

Install AWS server and docker

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Get a linux server

Just need some server somewhere. This example will make an ec-2 from amazon

Create EC2 Red Hat Enterprise Linux 8 (HVM), SSD Volume Type linux t2.medium (4 gig ram) server, public IP address, get pem

Instance: i-04c14457ff8c0761d Public DNS: ec2-34-229-14-196.compute-1.amazonaws.com			
Description			
Instance ID	i-04c14457ff8c0761d	Public DNS (IPv4)	ec2-34-229-14-196.compute-1.amazonaws.com
Instance state	running	IPv4 Public IP	34.229.14.196
Instance type	t2.medium	IPv6 IPs	-
Finding	Opt-in to AWS Compute Optimizer for recommendations. Learn more	Elastic IPs	-
Private DNS	ip-172-30-3-152.ec2.internal	Availability zone	us-east-1d
Private IPs	172.30.3.152	Security groups	launch-wizard-9, view inbound rules , view outbound rules
Secondary private IPs	-	Scheduled events	No scheduled events
VPC ID	vpc-9b4d3dff	AMI ID	RHEL-8_0.0_HVM-20190618-x86_64-1-Hourly2-GP2 (ami-0c322300a1dd5dc79)
Subnet ID	subnet-bac263cc	Platform details	Red Hat Enterprise Linux
Network interfaces	eth0	Usage operation	RunInstances:0010
IAM role	-	Source/dest. check	True
Key pair name	aws2020	T2/T3 Unlimited	Disabled
ClassicLink	-	EBS-optimized	False
Owner	992702096659	Root device type	ebs
Launch time	April 5, 2020 at 9:42:17 PM UTC-4 (less than one hour)	Root device	/dev/sda1
Termination protection	False 🔗	Block devices	/dev/sda1
Lifecycle	normal	Elastic Graphics ID	-
Monitoring	basic	Elastic Inference accelerator ID	-
Alarm status	None	Capacity Reservation	-
Kernel ID	-	Capacity Reservation Settings	Open
RAM disk ID	-	Outpost Am	-
Placement group	-		
Partition number	-		
Virtualization	hvm		
Reservation	r-0d5f9c250aeabaa36		

Use the pem file to ssh to the ec-2 with your pem as ec2-user

Allow 443 in Networking and Security Security Groups (note for 2.4 include 8443 too)

🔔 Inbound security group rules successfully modified on security group (sg-0bfd10070f75f7388 | launch-wizard-9)
✕

EC2 > Security Groups > sg-0bfd10070f75f7388 - launch-wizard-9

Delete security group
Copy to new security group

sg-0bfd10070f75f7388 - launch-wizard-9

Details

Security group name launch-wizard-9	Security group ID sg-0bfd10070f75f7388	Description launch-wizard-9 created 2020-04-05T21:42:00.913-04:00	VPC ID vpc-9b4d3dff
Owner 992702096659	Inbound rules count 2 Permission entries	Outbound rules count 1 Permission entry	

Inbound rules
Outbound rules
Tags

Inbound rules Edit inbound rules

Type	Protocol	Port range	Source	Description - optional
SSH	TCP	22	0.0.0.0/0	-
HTTPS	TCP	443	0.0.0.0/0	-

Ensure can talk to database

```
[root@ip-172-30-0-83 ~]# yum install telnet
[root@ip-172-30-0-83 ~]# yum install bind-utils
[root@ip-172-30-0-83 ~]# telnet database-3.cstlzkqw179p.us-east-1.rds.amazonaws.com 3306
Trying 172.30.3.244...
Connected to database-3.cstlzkqw179p.us-east-1.rds.amazonaws.com.
Escape character is '^['.
J
5.7.22UW/%U6jF1pW|O
W;2^mysql_native_password^]
telnet> quit
Connection closed.
[root@ip-172-30-0-83 ~]#
```

Install docker

Here are [docker install instructions from the docker website](#) (pick which os)

Or use another containerization software e.g. podman

See if docker installed, install if not

```
[ec2-user@ip-172-30-0-157 ~]$ sudo su -
Last login: Tue Jan 14 22:13:16 UTC 2020 from isc15-0009-wd.kite.upenn.edu on pts/0
[root@ip-172-30-0-157 ~]# docker
-bash: docker: command not found
```

Linux docker install instructions

Note, you need a linux with systemd. It is not recommended to use amazon linux if it doesnt have systemd or an easy way to install docker

The centos-extras repository must be enabled. This repository is enabled by default, but if you have disabled it, you need to [re-enable it](#).

```
[root@ip-172-30-0-157 ~]# yum install -y yum-utils \
    device-mapper-persistent-data \
    lvm2
[root@ip-172-30-0-157 ~]# sudo yum-config-manager \
    --add-repo \
    https://download.docker.com/linux/centos/docker-ce.repo
[root@ip-172-30-0-157 ~]# yum -y install https://download.docker.com/linux/centos/7/x86_64/stable/Packages
/containerd.io-1.2.6-3.3.el7.x86_64.rpm
[root@ip-172-30-0-157 ~]# yum install docker-ce docker-ce-cli
```