|  | gUIDance for window  1. Install VirtualBox   Select window hosts <https://www.virtualbox.org/wiki/Downloads>   1. Install Vagrant   Select window 64bit <https://www.vagrantup.com/downloads.html>   1. Setup virtual environment   Go to any directory, save the file below to the directory    Run command  *vagrant init*  It will create a Vagrantfile, replace the generated file with above file, then run  *vagrant up*  you should have three virtual environments named master, worker1 and worker2 up  *vagrant status*   1. Open window PowerShell, run   *vagrant ssh master*  if your see message -- [vagrant@127.0.0.1](mailto:vagrant@127.0.0.1): Permission denied(publickey), run  *$Env:VAGRANT\_PREFER\_SYSTEM\_BIN += 0*   1. Install Kubernetes   *sudo -s*  *curl -s* [*https://packages.cloud.google.com/apt/doc/apt-key.gpg*](https://packages.cloud.google.com/apt/doc/apt-key.gpg) *| apt-key add -*  *cat <<EOF >/etc/apt/sources.list.d/kubernetes.list*  *deb* [*http://apt.kubernetes.io/*](http://apt.kubernetes.io/) *kubernetes-xenial main*  *EOF*  *apt-get update*  *apt-get install -y kubelet kubeadm kubectl*  *kubeadm init --pod-network-cidr=10.244.0.0/16 --apiserver-advertise-address=192.168.33.10*  After *init* finish, at last line of the finished output screen, copy whole line to a file for node join, the line start with kubeadm *join ---token xxx*………….  Continue in master, exit from root user  *mkdir -p $HOME/.kube*  *sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config*  *sudo chown $(id -u):$(id -g) $HOME/.kube/config*  *sudo -s*  *kubectl apply -f* [*https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml*](https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml)   1. Go to worker 1   *vagrant ssh worker1*  *sudo -s*  *curl -s* [*https://packages.cloud.google.com/apt/doc/apt-key.gpg*](https://packages.cloud.google.com/apt/doc/apt-key.gpg) *| apt-key add –*  *cat <<EOF >/etc/apt/sources.list.d/kubernetes.list*  *deb* [*http://apt.kubernetes.io/*](http://apt.kubernetes.io/) *kubernetes-xenial main*  *EOF*  *apt-get update*  *apt-get install -y kubelet kubeadm kubectl*  *kubeadm join 192.168.33.10:6443 --token 70oz7i.52312hgl37dj7n1d --discovery-token-ca-cert-hash sha256:6851845c665bc964c9c8679f665a8e110c9e610391a1ac62a3a1fed5caf0d2b9*   1. Go to worker 2, follow the exact steps of worker 1 2. once you are done, go to master, issue a command   *kubectl get nodes*  You should be able to see three nodes. Congratulation !! you are done, have a couple of tea, enjoy **k8s.**   1. Install kubernetes dashboard   kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v1.10.1/src/deploy/recommended/kubernetes-dashboard.yaml  curl <https://gist.githubusercontent.com/chukaofili/9e94d966e73566eba5abdca7ccb067e6/raw/0f17cd37d2932fb4c3a2e7f4434d08bc64432090/k8s-dashboard-admin-user.yaml> > k8s-dashboard-admin-user.yaml  kubectl apply –f k8s-dashboard-admin-user.yaml  kubectl -n kube-system describe secret $(kubectl -n kube-system get secret | grep admin-user | awk '{print $1}')  eyJhbGciOiJSUzI1NiIsImtpZCI6IiJ9.eyJpc3MiOiJrdWJlcm5ldGVzL3NlcnZpY2VhY2NvdW50Iiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9uYW1lc3BhY2UiOiJrdWJlLXN5c3RlbSIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2VjcmV0Lm5hbWUiOiJhZG1pbi11c2VyLXRva2VuLXRuNnhkIiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9zZXJ2aWNlLWFjY291bnQubmFtZSI6ImFkbWluLXVzZXIiLCJrdWJlcm5ldGVzLmlvL3NlcnZpY2VhY2NvdW50L3NlcnZpY2UtYWNjb3VudC51aWQiOiJiMTAyMWQ4Mi0yMDI3LTExZTktODBlYi0wMjBkMzExNGM3YTciLCJzdWIiOiJzeXN0ZW06c2VydmljZWFjY291bnQ6a3ViZS1zeXN0ZW06YWRtaW4tdXNlciJ9.m7vrvqUrZdZtuPJc-T7Cxbppohxkvfm7jz9saqWOH86d8u8amvBTHikx8xppWrGvefWLd1y3w17x3b8Uiu5lqNAT3RqsekqXFMgqOot4HJVU3QJMyVRJbDuKKnh0nMvLoa1cgoMyZwtg2uKzAXU7IyUjr5gpxkmJS7xU1B0aNJtUtnxEbIRD\_fNkfv\_4af3KNNCuGXDoTxY6lJdW00vTjZC0\_Jm45lGVxXoWgOKqHKE4tkrlQ8dbnRbk9mQAh1fJAIS46\_Wov9DZw-9T1icJ5dy-eeiWIi\_N3S7N8hBJhrqSEkpzBGNLIGBVctDonlFR0sQ5Cvi-O-eVtFcz0S1twQ  In the Chrome address bar type: chrome://flags/#allow-insecure-localhost  Type: htts://<installed-node-address>:port  If Chrome doesn’t work, try Firefox, should work after add exception   1. Add above generated token get in |
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