-controller
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sha256:235f6b6a1c9c41dbf3b8867bdb25da59c5e3a15af93b61fb13b4b5f41814d954 -> 4.9.12-x86_64-cluster-policy-controller
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sha256:279a3393fbb0c344b410de5aed4702ae41c49382a5c271c5a6d915defa72c47a -> 4.9.12-x86_64-jenkins-agent-nodejs
sha256:292d0fdbd28892d4952e0cd914cb4b1eca7b5b31dad3ff26abbbfe3ee57ea24e6 -> 4.9.12-x86_64-cli-artifacts
sha256:2ddae06a7ca8031611b8ec5a63050195a5b747c66289b8ad810bc8da73aa58d4 -> 4.9.12-x86_64-ironic-hardware-inventory-recorder
sha256:2fc2c9d9fae3070c00239ea3d0d1d9fa7477c99c296b17b2fc352794c535912e -> 4.9.12-x86_64-network-metrics-daemon
sha256:2ff95508332a75a0b0b50be84416297781946d0feb687df36c8082baff564857 -> 4.9.12-x86_64-prometheus-alertmanager
sha256:33001ffab5cba9aaff19e475e0118ea158c99797bf6f3e210832f129ac34d71c -> 4.9.12-x86_64-cluster-kube-storage-version-migrator-operator
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sha256:37e092de518988e67fb60bc5aaaa365058b6be6a1877613af5d12e2c4a2ec129 -> 4.9.12-x86_64-oauth-server
sha256:3e4dd326434d115808c7bff14d8a38806c6757d928f2359737496fe6a32b7b4e -> 4.9.12-x86_64-cluster-kube-controller-manager-operator
sha256:40302e29af4c6e3e9a6e73544a2fd4239da691b0afde937e76d078a642d30817 -> 4.9.12-x86_64-service-ca-operator
sha256:406384d7815dc29c85c903318b1a98a2f3bd65b440a9344b71d6ddfa3e98c287 -> 4.9.12-x86_64-ovirt-csi-driver-operator
sha256:426f99588fbce292824dba75372675b83daea64a1cf5d321fb5e4182fc43867e -> 4.9.12-x86_64-cli
sha256:42eb156593fbc94fa12eaaa5938c8335d500e222be370475ee19a57ad7f7f42a8 -> 4.9.12-x86_64-mdns-publisher
sha256:43150eb3f35005a1c04fa4ed6fef3c8cd3199991658a88530d28cd1a32a5597a -> 4.9.12-x86_64-aws-cloud-controller-manager
sha256:4446e75f22adf0e091bb337da46174ba7e82b394da5b04a2dc9c60b749c7cd02 -> 4.9.12-x86_64-vsphere-problem-detector
sha256:46d7b63794f6ceec9fbcc63bbf170aff5ee3152ccb24ba51b8167ac59a30ca6a -> 4.9.12-x86_64-cluster-etcd-operator
sha256:4b14ffcea52f9eb5952546634cb26bfb1d523a4dd81382021c71673fed91efa2 -> 4.9.12-x86_64-operator-lifecycle-manager
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sha256:4b979717b90adb7f1758e00403495f09a24e53bc537dbd2eb69398b83e3d8819 -> 4.9.12-x86_64-kube-state-metrics
sha256:4f4021f6a725ee1bc3c393535742b720ee2fc5ffc978849a2b67fc437debc283 -> 4.9.12-x86_64-prometheus-node-exporter
sha256:50e0b3eced37efe7c94f746e0260d4750144962ef16ab334b93c08b3635f946c -> 4.9.12-x86_64-csi-snapshot-controller
sha256:550304f5ac4929e68b97108da732b8271997dee09db91a2d4fb55d3b143ad7eb -> 4.9.12-x86_64-aws-machine-controllers
sha256:5982ecdb04297b4c546da927abbbb9bdaf772737e794218c20b43a5d4ede9d22 -> 4.9.12-x86_64-k8s-prometheus-adapter
sha256:5a947cf105f932656f89e0a31973fec637a756ea0a66bea80fb623c37a91e7e0 -> 4.9.12-x86_64-installer
sha256:5c4039e2846f73e3703f63a2aa52a27a85d8c3c9c3a076e05e4aac33301a5715 -> 4.9.12-x86_64-cluster-autoscaler
sha256:5e33f9d095952866b9743cc8268fb740cce6d93439f00ce333a2de1e5974837e -> 4.9.12-x86_64-kube-rbac-proxy
sha256:63149966fd4008c90409477bd30490445d8f11dd484009fdcbd665237d1e85a9 -> 4.9.12-x86_64-multus-admission-controller
sha256:644b470e3cc0e417c8766bdecaa4944ded16267a542fc93d477b364a6905fbe7 -> 4.9.12-x86_64-csi-driver-manila-operator
sha256:65f83e849f9cb76bad217bceee4e34a30d062e17a2a1a80237462d26d98e8870 -> 4.9.12-x86_64-gcp-machine-controllers

sha256:66996ef32742e67e768985c759f248b5af8b503403c9844e535f3a1ee4c24c07 -> 4.9.12-x86_64-openstack-cinder-csi-driver-operator
sha256:66bf4dc3d0a3f0559c48d7dc7b9b45af7c90e5b6be704421362645d225c09cf8 -> 4.9.12-x86_64-azure-cloud-controller-manager
sha256:67cb844c3e059ef41d746d6132ff1a3cf4240bf959191fbf31a680461b95397f -> 4.9.12-x86_64-vsphere-csi-driver-syncer
sha256:6a78c524aab5bc95c671811b2c76d59a6c2d394c8f9ba3f2a92bc05a780c783a -> 4.9.12-x86_64-cluster-image-registry-operator
sha256:6e2a44337dbe5bf89d6f0f16124df38bb86f71c866a9ae38badb450e58e7f42c -> 4.9.12-x86_64-operator-registry
sha256:6e68ba361e31be5dd1b3ecd0fe5318b337b1915d5db2d8b635cb6f8bb8ee7f97 -> 4.9.12-x86_64-machine-api-operator
sha256:71a76b1a54d9b9ccba384c353db5777f4a3b37fff2c7027225bb534d09565615 -> 4.9.12-x86_64-openshift-apiserver
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sha256:72d072f33452fc8c5fb0751ac3743688cc4d44959654bb0747dad000218f6f05 -> 4.9.12-x86_64-azure-machine-controllers
sha256:79c8e38ac956a6be5ba8dfbefc10e30ad0b5d3229ea8951fd9745b57fa5c6a90 -> 4.9.12-x86_64-cluster-autoscaler-operator
sha256:7b90fbbebf473c2e85acc23bd116c3d09750377f32a800ae09caeae101d34957 -> 4.9.12-x86_64-vsphere-csi-driver-operator
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sha256:7d78a787b5655292d4440942ae018ad5d1c985881c4e9d95d887d4f8450c7899 -> 4.9.12-x86_64-csi-livenessprobe
sha256:7f734c4f3a69377a667c97ef00642accf60f2f0020ab89531eea3d650f1a89ca -> 4.9.12-x86_64-ovirt-csi-driver
sha256:810097f053d1859d516ab784d975d41ae435ee91f5eaa7c90a02e643620c18fb -> 4.9.12-x86_64-cluster-network-operator
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sha256:82bfc9ea845d7948c362061afa266d7e3dc1465cec041371e99cb1bcb5056036 -> 4.9.12-x86_64-deployer
sha256:83bc064c1957b18d231d0befd2bf14bcbadb3ebe20ff3b21dc4b23f048aec547 -> 4.9.12-x86_64-gcp-pd-csi-driver-operator
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sha256:8ce4be01db73a940acf798ea8102dc06f340f3afec470a3af72abfe130114de9 -> 4.9.12-x86_64-prometheus-operator
sha256:94145128ec7805e478fada43a8a8ade8054fb50b56c97f159fe9da28a56851c7 -> 4.9.12-x86_64-telemeter
sha256:948def25e5c80edcc357064d740d78b97b8fa4f940f13d0b501714c7edf57a1 -> 4.9.12-x86_64-console
sha256:94926d57aaefa23376615302a14a96d4bca45dd6c3184a8595042b0ae847eb1b -> 4.9.12-x86_64-kube-storage-version-migrator
sha256:961b30e0ab62cf04d000c1eb8330e62ff2daf4545ee094d3c9acd4c443e3c5d2 -> 4.9.12-x86_64-docker-builder
sha256:96487fbdd3efaf1ef9c8e34bd17470095daa3dd01bf9c5c42e5c67ee99b21bbc -> 4.9.12-x86_64-aws-ebs-csi-driver-operator
sha256:9716b0f99225f7aa9680a8f07fc02c3a8233b010acd332d7c4651d5e0177de3f -> 4.9.12-x86_64-cluster-monitoring-operator
sha256:980d27d0eb312864f4dacf8f125c7a2ec6d507817045517ebfb80ea25601e1f6 -> 4.9.12-x86_64-cluster-config-operator
sha256:9df074e84d628156a71c314708d4cc003e020d3e4948926e30654b5eb0c2a958 -> 4.9.12-x86_64-tests
sha256:9e2d384be6ebe5fc9c089ab3ed1e1f082c180aed520ee4ff306e46fa56c12728 -> 4.9.12-x86_64-baremetal-installer
sha256:9f56d95ed665c1442fb4ce0b6415dbecf17729372527c46570aee5c372282a1e -> 4.9.12-x86_64-openstack-cinder-csi-driver
sha256:a4b8af157bd962a43aa8d44707743a6d743b70faeb72548c5a91869a50ae6b5e -> 4.9.12-x86_64-thanos
sha256:a4e51611597318e86a82389b481f49a0978d5deb403f705b14346161c0b62104 -> 4.9.12-x86_64-console-operator
sha256:a6322f222f98adc1585ff8777c73140a56ac3cdcd8a6949309884b79496bcbb6 -> 4.9.12-x86_64-sdn
sha256:a928705d99ccf81cfb7c0ef07a515f67a488d7052a2d7ba34ddabaa140295d78 -> 4.9.12-x86_64-grafana
sha256:aaaec3417207330eaeb203f459bdd819c27bac1956f1d9f0684f42dc5a3807e6 -> 4.9.12-x86_64-cluster-update-keys
sha256:aaf0854244f356ccb3f1cd70356362ac5ef7a9f227e08128740306430fd75497 -> 4.9.12-x86_64-coredns
sha256:ad7e0cca53e098a448f9d5df9ad5410515ee1ed3c83dbbe8ab72fc8ae73b986c -> 4.9.12-x86_64-kube-proxy
sha256:b98f4e019aa3cae1ac333a8241bafdbe52caccfcfdcd7f640d1a7410dd33dd788 -> 4.9.12-x86_64-multus-whereabouts-ipam-cni
sha256:bb0a5b9d4d3d5c774d58e1f2f11abd260ea1b47e79c64047f753d04927b5c202 -> 4.9.12-x86_64-ironic
sha256:bb5f32d6a5294d211e7016a3aeefc1a02dd8ce3773747bcead61ab40f3a13366 -> 4.9.12-x86_64-operator-marketplace
sha256:bc6efcc92aa2dde7d917eb2922e3eb19eebcd4e8f19a499fc536fc2e45183ec -> 4.9.12-x86_64-cluster-dns-operator
sha256:bc7227d80dc8f416eabc2bf1d326fa41ec9ab849b2a06291ef98d25a83f5ccb6 -> 4.9.12-x86_64-gcp-pd-csi-driver

sha256:bc820dec82b685d589a6d71fea17baf28d7404d0351d7d91876476c4c2932c0c -> 4.9.12-x86_64-cluster-samples-operator
sha256:bd81d21f0593cab25f321b000e8e18f5ff50fb741289261874fa332407b9da05 -> 4.9.12-x86_64-vsphere-csi-driver
sha256:c017f8b24e9d9a913456373c69dec63e3315ddae052ac6ad9cee25f856abe502 -> 4.9.12-x86_64-docker-registry
sha256:c10376143bb2fc51f72619cb7d45c8905d7c5a10b0150e1a1f65c54a90fff1bc -> 4.9.12-x86_64-csi-external-attacher
sha256:c56c86d030185bda241514593970e80f75ae75afd9bc6288388944bc2a1dfb1f -> 4.9.12-x86_64-pod
sha256:c5c4823cce587db60358f78f2a324a6def77930b0fa392a2939e04041b5a4a6b -> 4.9.12-x86_64-openstack-machine-controllers
sha256:c6124ae70fd1f19ada3d5930ffc912dd5a3fb09dcffabc6425e9e327a61528fa -> 4.9.12-x86_64-prom-label-proxy
sha256:ca8dc8a6e1a672565fb1db1bdf0bc49d1878bc9621b15b293334937d42a34972 -> 4.9.12-x86_64-openstack-cloud-controller-manager
sha256:cc04ac8cc0ebd5ac0b7bd69e27a5d3958d311b61e3f78ed896acc2445d5e1ba7 -> 4.9.12-x86_64-azure-cloud-node-manager
sha256:ccd64e8b56711ced7558d8e593ae32867cb2178ea73078f47d20bc7e2e56119b -> 4.9.12-x86_64-aws-pod-identity-webhook
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sha256:cff70e2271d5bcc26426cf3f22f3439219677e6175fcaa00c2e5a5da9379d5d6 -> 4.9.12-x86_64-jenkins-agent-maven
sha256:d622ce62d93f99c3f5e4ffdcaf19ee3c31f82630185b882c7bd4d332fc435cd -> 4.9.12-x86_64-multus-networkpolicy
sha256:d74f9409782832026f98e261089bad47fa50be5282c2775dbe521f5fda0e0ee4 -> 4.9.12-x86_64-jenkins
sha256:d8c857820a05e64b271622508038330f411f08d87cedd16a3ac13095ed920b4b -> 4.9.12-x86_64-installer-artifacts
sha256:db28495dcf72f26368357ed71b745c3c7b5e2a40c787bc8a76440f16872a0dbc -> 4.9.12-x86_64-cluster-csi-snapshot-controller-operator
sha256:dd71b3cd08ce1e859e0e740a585827c9caa1341819d1121d92879873a127f5e2 -> 4.9.12-x86_64
sha256:df22255abc474a2b61b323925f76126fa2f8c99affb1c48c2a0eb16c4b4a1056 -> 4.9.12-x86_64-cluster-ingress-operator
sha256:e03cefa188318d283eb39b799950a3540d0cfe14becf8995d391dff5dd0369a -> 4.9.12-x86_64-network-tools
sha256:e146605c1b75917d26c07268b361134aeda68983b2e2b060c202420b8267aa45 -> 4.9.12-x86_64-oauth-proxy
sha256:e2998b64e69d5a903a76e5f47f1f9aba9b4f5db13f0dbe265c85121317c1cd33 -> 4.9.12-x86_64-configmap-reloader
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sha256:e79fb8754d7c01a60c1763fe39104343783a6498bf10254b4206ea532c1679e -> 4.9.12-x86_64-cluster-openshift-controller-manager-operator
sha256:e80f8718cc38cb025680205d890d4f622f975297bc437cf52ae1fbce0e89bf1c -> 4.9.12-x86_64-cluster-authentication-operator
sha256:ea57963e5746607da7ce8070275abd301ab420ce767706d5b36972f64a0e450 -> 4.9.12-x86_64-must-gather
sha256:edc8e8eafe3f73633f3ffe4a393e21f4495d518e9f044f127a3616315cdd78b4 -> 4.9.12-x86_64-openshift-controller-manager
sha256:ee96cf6a6fc395bb5432ba2322c3fa740832ebe490211e53b401f35cbe615636 -> 4.9.12-x86_64-csi-snapshot-validation-webhook
sha256:efbc54ce84c0b4dd7fe7b3e6fa2e6cd488b57d9c6fe7d055ef6395ade51b5906 -> 4.9.12-x86_64-cluster-openshift-apiserver-operator
sha256:f0d490ad627c935e07384b942859a938a8445e66486450919537d5bac8f92f62 -> 4.9.12-x86_64-cluster-baremetal-operator
sha256:f22b23274a3f220805ef2b83502d9af379b6841dfbd593d526f072acd6c780dd -> 4.9.12-x86_64-cluster-machine-approver
sha256:f2a6bffb17480fb2caa5a52512efa348a09b960d23782d02ec8733df948dbff6 -> 4.9.12-x86_64-csi-driver-nfs
sha256:f5628b30aa047fe32cba9308c70c581f7d9812f40a3e651a84f0532af184bfd2 -> 4.9.12-x86_64-machine-os-content
sha256:f60434187e593c079d98e94b6ba69bce34e5daa5ac161e834827d594b070592b -> 4.9.12-x86_64-hyperkube
sha256:f7ce7247375fa57b2be95733fb26a85751a5f41b28652e96612bea2ee6a25442 -> 4.9.12-x86_64-cluster-cloud-controller-manager-operator
sha256:f83965a48127fc265ef40ce6037df806980a088f8c83798be5b91e5cc09a706 -> 4.9.12-x86_64-ironic-machine-os-downloader
sha256:fd41b7237cac235fead9bda6dc9bf5c6cbde163ebf9d9249f33065d5ceadded0 -> 4.9.12-x86_64-etcd
sha256:fd7ce3da297b589c7b3c34f6dc820f4d71a51ec367424749e76fbfad06298456 -> 4.9.12-x86_64-baremetal-runtimecfg
sha256:fe552892df8d59716997e8149a384ef65cade7610de3264652eb77e2d93575ed -> 4.9.12-x86_64-cluster-kube-apiserver-operator

stats: shared=0 unique=290 size=9.54GiB ratio=1.00

phase 0:

registry.gw.lo:8443 ocp4/openshift4 blobs=290 mounts=0 manifests=141 shared=0

info: Planning completed in 5.25s

uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:e0689321defa2640dae332b26eacfab33fb58e049c55cf019fd292ddad7f667 21.33MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:1510e1321086e5f3b5b1cbc590cfaf8fbf280c3419327baf3a13e37efceeb1f4 11.85MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:64b33fc67935dc72e3655d43ed47521271c1769db6543d60393961a44db6ec4 14.15MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:75cf9943196266b8ca3decb117fc15d028188f8b06394bed9ff8a29b602c4eb 32.77MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:99febc066ce59eeee9a0af22e978211306d1d845e5e341fdb681fc2b9276ad15 9.534MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c331a0acf68a1a55bfb70ba03240ad4027bcc34a50d76e703a34bdc9ead5448 1.029GiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:b230f550b80daed3062f18bfc5d3096d950e92cbbb4400857f911fb67a8694 422.2MiB
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uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:961d94212659ea340ae5a8de1a33c2b9b9739b01ae398818fe0d61bb9a149433 4.802MiB
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uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:e4c859ae5a10f95d281d436cef542d499f725808a06a36581af67cd53aadca8c 120.7MiB
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uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:89219d8ed23382a9a7e509334773168d5239ba94ba65ce6ce0b11263ca3cddf9 399.5MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:6df6462667e06155de3c18d25b7ece40cba6e033d7669182f1d768141d24489a 21.11MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:8040e99619ff2ad3b90dd7097213255f6460acd582a9d65f32a5388f23ba5189 2.716MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:d55b5908424f75afade301b39b04da9380352d16942f02bcd848a226430a0fe4 25.39MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:eeafc8c7f83959bb1f80b0bd51f4854602d5e5ec39cf0b4cc4bab77b78b93184 29.15MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:bc859789b7d44f07fe0beb389effbf1bac3f9a6bc6f00bb5af3dabcaa5773089 124.4MiB

uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:71bcd49f86cd22699a4b211757cb6f80bbc0e818857724dd706368fe0b59ace6 21.6MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:4c4b1b44eece5abd517ef2484e063965fe69a307cff5d71e206fbe2b267bcdf7 151MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:fe5dc203b1d8cbc03e537a6927ba2bdd90ccabb2605396e93eb4bd63cf693ece 118.1MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:9e3d58e52d931408991ea9dc68a24d3bbf5588ac2aef3b394877f2c3f30f83fa 40.88MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:dea9e8cef0a45950376056981f29edc990600bb6ee823d7575f93880abdc6802 25.35MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:2c2701d400bba41b506ca073ed4c31f05ede23ff6c0b593be732cab74995617d 33.48MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c2b12b53ad82ad320f26ad52dcfa836d5de9e7aaef2e0d4ceeb46005d54298e4 29.64MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:487bb488b5f1a0b6a1f10ae974c1f0a41cfa9e2e5c48e77ebc690e19aecdb5ec 13.21MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:af9e7f82057be11519f70d1c772eba2b53f065e6e3074693b7ae7636870276b3 19.7MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:28a02fd1a277f9b5339f958c69fc2c6fd87d38201d8dc01e678bd27b6dfa0b3c 30.21MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:a6effd552deb9b8f8d3ca0c9327c5c96f6e5f89b17c58ac5487e4f88ffa06 25.81MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:3a6e00b8ea27fc20d489ee3a3141e9c804510b6dc37851462bace5aef21b586 374.5KiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:97231ef0121ebd6dee8221a8a6bf6a35214931b90b84d060d468da406f8c8c0b 13.57MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:ccfc9d78a4fdf29533d57e550fb6a4453c74f26e6aa2ba0e7d046f2b01cdd2f2 18.1MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:fb9a7c404864ab3cd0d646b95c45595801023671074fa089b5ffa4e97da76047 254.4MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:e45eeb718043804cd10f0049223e076844484edbf045db7ffb37c9ac523a9943 68.26MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:24e8d2e218b03efbd1c2548e6c8c7fc5a216edb5f2fe7e6e83a49fca53d1018a 14.83MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c3de55fc203c511e333741faaee84b6517805d5c27c13932fecef228e51bbe66 103.8MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:44b174cbaec38dbeb1b584e1e859dd9fe3121200bd2e4e986d8445e45390d7d5 31.12MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c4d797b450eea478878adc15410a4499670377c6c6b940dfbf7168e9404b0bcb 90.54MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:d3c48a7c60a44c138beb6caf24c081f4c24e5698b10d8024a18e9a912cbad7b1 9.185MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:a2720d25185cc14165349ec1e30fab1023a419ef28367131eee8f78e77f13711 18.92MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:15f3fa57e65d16ed976bea80fc7c8aed0e20f8af3069af85a36fee5cd0dbe8ae 29.78MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:47fcdb58764cbacb47957b17b6eda0407b23aba7fa416fae8b2598c4e98be2ba 25.98MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:54b906177a4d2b0618aedc9a81602136205bb4c9d7d9095b4837aefea18b795c 18.02MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:70c818a0cf5c5bc95d429d6410492ad9b5d7aab577ae4758be9ba6937b83117c 24.93MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:eb5e55c4ee159cd075c2a983e0d8f2eaec5a26937cb96198afab484d08514ce2 132.6MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:96a8fc5ce7b43f667984457b889a915a0c35b9096735d7774541cf949a913fee 16.12MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:7f7255527d260b403875e8180cff4ca9f09f893c42eaf2ed65cf09a7ef22cd2c 30.19MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:b332c9645cde8561399e4187dddb72c4c5afc9ff8e4a18bba42c5ea429d241a0 61.78MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:cac26e82c2fc50c1a4ef9b7d94bd1c9a5f87a5aefcb8416dd0f7dd8acd3a956 93.69MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:3b810e182d6c6693732816a47781515d8ee9eb8a610252eb5578e2dde1c666bb 480.7MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:a048f6705d3b7c5b982e961681217ca551688ecad9115486e6d97f8629269b3f 6.042MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:86cb77f62affe2b91d2ddff91410d783bebc062ebb0700b2f58a35b13209d069 39.35MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:99b8ec24066fc655b57a0dbd8702783b7a34230ed106d80a4e3c526a04865807 461MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:d6c329dfb7dfd7b4b4b92a4e06403b8026893c472691b505b031859a801f0760 98.93MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:494ae1847e4a4b92194f4d671452abf443971e1e7042cf36d835f896a60476cd 29.63MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:4879a344e5603fe8e4431825a448491bb7b7e4a7f39d09fdb15ecbc813e7183a 29.84MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:16eea94743037d8c322a890d0cd529d083b28ff4f266e3d237962dcbdda700f1 130MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:d5cf8b84525c9e9f9882d20fee8279ac7bcb095b4a20bfcf7645568bacd4bdbd 29.59MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:5788b7adfcea841704d4535e19a3993a6e69163cc15d74843b195965a90394ab 29.71MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:8bf8bc78d689926ba04c3686d18c5fc1677a8fe135e0a2ce77640d67faba6857 9.386MiB

```
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:ff3c954207c8bbb1ccb4960c24debfc4d86b57cf88dfe1bf04f6e57fd01b9e05 105.2MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:8c4766af87f820e1022f4fc8da3bb80aafe25dd2dc602950744cf658174fd 34.89MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:dd921d73823c8ffe10faac26ac98a806000032fc0ca2b792dec1d00c9d9390d8 37.69MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:9b405cb9eaf61b7c6f0edd309502994c027362a937b4cd8c026bb7221cdbebc6 44.97MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:4f57d0b5804e7850b608b24b21d0a8ec6fd6a78e7db02b5eb3a3974f7f4760b9 129.6MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:fa4e8e96f9912234c4251c398716789a2b4c507cc35bbe2c05faf2478548af51 86.39MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c054ab6c0de2e5ae8a76236b3129ab8ca2b2c52164c46b6b78dc785c5586d9bc 32.52MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:2ca1cf936896af116a210e77e6f498c38ca1c87a37fa7356edf217c823b5f996 27.21MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:9dca186a78952d3ba3f9a164d41ca3fb813006c266744eaae5315351aded142a 31.82MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:98b97d2851af2ea0a6cce7907eaf336ca293d3f4b6fde828af15a3ac76e5d9f1 435.8MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:d0dcc01a5b3643463e486c160e23fe07c87c400dbf0956cf1970bc2a78d66b9f 29.3MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:dff4b01fa9d2f8bcd80e406c77b4fee60068046c4ab75702cf2112973d4728e 29.61MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:b3f9c609e51e53e8c8ff67e48c5dea2e91a07fd95ff2a28ec0f074c5c24eadf3 49.21MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:e3b97e7499e547573709b41be392718bd8a5d9720e5bef46ced707e23054b8a 31.87MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:c67bab1e9cbd1d8eeb0384784480534fe1ba2b96eca6d3d28ebbe18e50a0e56 21.32MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:7c7945ce90493a58f102c766b284a8d127ce1c92d5acd0834deda4830a2c69f6 28.83MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:e279974983f64e83d636f72df3fb32ef3baeeba96e09357581426c332ce2446f 38.36MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:21d09198a26e9fdbce25ee36b2163783f6a131faf8841053fae55541ac569afa 9.22MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:0e39912dd5610986643adc8ca48fd4e1a397d6b9150ba311df28f5be0ed520fb 18.63MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:f43eacb86576cf775abc5d058b804eb2040e3e6dd57d232dd9b0af2c9c64d31 10.91MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:f2c0dd9442146750ad68a5c6dad58f57a5c33ed3092e47ffdac96ba4c720fbb 60.97MiB
uploading: registry.gw.lo:8443/ocp4/openshift4 sha256:1455608b65152f6cb87418862117776ee5bc6433a5bf3f529391997fdabf976b 138.1MiB
info: Mirroring completed in 4m21.82s (38.48MB/s)
[root@localhost registry]#
```

READY TO DO INSTALL

- Can pull the installer from downloaded image

```
| export OCP_RELEASE=4.9.9
| export LOCAL_REGISTRY='registry.gw.lo:8443'
| export LOCAL_REPOSITORY='ocp4/openshift4'
| export PRODUCT_REPO='openshift-release-dev'
| export LOCAL_SECRET_JSON='/home/registry/pull-secret.txt'
| export RELEASE_NAME="ocp-release"
| export ARCHITECTURE='x86_64'
| export REMOVABLE_MEDIA_PATH='/home/registry/images'
| podman login -u init -p Ts3Fz4M2BbUY08icf76rGae1m9LhuXW5 registry.gw.lo:8443 --tls-verify=false
| oc adm release extract --insecure=true -a ${LOCAL_SECRET_JSON} --command=openshift-install-mac "${LOCAL_REGISTRY}/${LOCAL_REPOSITORY}:${OCP_RELEASE}-${ARCHITECTURE}"
```

CHANGES TO INSTALL-CONFIG.YAML

```
networking:
  clusterNetworks:
    - cidr: 10.128.0.0/14
      hostPrefix: 23
    #machineCIDR: 10.0.0.0/16
    #networkType: OpenShiftSDN
    networkType: OVNKubernetes
    serviceNetwork:
      - 172.30.0.0/16
  additionalTrustBundle: |
    -----BEGIN CERTIFICATE-----
    MIIDTzCCAjegAwIBAgIUYgFxId6TVBwu9oPrUYCVXIasfqAwDQYJKoZIhvcNAQEL
    ....exampleRpSJEKxS5vjZlQr8L2lRvmtrcAuSrXyr12WPAYaqDWfKeRDE
    XqfHb0vRmm7zYc4y1wGH9vhFLJaDsGLwptMo6LR2qzL7qwM=
    -----END CERTIFICATE-----
    -----BEGIN CERTIFICATE-----
    MIIDsTCCApmgAwIBAgIUBLvcvfU4pQhvlpbTGL4UAJr7m8gwDQYJKoZIhvcNAQEL
    ....exampleBhMCVVMxCzAJBgNVBAgMAIZBMRewDwYDVQQHDAhOZXcgW9y
    Mv4C2SYyrlApuG1RwusJ3A0PEwOmQcxmBRRj5XdsR3ONv7KonA==
    -----END CERTIFICATE-----
imageContentSources:
  - mirrors:
    - registry.gw.lo:8443/ocp4/openshift4
      source: quay.io/openshift-release-dev/ocp-release
    - mirrors:
      - registry.gw.lo:8443/ocp4/openshift4
        source: quay.io/openshift-release-dev/ocp-v4.0-art-dev
platform:
  none: {}
fine: false
```

```
[gwest@gwest@redhat gw.lo % ./install-offline.sh 4.9.12
openshift-install 4.9.12
built from commit eb132dae953888e736c382f1176c799c0e1aa49e
release image registry.gw.lo:8443/ocp4/openshift4@sha256:dd71b3cd08ce1e859e0e740a585827c9caa1341819d1121d92879873a
127f5e2
release architecture amd64
rm: *.gz: No such file or directory
INFO Consuming Install Config from target directory
WARNING Certificate 62017121DE93541C2EF683EB5180955C86AC7EA0 from additionalTrustBundle is x509 v3 but not a certificate authority
INFO Ignition-Configs created in: gw and gw/auth
gw/auth: not a regular file
bootstrap.ign                                         100%  280KB   7.4MB/s  00:00
master.ign                                           100% 1707    55.1KB/s  00:00
metadata.json                                         100%   92     3.3KB/s  00:00
worker.ign                                           100% 1707    1.1MB/s  00:00
Powering off VM:
Power off failed: (vim.fault.InvalidPowerState) {
    faultCause = (vmodl.MethodFault) null,
    faultMessage = <unset>,
    requestedState = "poweredOn",
    existingState = "poweredOff"
    msg = "The attempted operation cannot be performed in the current state (Powered off)."
}
Powering off VM:
Power off failed: (vim.fault.InvalidPowerState) {
    faultCause = (vmodl.MethodFault) null,
    faultMessage = <unset>,
    requestedState = "poweredOn",
    existingState = "poweredOff"
    msg = "The attempted operation cannot be performed in the current state (Powered off)."
}
Create: 100% done.
```

```
Powering on VM:  
DEBUG OpenShift Installer 4.9.12  
DEBUG Built from commit eb132dae953888e736c382f1176c799c0e1aa49e  
INFO Waiting up to 20m0s for the Kubernetes API at https://api.gw.lo:6443...  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp: lookup api.gw.lo on 192.168.1.154:53: no such host  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp: lookup api.gw.lo on 192.168.1.154:53: no such host  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp 192.168.1.200:6443: connect: connection refused  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp: lookup api.gw.lo on 192.168.1.154:53: read udp 192.168.1.125:60567->192.168.1.154:53: i/o timeout  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp: lookup api.gw.lo on 192.168.1.154:53: server misbehaving  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp: lookup api.gw.lo on 192.168.1.154:53: read udp 192.168.1.125:60872->192.168.1.154:53: i/o timeout  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp 192.168.1.202:6443: connect: host is down  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp 192.168.1.200:6443: connect: connection refused  
DEBUG Still waiting for the Kubernetes API: Get "https://api.gw.lo:6443/version?timeout=32s": dial tcp 192.168.1.200:6443: connect: connection refused  
INFO API v1.22.3+e790d7f up  
INFO Waiting up to 30m0s for bootstrapping to complete...  
DEBUG Bootstrap status: complete  
INFO It is now safe to remove the bootstrap resources  
DEBUG Time elapsed per stage:  
DEBUG Bootstrap Complete: 30m5s  
DEBUG API: 6m33s  
INFO Time elapsed: 30m5s  
Powering off VM:  
Powering on VM:  
Powering on VM:  
DEBUG OpenShift Installer 4.9.12  
DEBUG Built from commit eb132dae953888e736c382f1176c799c0e1aa49e  
DEBUG Loading Install Config...  
DEBUG Loading SSH Key...  
DEBUG Loading Base Domain...  
DEBUG Loading Platform...
```

```
DEBUG Loading Pull Secret...
DEBUG Loading Platform...
DEBUG Using Install Config loaded from state file
INFO Waiting up to 40m0s for the cluster at https://api.gw.lo:6443 to initialize...
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 652 of 737 done (88% complete)
E0503 10:42:18.751358 35138 reflector.go:138] k8s.io/client-go/tools/watch/informerwatcher.go:146: Failed to watch *v1.ClusterVersion: the server is currently unable to handle the request (get clusterversions.config.openshift.io)
I0503 10:42:36.616644 35138 trace.go:205] Trace[1912208940]: "Reflector ListAndWatch" name:k8s.io/client-go/tools/watch/informerwatcher.go:146 (03-May-2022 10:42:20.207) (total time: 16408ms):
Trace[1912208940]: ---"Objects listed" 16408ms (10:42:00.616)
Trace[1912208940]: [16.408788678s] [16.408788678s] END
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 652 of 737 done (88% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 655 of 737 done (88% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 664 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 665 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 666 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 667 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 668 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 670 of 737 done (90% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 674 of 737 done (91% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 679 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 681 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 681 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 683 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 683 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 684 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 685 of 737 done (92% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 686 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 687 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 689 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 689 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 690 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 690 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 690 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 691 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 692 of 737 done (93% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 694 of 737 done (94% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 694 of 737 done (94% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 695 of 737 done (94% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 696 of 737 done (94% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 698 of 737 done (94% complete)
DEBUG Still waiting for the cluster to initialize: Working towards 4.9.12: 699 of 737 done (94% complete)
```



```
INFO To access the cluster as the system:admin user when using 'oc', run 'export KUBECONFIG=/Users/gwest/gw.lo/gw/auth/kubeconfig'  
INFO Access the OpenShift web-console here: https://console-openshift-console.apps.gw.lo  
INFO Login to the console with user: "kubeadmin", and password: "bUzIA-etr59-RQHDW-N8mwm"  
DEBUG Time elapsed per stage:  
DEBUG Cluster Operators: 22m54s  
INFO Time elapsed: 22m54s
```

```
[gwest@gwest@redhat gw.lo % oc get nodes  
NAME        STATUS   ROLES     AGE      VERSION  
control-plane-0  Ready    master    174m    v1.22.3+e790d7f  
control-plane-1  Ready    master    175m    v1.22.3+e790d7f  
control-plane-2  Ready    master    175m    v1.22.3+e790d7f  
worker-0         Ready    worker    149m    v1.22.3+e790d7f  
worker-1         Ready    worker    141m    v1.22.3+e790d7f  
gwest@gwest@redhat gw.lo % ]
```

MORE INFO

- Where to get:
 - <https://console.redhat.com/openshift/downloads#tool-mirror-registry>
- Blog:
 - <https://cloud.redhat.com/blog/introducing-mirror-registry-for-red-hat-openshift>
- My Scripts
 - <https://github.com/glennewest/mirrorregistry>