

JENKINS	<p>➤ <u>Install on Desktop/Local Host:8080:</u></p> <p>➤ <u>Install on AWS Linux2 [public ip:8080]:</u> <code>sudo yum update -y</code> <code>sudo wget link from jenkins.io downloads page for linux</code> <code>sudo yum upgrade -y</code> <code>sudo amazon-linux-extras install java-openjdk11 -y</code> <code>sudo yum install jenkins -y</code> <code>sudo systemctl enable jenkins</code> <code>sudo systemctl start jenkins</code> <code>sudo systemctl status jenkins</code></p> <p>check in browser with publicIP:8080 Copy password link and cat passwordlink and login into Jenkins dashboard</p> <p>➤ <u>Install on AWS ubuntu 20.04.2LTS [public ip:8080]:</u> <code>sudo apt-get update -y</code> <code>wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key sudo apt-key add -</code> <code>sudo sh -c 'echo deb http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'</code> <code>sudo apt update</code> <code>sudo apt install jenkins</code> <code>sudo systemctl start jenkins</code> <code>sudo systemctl status jenkins</code> <code>sudo systemctl status jenkins</code> <code>sudo ufw allow 8080</code> <code>sudo ufw allow OpenSSH</code> <code>sudo ufw enable</code> <code>sudo ufw status</code></p> <p>check in browser with publicIP:8080 Copy password link and cat passwordlink and login into Jenkins dashboard <code>sudo cat /var/lib/jenkins/secrets/initialAdminPassword</code> {Copy the 32-character alphanumeric password from the terminal and paste it into the Administrator password field, then click Continue} ==> click the Install suggested plugins option, ==> Enter the name and password for your user: Instance Configuration ==> Save and Finish ==> Jenkins is Ready</p>
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DOCKER	<p>➤ <u>Install on Desktop/Local Host:</u></p> <p>➤ <u>Install on AWS Linux2:</u> <code>sudo yum update -y</code> <code>sudo amazon-linux-extras install docker.io -y</code> <code>sudo systemctl enable docker</code> <code>sudo systemctl start docker</code> <code>sudo systemctl status docker</code> <code>sudo usermod -a -G docker ec2-user</code> <code>docker info</code> <code>sudo vi Dockerfile</code> <code>docker build -t naren-1 .</code> (i.e. img name here . means in same folder) ==> <code>docker image ls</code> <code>docker login --username Narian318</code> ==> password: <code>docker tag naren-1 "dockerhub Repo name:version tag"</code> <code>docker push "dockerhub Repo name:version tag"</code> ==> <code>docker image ls</code> <code>docker run -dp 80:80 "new img name"</code> copy & paste EC2 publicIP or public DNS link in web browser to see website <code>docker ps</code> ==> <code>docker stop "container id"</code></p> <p>➤ <u>Install on AWS ubuntu 20.04.2LTS:</u> <code>sudo apt update</code> <code>sudo apt install apt-transport-https ca-certificates curl software-properties-common</code> <code>curl -fsSL https://download.docker.com/linux/ubuntu/gpg sudo apt-key add -</code> <code>sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"</code> <code>apt-cache policy docker-ce</code> <code>sudo apt install docker-ce</code> <code>sudo systemctl status docker</code> <code>sudo usermod -aG docker \${USER}</code> means ec2-user <code>sudo usermod -aG docker "username"</code> <code>docker info</code> <code>docker run hello-world</code> <code>docker pull ubuntu</code> <code>docker images</code> <code>docker run -it ubuntu</code> <code>apt update</code> ==> <code>apt install nodejs</code> ==> <code>node -v</code></p>
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	<pre> docker ps -a or docker ps or docker ps -l docker start 1c08a7a0d0e4(container id) docker stop quizzical_mcnulty docker commit -m "What you did to the image" -a "Author Name" container_id repository/new_image_name docker commit -m "added Node.js" -a "sammy" d9b100f2f636 sammy/ubuntu-nodejs docker login -u docker-registry-username docker tag sammy/ubuntu-nodejs dockerhub username/ubuntu-nodejs docker push dockerhub username/docker-image-name docker push sammy/ubuntu-nodejs </pre>
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ANSIBLE	<p><u>As per AOS Note videos:</u></p> <p>➤ <u>Install on AWS Linux2:</u></p> <pre> sudo yum update -y sudo amazon-linux-extras install ansible2 -y ansible --version sudo vi inventory [add servers pvt ip's] ==> :wq! (save) sudo vi nn-playbook.yml [yaml code of ansible playbook for tasks to perform into target servers] ansible all --key-file ~/.ssh/id_rsa -i inventory -m ping -u ec2-user [to ping servers from ansible master] sudo vi ansible.cfg [defaults] remote_user = ec2-user inventory = inventory private_key_file = ~/.ssh/id_rsa ==> :wq! (save) ansible-playbook nn-playbook.yml [to run playbook] </pre> <p>Project: Install Ansible on Amazon Linux-2 EC2 [with its default Inventory file] (user as ansadmin)</p> <p><u>on Ansible Master:</u></p> <pre> sudo su - [root@ansible-master ~]# 1. yum update -y 2. useradd ansadmin 3. passwd ansadmin # give your own password for "ansadmin" user 4. vi /etc/sudoers # adding ansadmin ALL=(ALL) NOPASSWD:ALL 5. vi /etc/ssh/sshd_config # No Password Authentication yes 6. systemctl restart sshd </pre> <p>Note: Repeat the above steps in all Node servers also</p> <p><u>on Ansible Master:</u></p> <pre> 1. su - ansadmin 2. sudo yum update -y 3. ssh-keygen 4. cd .ssh/ 5. ls -ltr 6. ssh-copy-id ansadmin@35.174.105.47 (# Pvt IP of Node) # run this same for all 3 nodes 7. sudo amazon-linux-extras install ansible2 -y 8. ansible --version 9. cd /etc/ansible 10. ls -l 11. sudo chown -R ansadmin:ansadmin * 12. vi hosts # adding the all Node servers pvt IPs in [servers] group 13. vi ansible.cfg # uncomment inv line, add interpreter_python = /usr/bin/python under defaults 14. ansible all -m ping # to ping all Nodes status 15. sudo touch naren-file1 16. ansible all -i hosts -m copy -a "src=naren-file1 dest=/home/ansadmin/" # to copy naren-file1 to all Nodes from master thru adhoc command 17. sudo vi naren-pb-git.yml # create playbook to install git on Nodes 18. ansible-playbook naren-pb-git.yml --syntax-check 19. ansible-playbook naren-pb-git.yml </pre>
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	<p>-</p> <p>(Git & Ansible) Install on Amazon EC2 Linux2 (user as ec2-user)</p> <ol style="list-style-type: none"> 1. <code>sudo yum update -y & sudo yum install git -y</code> 2. <code>sudo -i</code> 3. <code>ssh-keygen</code> 4. <code>cd .ssh/</code> 5. <code>ls -ltr</code> 6. <code>ssh-copy-id root@35.174.105.47 (# Pvt IP of Node) # run this same for all 2 nodes</code> 7. <code>sudo amazon-linux-extras install ansible2 -y</code> 8. <code>ansible --version</code> 9. <code>cd /etc/ansible</code> 10. <code>ls -l</code> 11. <code>sudo chown -R ec2-user:ec2-user *</code> 12. <code>vi hosts</code> # adding the all Node servers pvt IPs in [servers] group 13. <code>vi ansible.cfg</code> # uncomment inv line, add interpreter_python = /usr/bin/python under defaults 14. <code>ansible all -m ping</code> # to ping all Nodes status <p><code>cd /home ==> git clone github-repo link</code></p>
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MAVEN	<p>Project: Install Maven on Amazon Linux-2 EC2</p> <ol style="list-style-type: none"> 1. <code>cd /opt</code> 2. <code>wget https://dlcdn.apache.org/maven/maven-3/3.9.3/binaries/apache-maven-3.9.3-bin.tar.gz</code> 3. <code>ls</code> 4. <code>tar -xvzf apache-maven-3.9.3-bin.tar.gz</code> 5. <code>ls</code> 6. <code>mv apache-maven-3.9.3 maven3</code> 7. <code>rm -rf apache-maven-3.9.3-bin.tar.gz</code> 8. <code>export PATH=\$PATH:/opt/maven3/bin/</code>
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SONARQUBE	<p>Project: Install Sonarqube on Amazon Linux-2 EC2 [with sonar user]</p> <ol style="list-style-type: none"> 1. Launch EC2 with 22, 80, 9000 ports open from anywhere access 2. <code>sudo yum update -y</code> 3. <code>sudo su -</code> 4. <code>cd /opt ==> yum install wget unzip -y ==> amazon-linux-extras install java-openjdk11 -y</code> 5. <code>wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-8.9.10.61524.zip</code> 6. <code>unzip sonarqube-8.9.10.61524.zip</code> 7. <code>rm -rf sonarqube-8.9.10.61524.zip</code> 8. <code>useradd sonar ==> visudo { adding at root as: sonar ALL=(ALL) NOPASSWD:ALL }</code> 9. <code>chown -R sonar:sonar /opt/sonarqube-8.9.10.61524</code> 10. <code>chmod -R 775 /opt/sonarqube-8.9.10.61524</code> 11. <code>su - sonar</code> 12. <code>cd opt/</code> 13. <code>cd sonarqube-8.9.10.61524/</code> 14. <code>cd bin</code> 15. <code>cd linux-x86-64/</code> 16. <code>./sonar.sh start</code> [# check the Application with EC2 Public IP:9000 in browser]
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TOMCAT	<p>Project: <u>Install Tomcat on Amazon Linux-2 EC2</u></p> <p>on Tomcat server (8090 port)</p> <pre> 1. yum update -y 2. yum install git wget -y 3. yum install java-1.8* 4. cd /opt 5. wget https://dlcdn.apache.org/tomcat/tomcat-8/v8.5.90/bin/apache-tomcat-8.5.90.tar.gz 6. tar -xvzf apache-tomcat-8.5.90.tar.gz 7. chmod +x -R apache-tomcat-8.5.90 8. cd apache-tomcat-8.5.90/ 9. cd bin 10. pwd 11. chmod +x startup.sh 12. chmod +x shutdown.sh 13. ln -s /opt/apache-tomcat-8.5.90/bin/startup.sh /usr/local/bin/tomcatup 14. ln -s /opt/apache-tomcat-8.5.90/bin/shutdown.sh /usr/local/bin/tomcatdown 15. tomcatup 16. cd 17. tomcatdown 18. tomcatup 19. cd /opt 20. cd apache-tomcat-8.5.90/ 21. cd conf/ 22. vim server.xml 23. tomcatdown 24. tomcatup 25. find / -name grep context.xml 26. find / -name context.xml 27. vim /opt/apache-tomcat-8.5.90/webapps/host-manager/META-INF/context.xml 28. vim /opt/apache-tomcat-8.5.90/webapps/manager/META-INF/context.xml 29. tomcatdown 30. tomcatup 31. vim tomcat-users.xml 32. cd 33. hostname nn-tomcat-server 34. exec bash 35. cd /opt 36. apache-tomcat-8.5.90/ 37. cd webapps/ 38. ls -ltr 39. date 40. cd webapp 41. cat index.jsp </pre>
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{GRAFANA+ LOKI+ PROMTAIL}	<p><u>Grafana-Loki-Promtail</u></p> <pre> sudo apt-get update sudo apt install nginx sudo apt-get install -y apt-transport-https sudo apt-get install -y software-properties-common wget sudo wget -q -O /usr/share/keyrings/grafana.key https://apt.grafana.com/gpg.key echo "deb [signed-by=/usr/share/keyrings/grafana.key] https://apt.grafana.com stable main" sudo tee -a /etc/apt/sources.list.d/grafana.list # Update the list of available packages sudo apt-get update # Install the latest OSS release: sudo apt-get install grafana # Start grafana-server: sudo systemctl start grafana-server </pre> <p>You can now access Grafana by navigating to http://your-ec2-instance-ip:3000</p> <p>The default username and password are admin/admin</p> <pre> sudo apt-get update sudo apt-get install docker.io sudo usermod -aG docker \$USER sudo reboot </pre>
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	<pre> 2 sudo mkdir grafana_configs 3 cd grafana_configs 4 sudo wget https://raw.githubusercontent.com/grafana/loki/v2.8.0/cmd/loki/loki-local-config.yaml -O loki-config.yaml 5 sudo wget https://raw.githubusercontent.com/grafana/loki/v2.8.0/clients/cmd/promtail/promtail-docker-config.yaml -O promtail-config.yaml 6 ls 7 docker run -d --name loki -v \$(pwd):/mnt/config -p 3100:3100 grafana/loki:2.8.0 --config.file=/mnt/config/loki-config.yaml 8 docker run -d --name promtail -v \$(pwd):/mnt/config -v /var/log:/var/log --link loki grafana/promtail:2.8.0 --config.file=/mnt/config/promtail-config.yaml 9 cd .. 10 sudo systemctl restart grafana-server 11 cd grafana_configs 12 vim promtail-config.yaml 13 chmod 777 promtail-config.yaml 14 sudo chmod 777 promtail-config.yaml 15 vim promtail-config.yaml 16 docker ps 17 sudo docker restart promtail-container-id 18 sudo docker restart 5800f350a167 19 sudo apt install stress 20 history </pre>
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{Maj ento on EKS}	<p>AWS EKS Kubectrl (Magento Install)</p> <p>#Create Cluster: curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_\$(uname -s)_amd64.tar.gz" tar xz -C /tmp sudo mv /tmp/eksctl /usr/local/bin eksctl create cluster --name magento-cluster</p> <p>aws eks update-kubeconfig --region ap-south-1 --name magento-cluster</p> <p>#Install Helm: sudo yum install openssl -y curl https://raw.githubusercontent.com/helm/helm/master/scripts/get-helm-3 > get_helm.sh chmod 700 get_helm.sh ./get_helm.sh</p> <p>#Setup EBS CSI addon (OIDC IAM) for EKS: oidc_id=\$(aws eks describe-cluster --name magento-cluster --query "cluster.identity.oidc.issuer" --output text cut -d '/' -f 5) aws iam list-open-id-connect-providers grep \$oidc_id cut -d '"' -f 4 eksctl utils associate-iam-oidc-provider --cluster magento-cluster --approve</p> <p>#IAM Role for eksctl: eksctl create iamserviceaccount \ --name ebs-csi-controller-sa \ --namespace kube-system \ --cluster magento-cluster \ --attach-policy-arn arn:aws:iam::aws:policy/service-role/AmazonEBSCSIDriverPolicy \ --approve \ --role-only \ --role-name AmazonEKS_EBS_CSI_DriverRoleMagento</p> <p>#Adding EBS CSI to EKS: eksctl create addon --name aws-ebs-csi-driver --cluster magento-cluster --service-account-role-arn arn:aws:iam::167613117387:role/AmazonEKS_EBS_CSI_DriverRoleMagento --force</p> <p>#Install Magento thru Helm: helm repo add bitnami https://charts.bitnami.com/bitnami helm install my-release bitnami/magento</p> <p>#Set the Hostname: export APP_HOST=\$(kubectl get svc --namespace default my-release-magento --template "{{ range (index .status.loadBalancer.ingress 0) }}{{ . }}{{ end }}") export APP_PASSWORD=\$(kubectl get secret --namespace default my-release-magento -o jsonpath="{.data.magento-password}" base64 -d) export DATABASE_ROOT_PASSWORD=\$(kubectl get secret --namespace default my-release-mariadb -o jsonpath="{.data.mariadb-root-password}" base64 -d) export APP_DATABASE_PASSWORD=\$(kubectl get secret --namespace default my-release-mariadb -o jsonpath="{.data.mariadb-password}" base64 -d)</p> <p>helm upgrade --namespace default my-release bitnami/magento \</p>
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	<pre>--set magentoHost=\$APP_HOST,magentoPassword=\$APP_PASSWORD,mariadb.auth.rootPassword=\$DATABASE_ROOT_PASSWORD,mariadb.auth.password=\$APP_DATABASE_PASSWORD echo Password : \$(kubectl get secret --namespace default my-release-magento -o jsonpath="{.data.magento-password}" base64 -d) #delete Total Cluster eksctl delete cluster magento-cluster</pre>
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<p>{EKS+ISTIO+KIALI+JAIGER}</p>	<pre>curl -LO "https://dl.k8s.io/release/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl" curl -LO "https://dl.k8s.io/\$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl.sha256" echo "\$(cat kubectl.sha256) kubectl" sha256sum --check sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_\$(uname -s)_amd64.tar.gz" tar xz -C /tmp sudo mv /tmp/eksctl /usr/bin eksctl version eksctl create cluster --name=nn-eks-aug --region=us-west-1 --zones=us-west-1c,us-west-1a --without-nodegroup eksctl utils associate-iam-oidc-provider --region us-west-1 --cluster nn-eks-aug --approve eksctl create nodegroup --cluster=nn-eks-aug --region=us-west-1 --name=eksdemo-ng-public --node-type=t2.medium --nodes=2 --nodes-min=2 --nodes-max=4 --node-volume-size=10 --ssh-access --ssh-public-key=nn-uswest1-key --managed --asg-access --external-dns-access --full-ecr-access --appmesh-access --alb-ingress-access kubectl get pods -n kube-system curl -L https://istio.io/downloadIstio ISTIO_VERSION=1.18.1 TARGET_ARCH=x86_64 sh - cd istio-1.18.1 ll cd samples ll cd bin cd .. cd bin ll cd .. export PATH=\$PWD/bin:\$PATH istioctl install --set profile=demo -y kubectl get pods -n default kubectl get namespace kubectl get pods -n istio-system kubectl apply -f https://raw.githubusercontent.com/istio/istio/release-1.18/samples/bookinfo/platform/kube/bookinfo.yaml kubectl get pods -n default kubectl exec "\$(kubectl get pod -l app=ratings -o jsonpath='{.items[0].metadata.name}')" -c ratings -- curl -sS productpage:9080/productpage grep -o "<title>.*</title>" kubectl get services kubectl label namespace default istio-injection=enabled istioctl analyze kubectl get pods kubectl delete pod details-v1-5ffd6b64f7-dnfpf kubectl delete pod productpage-v1-8b588bf6d-5s46z ratings-v1-5f9699cfd-fwjlk reviews-v1-569db879f5-wrq8r reviews-v2-65c4dc6fdc-t4wd4 kubectl delete pod reviews-v3-c9c4fb987-zz6ts kubectl get pods cd samples/bookinfo/networking/ kubectl apply -f bookinfo-gateway.yaml kubectl get gateway kubectl get svc istio-ingressgateway -n istio-system export INGRESS_HOST=\$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.status.loadBalancer.ingress[0].ip}') export INGRESS_PORT=\$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="http2")].port}') export SECURE_INGRESS_PORT=\$(kubectl -n istio-system get service istio-ingressgateway -o jsonpath='{.spec.ports[?(@.name=="https")].port}') echo \$SECURE_INGRESS_PORT export INGRESS_HOST=ac62cb469da37487ebccb53635c96ef2-1463963366.us-west-1.elb.amazonaws.com</pre>
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	<pre> export GATEWAY_URL=\$INGRESS_HOST:\$INGRESS_PORT echo \$GATEWAY_URL echo "http://\$GATEWAY_URL/productpage" cd .. cd .. cd addons kubectl apply -f . kubectl get pods -n istio-system kubectl port-forward --address 0.0.0.0 svc/kiali 9008:20001 -n istio-system kubectl port-forward --address 0.0.0.0 svc/tracing 8008:80 -n istio-system history eksctl delete nodegroup --cluster=nn-eks-aug --region=us-west-1 --name=eksdemo-ng-public eksctl delete cluster --name=nn-eks-aug --region=us-west-1 </pre>
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Node.js	<p>Launch EC2 {ubuntu 22.04} with 22, 80, 443 ports open from anywhere access</p> <p><u>Install NodeJs and npm using nvm:</u></p> <pre> sudo su - curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.34.0/install.sh bash . ~/.nvm/nvm.sh (Activate nvm) nvm install node node -v npm -v </pre> <p>Install Git and Clone Git Repo from Github</p> <pre> sudo apt-get update -y sudo apt-get install git -y git --version git clone https://github.com/yeshwanthlm/nodejs-on-ec2.git cd nodejs-on-ec2 npm install npm start (==> check the Application with EC2 Public IP in browser) </pre>
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Django (Py)	<p><u>Install Django using python:</u></p> <p>Launch EC2 {ubuntu 22.04} with 22, 80, 443, 3000 ports open from anywhere access</p> <pre> sudo apt-get update git clone https://github.com/yeshwanthlm/django-on-ec2.git cd django-on-ec2 sudo apt install python3-pip -y pip install django [Download django using pip] python3 manage.py makemigrations python3 manage.py migrate [all database migrations] python3 manage.py createsuperuser python3 manage.py runserver python3 manage.py runserver 0.0.0.0:3000 </pre> <p>==> check the Application with EC2 Public IP:3000 in browser</p>
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Kubectl + eksctl	<p><u>AWS EKS cluster setup through (kubectl + eksctl) :</u></p> <p>Launch EC2 instance ==> Install kubectl ==> Install eksctl ==></p> <p>Create IAM Role with admin access ==> attach this IAM role to EC2</p> <p>Create Cluster & Nodes ==> check Nodes & Pods ==> delete cluster</p> <p>Launch EC2 {Amazon Linux2} with 22, 80, 443, ports open from anywhere access</p> <p># Steps:-</p> <p># For kubectl Installation</p> <pre> sudo su yum update -y curl -o kubectl https://amazon-eks.s3.us-west-2.amazonaws.com/1.19.6/2021-01-05/bin/linux/amd64/kubectl chmod +x ./kubectl mv ./kubectl /usr/local/bin kubectl version --short --client </pre> <p># For eksctl Installation</p> <pre> curl --silent --location </pre>
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	<pre> "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_\${uname -s}_amd64.tar.gz" tar xz -C /tmp sudo mv /tmp/eksctl /usr/local/bin eksctl version # For Cluster & Nodes Creation eksctl create cluster --name naren-eks --region us-east-1 --node-type t2.small --zones us-east-1a,us-east-1b kubectl get nodes ==> kubectl get pods eksctl delete cluster naren-eks --region us-east-1 </pre>
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MongoDB	<p>Launch EC2 {Amazon Linux 2023} with 22, 80, 443 ports open from anywhere access</p> <p><u>Install MongoDB on Amazon Linux 2023 (Fedora):</u></p> <pre> sudo dnf update sudo dnf install docker sudo systemctl start docker sudo systemctl enable docker sudo docker pull mongo mkdir ~/mongodb_data sudo docker run -d -p 27017:27017 -v ~/mongodb_data:/data/db --name mongodb mongo sudo docker ps docker exec -it mongodb mongosh db.runCommand({ hello: 1 }) </pre>
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MySQL	<p><u>MySQL on Amazon Linux 2023 (Fedora):</u></p> <pre> sudo wget https://dev.mysql.com/get/mysql80-community-release-el9-1.noarch.rpm sudo ls -lrt sudo dnf install mysql80-community-release-el9-1.noarch.rpm dnf repolist enabled grep "mysql.*-community.*" sudo dnf install mysql-community-server sudo systemctl start mysqld sudo mysql -V sudo mysql_secure_installation sudo mysql -uroot -p sudo vi /etc/my.cnf ==> skip-grant-tables sudo systemctl restart mysqld sudo mysql_secure_installation mysql -uroot -p CREATE schema my_database; show databases; exit </pre> <p><u>MySQL on Ubuntu 22.04:</u></p> <pre> sudo apt update sudo apt install mysql-server systemctl start mysql systemctl enable mysql mysql -u root -p ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY 'new_password'; sudo mysql_secure_installation mysql -uroot -p </pre>
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Java Application	<p>Launch EC2 {Amazon Linux 2023} with 22, 80, 443 ports open from anywhere access <u>Java Application on Amazon Linux 2023(Fedora):</u></p> <pre> sudo dnf update -y sudo dnf install java-17-amazon-corretto-devel java -version sudo vi HelloWorld.java public class HelloWorld { public static void main(String[] args) { System.out.println("Hello, World!"); } } ==> :wq! javac HelloWorld.java java HelloWorld </pre> <p><u>Java Application on Ubuntu 22.04:</u></p> <pre> sudo apt update sudo apt install default-jdk java -version sudo vi HelloWorld.java public class HelloWorld { public static void main(String[] args) { System.out.println("Hello, World!"); } } ==> :wq! javac HelloWorld.java java HelloWorld </pre>
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Node.Js	<p>Launch EC2 {Amazon Linux 2023} with 22, 80, 443 ports open from anywhere access <u>Node.Js on Amazon Linux 2023 (Fedora):</u></p> <pre> curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.0/install.sh bash nvm --version nvm install node nvm install 16.0.0 nvm use node nvm use 16.0.0 node -v sudo dnf install nginx -y sudo systemctl start nginx sudo vi /etc/nginx/conf.d/sameple.com.conf server { listen 80; server_name nodejs.naren-cloudsolutions.click; location / { proxy_pass http://127.0.0.1:3000; proxy_set_header Host \$host; proxy_set_header X-Real-IP \$remote_addr; proxy_set_header X-Forwarded-For \$proxy_add_x_forwarded_for; proxy_set_header X-Forwarded-Proto \$scheme; } } </pre> <p><u>SSL setup for above domain:</u></p> <pre> sudo firewall-cmd --add-service=https --permanent sudo firewall-cmd --reload sudo python3 -m venv /opt/certbot/ sudo /opt/certbot/bin/pip install --upgrade pip sudo /opt/certbot/bin/pip install certbot certbot-nginx sudo ln -s /opt/certbot/bin/certbot /usr/bin/certbot sudo nano /etc/nginx/nginx.conf server { listen 80; server_name nodejs.naren-cloudsolutions.click; return 301 https://\$host\$request_uri; } sudo certbot --nginx sudo certbot renew [for automatic renewal of https validity] (check in browser for https lock symbol) </pre>
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Apache	<p>Launch EC2 {Amazon Linux 2023} with 22, 80, 443 ports open from anywhere access</p> <p><u>Apache on Amazon Linux 2023 (Fedora):</u></p> <pre>sudo dnf update -y sudo dnf install httpd mod_ssl php php-mysqlnd -y sudo systemctl start httpd sudo systemctl status httpd sudo systemctl enable httpd sudo vi /var/www/html/info.php <?php phpinfo(); ?> sudo dnf install python3 augeas-libs sudo python3 -m venv /opt/certbot/ sudo /opt/certbot/bin/pip install --upgrade pip sudo /opt/certbot/bin/pip install certbot certbot-apache sudo ln -s /opt/certbot/bin/certbot /usr/bin/certbot sudo certbot --apache</pre>
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