
Problem

Serve a static website using Terraform, Ansible and NGINX.

The following index.html would be in the root of the public directory:

index.html

```
<!DOCTYPE html>
<html lang="en">
  <title>Static Site</title>
  <body>
    <div>
      <h1>Static Website</h1>
    </div>
  </body>
</html>
```

Assumptions

- The hosted public directory also contains other various web content including photos and some larger downloads.
- The hosts running NGINX contain other sensitive data/secrets on them outside of the public directory being served and need to be kept secured.

Requirements

- Use Terraform to provision server resources and write an Ansible playbook to install NGINX.
- Users shouldn't be able to list all of the other content in the public directory without guessing or having a link to the content.
- Use a Linux distribution OS of your choice such as Ubuntu.
- Make sure NGINX stays up to date.
- We want to prevent unauthorized individuals from knowing what version is being used.
- Make sure only the required NGINX modules are enabled to limit attack surface area.
- Optimize NGINX for performance. Assuming there will be lots of requests to the server and a mix of html and some larger photos around 1-10MB in size.
- Users will only be able to consume content from the site, so any unnecessary HTTP requests or network IO should be disabled.
- Make sure all access and error events are logged appropriately.

Considerations

- Fulfill the requirements based on your best understanding of them and your best judgment. No further clarifications will be provided.
- An assessment of your submission will be conducted by humans who will take all factors and circumstances of this assessment process into account. No part of your submission will be run and graded by a machine.

Submission

- All relevant code and files should be submitted to PullRequest in a compressed folder to the submission link provided.
- If you have not received the submission link, or if you have any trouble submitting, please contact dan@pullrequest.com.