These are the steps I followed to in installing 3scale On Prem - largely following <https://support.3scale.net/guides/infrastructure/onpremises20-installation>

### Background

* Linux machine setup. AWS OHIO - TOM\_ON\_PREM\_OFFICIAL size: c4.2xlarge
* Machine host is ec2-13-58-121-70.us-east-2.compute.amazonaws.com

### Command and Action sequence

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Login to machine.

ssh -i ./redhat-3scale-key-pair-ohio.pem ec2-user@ec2-13-58-121-70.us-east-2.compute.amazonaws.com

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Install Docker

sudo yum repolist all

sudo yum-config-manager --enable rhui-REGION-rhel-server-extras

sudo yum install docker docker-registry -y

cd /etc/sysconfig/

sudo vi docker

\*\*change the line

# INSECURE\_REGISTRY='--insecure-registry'

to

INSECURE\_REGISTRY='--insecure-registry 172.30.0.0/16'

Save it

sudo systemctl start docker

sudo systemctl status docker

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Install Client tools

cd ~

sudo yum install wget -y

wget https://github.com/openshift/origin/releases/download/v1.4.1/openshift-origin-client-tools-v1.4.1-3f9807a-linux-64bit.tar.gz

tar xzvf openshift-origin-client-tools-v1.4.1-3f9807a-linux-64bit.tar.gz

sudo mv openshift-origin-client-tools-v1.4.1+3f9807a-linux-64bit/oc /usr/bin/

rm -rf openshift-origin-client-tools-v1.4.1\*

Start the cluster

NOTES for the command below

1. : the hostname is the fully qualified host name of your instance
2. The routing suffix is the <PublicIP>.xip.io of your ec2 instance

sudo oc cluster up --public-hostname=ec2-13-58-121-70.us-east-2.compute.amazonaws.com --routing-suffix=13.58.121.70.xip.io

\*\*\*web console: https://ec2-13-58-121-70.us-east-2.compute.amazonaws.com:8443

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Register nodes and attach them to the 3scale instance.

sudo subscription-manager register --username *<****yours****>*@redhat.com --password *<****yours****>*

*Get pool id like this:*

sudo subscription-manager list --available --matches "\*3scale API Management\*"

(mine was 8a85f9815790899701579abe35b503c2)

sudo subscription-manager attach --pool=8a85f9815790899701579abe35b503c2

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Fix permissions issues and install git

sudo su

yum-config-manager --disable rhel-7-server-rt-beta-rpms

yum-config-manager --save --setopt=rhel-7-server-htb-rpms.skip\_if\_unavailable=true

I had to do these 2 previous steps as the console advised me to - I was getting 403 permissions errors.

yum install git -y

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Configure [persistent storage](https://docs.openshift.com/container-platform/latest/install_config/persistent_storage/index.html) on a file system that supports multiple writes.

mkdir -p /var/lib/docker/pv/{01..04}

chmod g+w /var/lib/docker/pv/{01..04}

chcon -Rt svirt\_sandbox\_file\_t /var/lib/docker/pv/

(locally - copy up pv.yml to AWS):

scp -i ./redhat-3scale-key-pair-ohio.pem ./pv.yml ec2-user@ec2-13-58-121-70.us-east-2.compute.amazonaws.com:/home/ec2-user

Make sure you are still sudo su - before running the following. Otherwise you might run into permissions problems.

oc login -u system:admin

oc new-app --param PV=01 -f pv.yml

oc new-app --param PV=02 -f pv.yml

oc new-app --param PV=03 -f pv.yml

oc new-app --param PV=04 -f pv.yml

oc get pv (to verify)

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Enable access to the rhel-7-server-3scale-amp-2.0-rpms repository using the subscription manager

sudo subscription-manager repos --enable=rhel-7-server-3scale-amp-2.0-rpms

sudo yum install 3scale-amp-template -y

exit (to exit sudo su):

oc login (I used developer/developer)

oc new-project 3scale-amp

NOTES before running below command:

1. The amp.yml is automatically downloaded
2. The IP referred to below is again the Public IP of your EC2 instance

oc new-app --file /opt/amp/templates/amp.yml --param WILDCARD\_DOMAIN=amp.13.58.121.70.xip.io --param ADMIN\_PASSWORD=3scaleUser

(It can take a few minutes after all pods are started before it is ready. Make sure all pods are up by going to the openshift console before you login using the below link)

When installation is complete, Login on https://3scale-admin.amp.13.58.121.70.xip.io as admin/3scaleUser