**Description**

This AMI contains an NGINX web server pre-configured to run on an Amazon EC2 instance. Once deployed, the NGINX server can be accessed via the instance's public IP address on port 80. This setup is ideal for hosting websites, web applications, and API services with minimal configuration.

**Prerequisites**

* An AWS account.
* Basic knowledge of Amazon EC2 and NGINX.

**Launching the AMI**

1. **Log in to your AWS account** and navigate to the EC2 Dashboard.
2. **Launch Instance:** Click on the "Launch Instance" button and choose the "AWS Marketplace" tab. Search for the relevant AMI and select the AMI from the list.
3. **Choose an Instance Type:** Select an instance type that suits your workload. Click “Next: Configure Instance Details.”
4. **Configure Instance Details:** Set your instance configurations as needed. Here, ensure that the “Auto-assign Public IP” is set to “Enable” if you are in a VPC that does not do this by default. This setting will ensure your instance is accessible over the internet. If this option is not visible or available, it might be because your VPC settings auto-assign public IPs by default or you need to modify your VPC settings. Click “Next” until you reach the “Configure Security Group” step.
5. **Configure Security Group:** Create a new security group with the following rules:
   * Type: HTTP, Protocol: TCP, Port Range: 80, Source: Anywhere (0.0.0.0/0, ::/0) This rule allows traffic on port 80 to access the NGINX server. Click “Review and Launch.”
6. **Review:** Check your instance settings and click “Launch.”
7. **Select a Key Pair:** Choose an existing key pair or create a new one. You will use this to SSH into your instance. Acknowledge that you have access to the selected key pair and click “Launch Instances.”

**Accessing the NGINX Server**

After launching the instance:

1. **Find the Public IP:** Navigate to the EC2 Dashboard, locate your new instance, and copy its public IP address.
2. **Access NGINX:** Open a web browser and enter the public IP address. You should see the product’s landing page, indicating that your server is running and accessible.

**Connecting to Your Instance**

To connect to your instance for configuration changes or troubleshooting:

1. **Open a Terminal** on your computer.
2. **Connect via SSH:** Use the command below, replacing “<YourKeyPair.pem>” with the path to your key pair file and “<PublicIpAddress>” with your instance’s public IP address.

ssh -i <YourKeyPair.pem> ubuntu@<PublicIpAddress>

1. Once connected, you can manage the NGINX server using standard commands. For example, to restart NGINX, you might use:

sudo systemctl restart nginx

**Customizing NGINX**

You can customize your NGINX configuration by editing the nginx.conf file located at **/etc/nginx/nginx.conf**. After making changes, remember to restart NGINX for the changes to take effect.

**Support**

For support, please contact our support team at team@pulse.support. We are here to help with any questions or issues related to the product.

We are here to help with any questions or issues related to the deployment and operation of your NGINX server on AWS.