

# Maximl Take-home DevOps Assignment

You are required to use AWS Free Tier, AWS Lightsail, or Linode to create a free online instance and you are required to set up the following on that instance. If you face any problems in doing this, kindly call us.

After the setup, kindly share the IP address(es) of the instance(s) that you use for this assignment, and the screenshot (as mentioned below) so that we can evaluate the same.

1. Use SSH tunnel to access the internet.
  - From your LOCAL MACHINE (laptop/desktop), you should be able to access the internet via your CLOUD MACHINE by configuring a SOCKS proxy and SSH tunnel.
  - Deliverable: On visiting **ipecho.net** from your local web browser, the IP address shown should be that of your cloud machine.
    - Kindly share the screenshot of the output of **ipecho.net** upon visiting it in your web browser.
2. Serve a static website using NGINX on port 80
  - The provided file – **index.html** - is a sample HTML page.
  - Deliverable:
    - <IP>:80 should show the page served by this web server service.
    - Gzip must be enabled in the NGINX configuration.
3. Run a Docker container and expose it to port 8000.
  - Run the docker image **kennytennydocker/maximl-nginx:maximl** - it provides a web server service on port 80.
  - Remap the port to port 8000 on the same machine.
  - Deliverable: <IP>:8000 should show the page served by this web server service.