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

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

(It can take a few minutes after all pods are started before it is ready)