

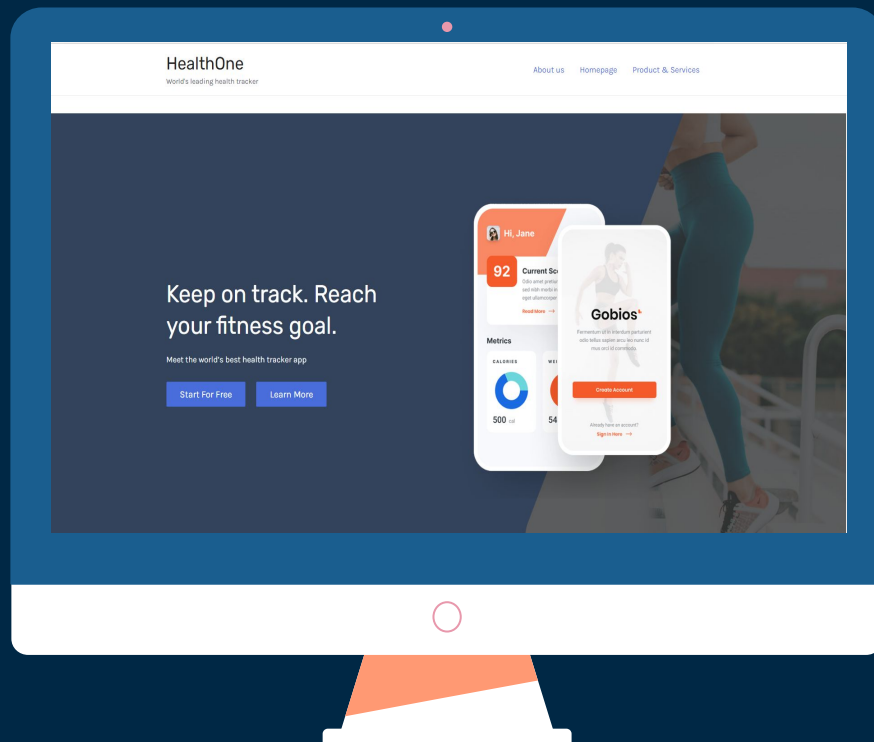
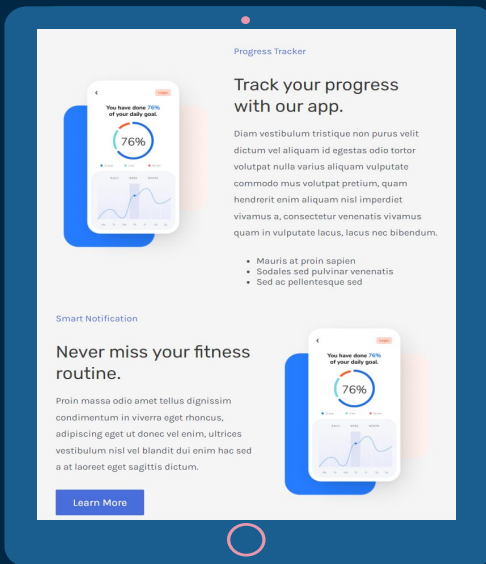
The background is a dark blue field decorated with various geometric elements. It includes numerous small squares in teal, orange, and pink, some of which are solid while others are hollow. Thin white vertical lines of varying lengths are scattered across the composition, creating a modern, minimalist aesthetic.

System Administration

Final Project

HealthOne

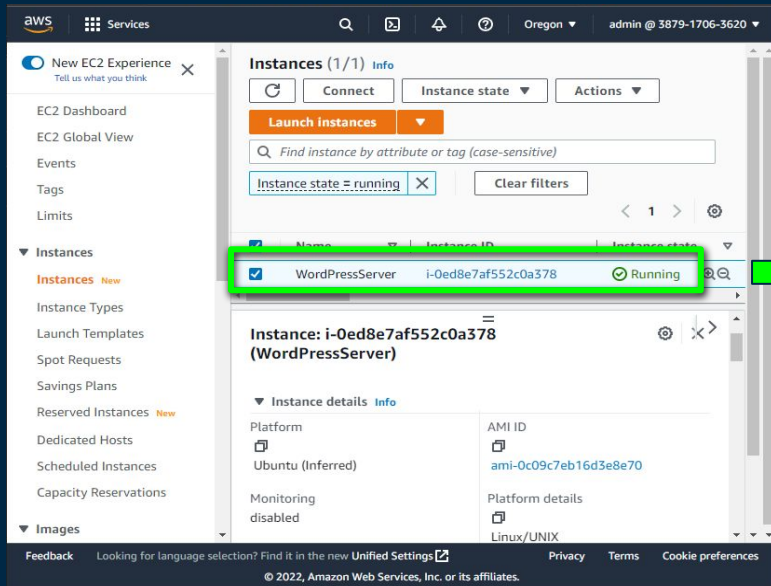
World's leading health tracker



Our Virtual Machines

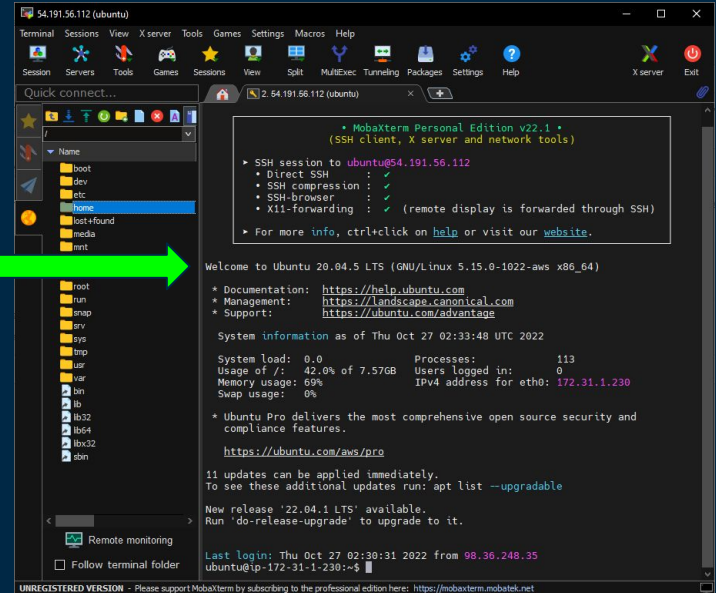
Cloud Computing Service

- Amazon Web Services



Operating System

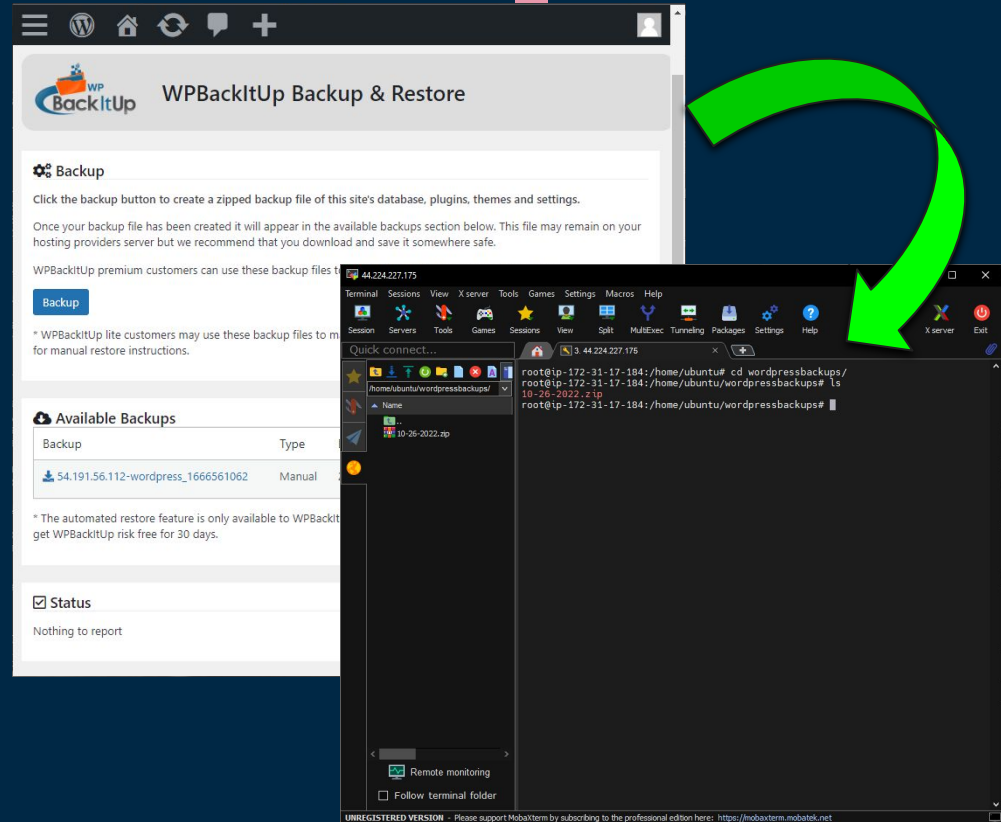
- Running on Ubuntu
- Wordpress Template installed
- Navigated via Remote Desktop



Backing it Up

Via Plugin

- Our team manually performs the backups at least once a week
- They are downloaded and kept in a separate virtual machine
- Automation is preferred in a real scenario



What Access Do Different Users Get?

Users

- A user is an individual who has access to the AWS terminal

Groups

- A container where we can place our users to which they are identified by their roles

Policies

- The policies define the permission for the identities or resources they are associated with



Different Access

Two Teams - Different Access

- Admin - AdministratorAccess
- IT_Team:
 - AWSSecurityHubReadOnlyAccess
 - SecurityAudit
 - AWSSecurityHubFullAccess
 - AWSSecurityHubOrganizationAccess

Users (6) [Info](#)

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password age	Active key age
<input type="checkbox"/>	admin	Administrators	✓ 6 hours ago	None	✓ 8 days ago	-
<input type="checkbox"/>	Devin_Leon	IT_Team	Never	None	✓ Yesterday	-
<input type="checkbox"/>	Ian_Smith	IT_Team	Never	None	✓ Yesterday	-
<input type="checkbox"/>	Jeffrey_Gonzales	IT_Team	Never	None	✓ Yesterday	-
<input type="checkbox"/>	Kaliya_Spears	IT_Team	Never	None	✓ Yesterday	-
<input type="checkbox"/>	Lila_Peters	IT_Team	Never	None	✓ Yesterday	-

User groups (2) [Info](#)

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	Administrators	↕ Loading	↕ Loading	8 days ago
<input type="checkbox"/>	IT_Team	↕ Loading	↕ Loading	Yesterday

Access to WordPress

Marketing Team

- Only allowed to access the WordPress Platform
- They can only perform activities supervised by the administrator or manager

Security

- Only people with specific access can make changes

<input type="checkbox"/> Username	Name	Email
<input type="checkbox"/> Jane_marketing	Jane Doe	marketing1@gmail.com
<input type="checkbox"/> John_marketing	John Whitlock	marketing4@gmail.com
<input type="checkbox"/> Kate_marketing	Kate Williams	marketing2@gmail.com
<input type="checkbox"/> Kim_marketing	Kim Lee	marketing3@gmail.com
<input type="checkbox"/> Manager	Chris Redwoods	manager@gmail.com



Services

[Alt+S]



Oregon ▼

Devin_Leon @ 0597-8444-1414 ▼



Insufficient permissions

Your account does not have necessary permissions required to perform this action.

[Learn more](#)

Security

Public IPv4 address



54.191.56.112 | [open address](#)

Accessing Ubuntu Terminal

- Obtain IPv4 Address
- Download SSH Key
- Download SSH Client (MobaXterm or Putty)

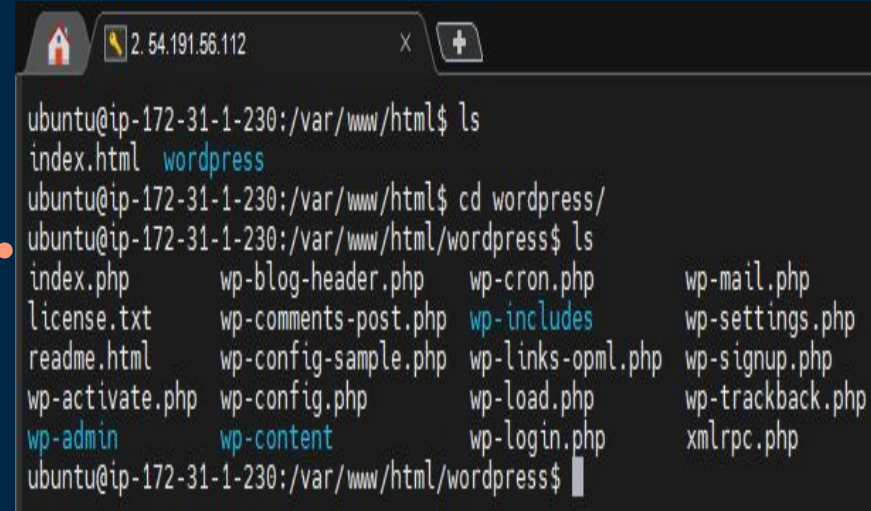
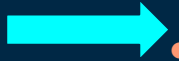
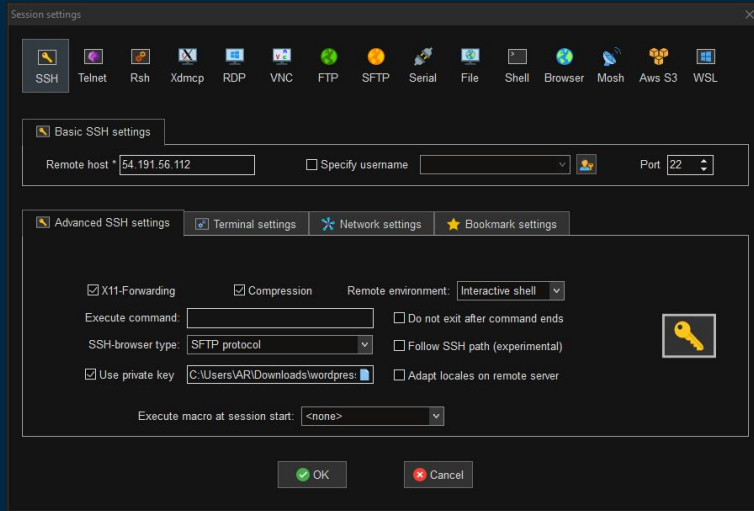


Key pairs (1/1) [Info](#)

<input checked="" type="checkbox"/>	Name	Type	Created
<input checked="" type="checkbox"/>	wordpress_server	rsa	2022/10/14 19:12 GMT-7



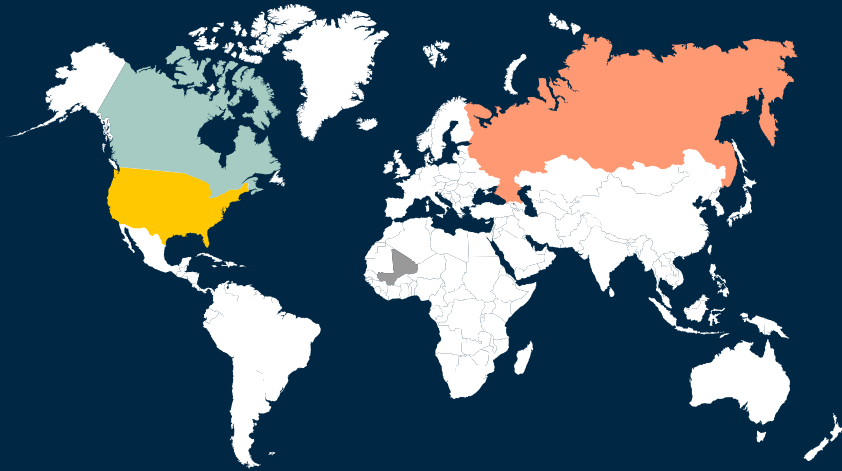
Security



- Used IPv4 IP address & SSH key within SSH client

- SSH client verifies SSH key, granting us access to Ubuntu terminal
- Having a key is important as all files are accessible, including Wordpress

Next Step



- Security
 - Zero knowledge proof (cryptography)
 - Privilege rotation
- Hosting site
- Increase availability
 - EC2 Auto Scaling

The background is a dark navy blue. It is decorated with various geometric elements: small squares in teal, orange, and pink, some of which are solid and others are white outlines. Thin white vertical lines of varying lengths are scattered across the frame. The text 'THANK YOU!' is centered in the middle of the image.

THANK
YOU!

TEAM MEMBERS



—Tammy Sujaritchai



—Anthony Ramirez



—Martin Dela Cruz



—Noe Jimenez



Group 2



—Keairah Washington