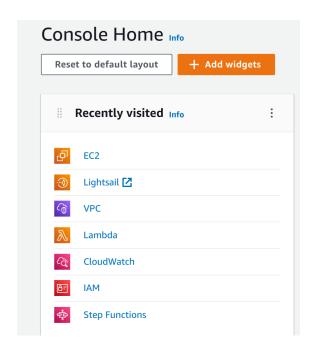
aws_public_ec2_setup

Instructions to set up public AWS EC2 e.g. to host a flask server, dashboard, REST api endpoint, etc.

Go to: AWS

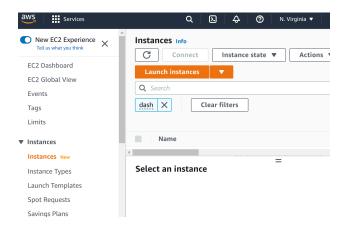
https://us-east-1.console.aws.amazon.com



Go to: EC2

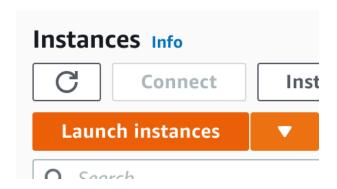
https://us-east-1.console.aws.amazon.com/ec2/

Go to: instances the instances tab

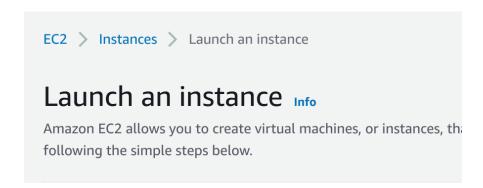


Launch Instance:

Hit the big orange button that says "Launch instances" (plural...for some reason...which of course takes to you "launch an instance" singular)



"launch an instance" singular

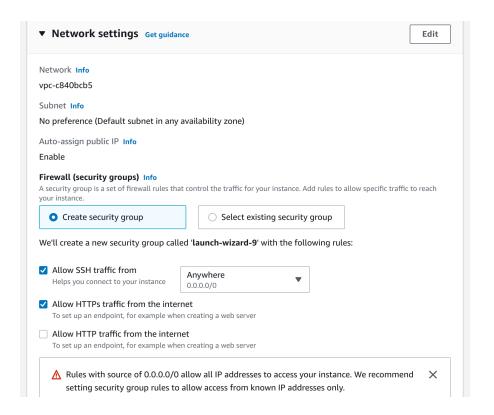


Configure:

- 1. Name and tags -> clear meaningful name, nothing is too obvious. recommended format: "ec2_purpose_yourname_datetime"
- 2. Application and OS Images (Amazon Machine Image) -> default amazon linux
- 3. Instance type -> nano (scroll down)
- 4. Key pair (login) -> select or make new pair
- 5. Network settings...(see below)

Network settings:

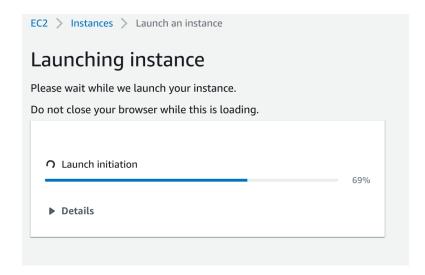
- 1. firewall security group: create or select
- 2. "Allow SSH traffic from": must be on to use EC2 connect later (or SSH in yourself)
- 3. "Allow HTTPs traffic from the internet": If you want this to be public, allow.
- 4. http: maybe leave insecure http off.



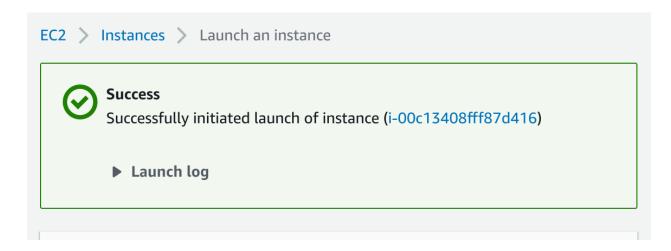
Network settings (continued...)

- 6. Storage (volumes -> use default
- 7. Advanced details Info -> ignore
- 8. Summary -> nothing to do or change here, examine if you want.

Select: Launch Instance

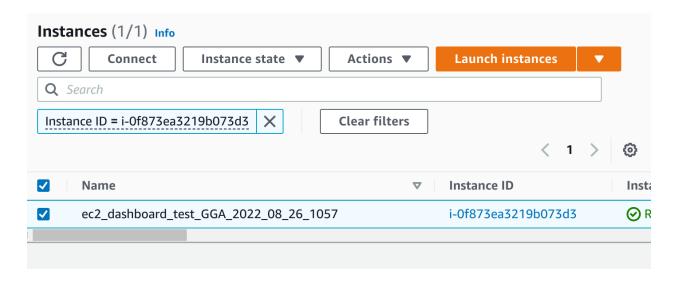


click on blue random string (obviously!...?)



Back at instances window:

your instance should now be highlighted: click on "connect" to connect via web This is much easier that local-cli ssh (web connect is one of the few actually useful working advances AWS has made.



configure in "security"

(Obviously, since you want to do network configuration, and you have the choice of 'networking' you instead need to go to "security." So user friendly.)

Details	Security	Networking	Storage	Status checks	Monitoring	Tags

Another random blue-string-click

In the "Security" tab, under "security groups" (plural?) you see a random blue-string-link. click on that (to configure networking...obviously...)

Instance: i-0f873ea3219b073d3 (ec2_dashboard_test_GGA_2022_08_26_1057)

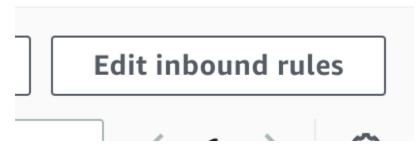
Details Security Networking Storage	Status checks Monitoring Tags		
▼ Security details			
IAM Role –	Owner ID 1 451917392135		
Security groups • sg-0db3475a6b53fcb3f (launch-wizard-10)			

"Inbound rules" You are here!

Finally: This is the basic, rudimentary, necessary, "start here" configuration menu that all this has been leading up to (and should have started with), yet for some obscene reason AWS makes it impossible to even find.

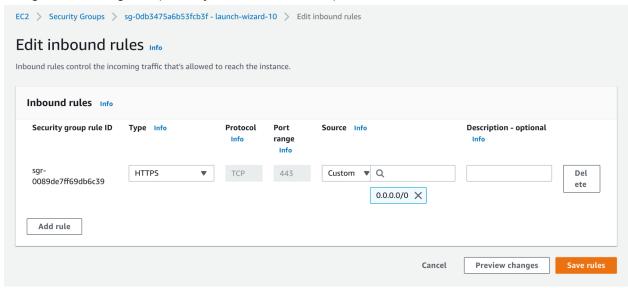
Inbound rules (1/1)	C Manage tags Edit inbound rule
Q Filter security group rules	⟨ 1 ⟩

Click "edit inbound rules"



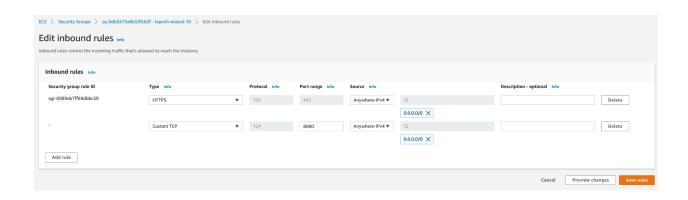
Make and save new rules.

Using the following tool (which you should see now),



Create and save (using the big orange "Save rules" button) the rules in this table. Existing rules may need to be modified or replaced (e.g. HTTPS may be set to custom, set it to Anywhere IPV4)

	Туре	(Protocol)	Port Range	Source	(to)
1.	HTTPS TCP	TCP	443	Anywhere IPV4	0.0.0.0/0
2.	Custom TCP	TCP	8080	Anywhere IPV4	0.0.0.0/0
3.	SSH	TCP	22	Custom	0.0.0.0/0



Another example rule set:

Set Type HTTP, Protocol TCP, Port range 80, and Source to "0.0.0.0/0".

Set Type HTTP, Protocol TCP, Port range 80, and Source to "::/0".

Set Type Custom TCP, Protocol TCP, Port range 8080, and Source to "0.0.0.0/0".

Set Type SSH, Protocol TCP, Port range 22, and Source to "0.0.0.0/0".

Set Type HTTPS, Protocol TCP, Port range 443, and Source to "0.0.0.0/0".

Done.

Go back to the instances tab

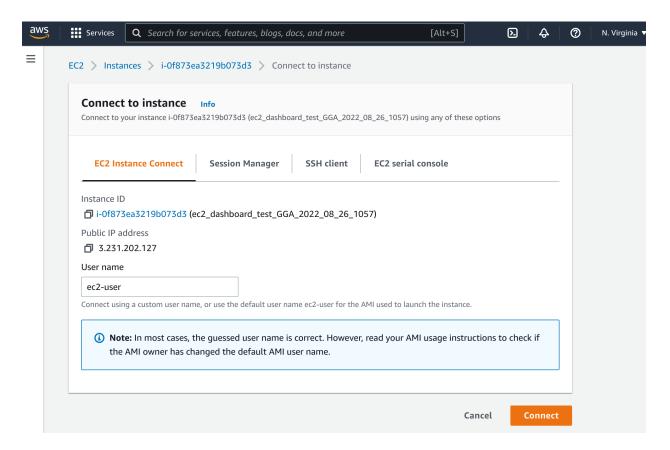


Web Connect

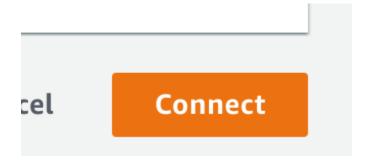
click on "connect"



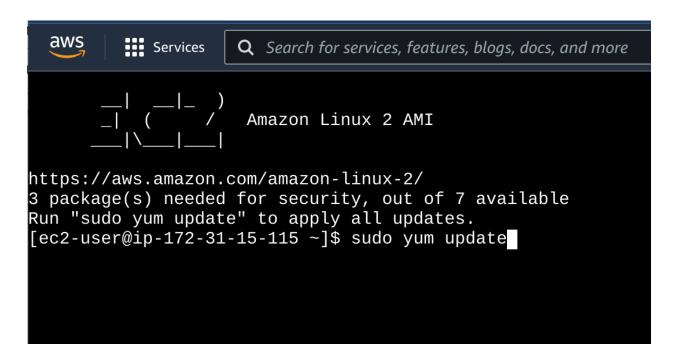
In the 'connect to instance' window in the "EC2 Instance Connect" tab...



Click on "Connect" (the big orange button)...(dejavu?)



Like SSH but with no convoluted local aws-cli setup nightmare. (This is a good thing.)



Optional steps

You are effectively done, but you may want to run these lines, e.g. if you are going to get files from github

\$ sudo yum update -y \$ sudo yum install git -y