

OFULUE JOHN FAVOUR

Ofuluejohn39@gmail.com | +2349160364026

Preliminary Assignment for Cyber Security (INTERVIEW TEST QUESTIONS)

MY STEP-BY-STEP DOCUMENTATION: CREATING A NEW SERVER INSTANCE AND INSTALLING PRESTASHOP ON AWS FREE TIER WITH A SEPARATE RDS DATABASE

I started this practical exercise in creating a PrestaShop installation on AWS Free Tier by launching a t3.micro EC2 server instance running Ubuntu Server 22.04 LTS in the Eu-north-1a (Stockholm) region. I named the instance **PrestaShop-ec2**, selected the free-tier-eligible AMI, and configured a new key pair named **prestashop-key.pem** for SSH access. In the network settings, I enabled auto-assignment of a public IP and added inbound rules to allow SSH from my IP address and HTTP from anywhere on port 80, as well as HTTPS from anywhere on port 443. I kept the default 8 GiB gp3 storage and launched the instance. Once running, I noted the public IPv4 DNS, which was (ec2-16-171-64-104.eu-north-1.compute.amazonaws.com), which serves as the publicly accessible URL for the PrestaShop site. I connected to the instance via SSH using the command (ssh -i prestashop-key.pem ec2-16-171-64-104.eu-north-1.compute.amazonaws.com)

In continuation, I connected my host terminal with the virtual EC2 instance via ssh, then updated the system with sudo apt update && sudo apt upgrade -y, then installed Apache with sudo apt install apache2 -y and enabled it to start on boot(sudo systemctl enable apache2 & sudo systemctl start apache2). I went ahead to install PHP 8.1 along with required extensions using (sudo apt install php8.1 libapache2-mod-php8.1 php8.1-mysql php8.1-curl php8.1-gd php8.1-intl php8.1-mbstring php8.1-xml php8.1-zip php8.1-bcmath -y), I proceeded to activate the extensions, and restart Apache (sudo systemctl restart apache). I also installed unzip and wget to handle the PrestaShop files. For a test run, I visited the public DNS in a browser and it displayed the default Apache page, confirming the web server was operational and that it worked.

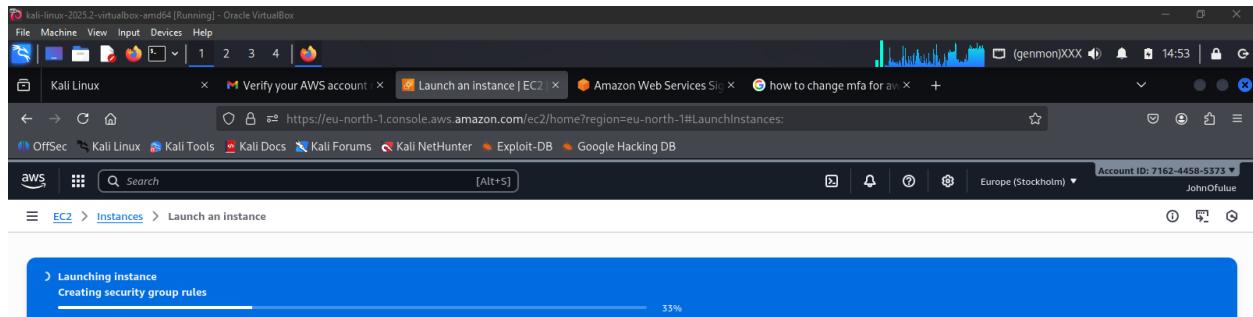
To host the database separately, I created a MySQL 8.0 RDS instance named prestashop-rds using the Free Tier db.t3.micro configuration. I set the master username to ps_user, defined a secure password, and created an initial database named prestashop_db. I ensured public access was disabled and selected the option to connect to the PrestaShop-EC2 instance, which automatically configured the security group to allow MySQL traffic on port 3306 only from the EC2 instance. I noted the RDS endpoint, which was (<http://prestashop-rds.c5eomk22cjfw.eu-north-1.rds.amazonaws.com>), for use during PrestaShop installation.

I downloaded PrestaShop 8.1.6 directly on the EC2 instance via ssh using my host terminal and I used wget to retrieve the ZIP file from the official GitHub releases, unzipped it into /var/www/html, and moved all files to the web root. I set ownership to the Apache user with sudo chown -R www-data:www-data /var/www/html and adjusted permissions to 755 for directories and 777 for writable folders like var, img, cache, config, and upload. To verify database connectivity, I installed the MySQL client on EC2 and successfully connected to the RDS instance using the endpoint, username, password, and database name.

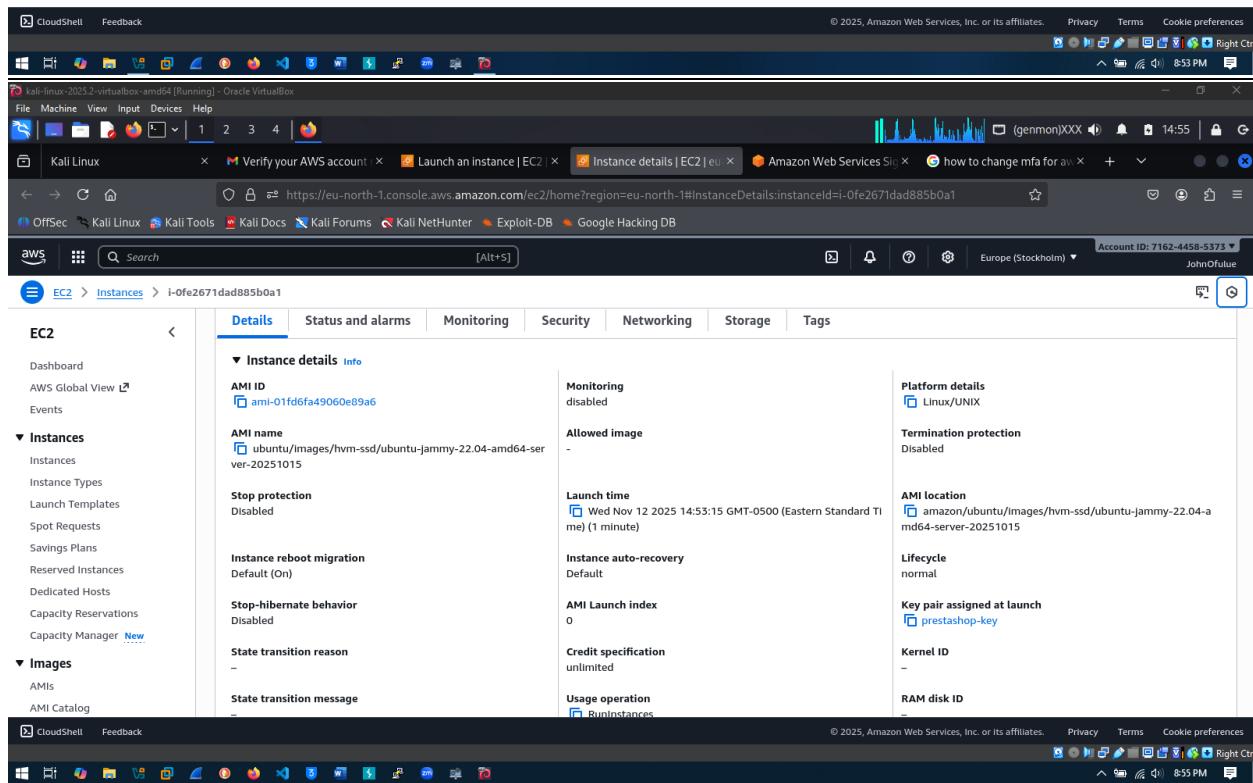
Upon completion of setting permissions and placing the right files in the right web root directories, I accessed the PrestaShop installation wizard by navigating to the public DNS followed by /install in the browser. The system compatibility check passed due to the properly configured LAMP stack. I entered shop details, then in the database configuration step, provided the RDS endpoint, database name prestashop_db, username ps_user, and password. The connection test succeeded, and the installation proceeded to create tables and populate data. After completion, I set up the admin account and deleted the install directory for security purposes by running this command (sudo rm -rf /var/www/html/install)

The final PrestaShop storefront is accessible at the public EC2 DNS, which is (<http://ec2-16-171-64-104.eu-north-1.compute.amazonaws.com/>). The database runs independently on RDS, fulfilling the requirement for separation. All resources remain within AWS Free Tier limits, with no costs incurred. The setup uses default security groups with minimal open ports, HTTP publicly accessible, and MySQL restricted to the EC2 instance only. This completes a secure, functional, and publicly reachable PrestaShop deployment.

PROOF OF CONCEPTS



The screenshot shows a browser window on a Kali Linux host (kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox) displaying the AWS EC2 'Launch an instance' wizard. The progress bar indicates 'Creating security group rules' at 33%. The message 'Please wait while we launch your instance. Do not close your browser while this is loading.' is visible.



The screenshot shows the AWS EC2 'Instance details' page for a newly launched instance (i-0fe2671dad885b0a1). The left sidebar shows the EC2 navigation menu. The main details pane includes:

- AMI ID:** ami-01fd6fa49060e89a6
- AMI name:** ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20251015
- Stop protection:** Disabled
- Instance reboot migration:** Default (On)
- Stop-hibernate behavior:** Disabled
- State transition reason:** -
- State transition message:** -
- Monitoring:** disabled
- Allowed image:** -
- Launch time:** Wed Nov 12 2025 14:53:15 GMT-0500 (Eastern Standard Time) (1 minute)
- Instance auto-recovery:** Default
- AMI Launch index:** 0
- Credit specification:** unlimited
- Usage operation:** RunInstances
- Platform details:** Linux/UNIX
- Termination protection:** Disabled
- AMI location:** amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20251015
- Lifecycle:** normal
- Key pair assigned at launch:** prestashop-key
- Kernel ID:** -
- RAM disk ID:** -

The status bar at the bottom indicates the instance is running in Europe (Stockholm).

```
Kali-Linux-2023.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Session Actions Edit View Help
John99@neptune: ~

[John99@neptune: ~]
$ sudo systemctl enable ssh
[sudo] password for John99:
Synchronizing state of ssh.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable ssh

[John99@neptune: ~]
$ sudo systemctl start ssh

[John99@neptune: ~]
$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: disabled)
     Active: active (running) since Wed 2025-11-12 14:15:40 EST; 42min ago
   Invocation-ID: f370fa96c344eeb94765ca65f9a89e
     Docs: man:sshd(8)
           man:sshd_config(5)
   Main PID: 811 (sshd)
     Tasks: 1 (limit: 5555)
    Memory: 2.4M (peak: 3M)
      CPU: 10ms
     CGroup: /system.slice/ssh.service
             └─811 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Nov 12 14:15:39 neptune systemd[1]: Starting ssh.service - OpenBSD Secure Shell server ...
Nov 12 14:15:40 neptune sshd[811]: Server listening on 0.0.0.0 port 22.
Nov 12 14:15:40 neptune sshd[811]: Server listening on :: port 22.
Nov 12 14:15:40 neptune systemd[1]: Started ssh.service - OpenBSD Secure Shell server.

[John99@neptune: ~]
$ 

Windows Taskbar:
File Machine View Input Devices Help
Session Actions Edit View Help
ubuntu@ip-172-31-25-116: ~

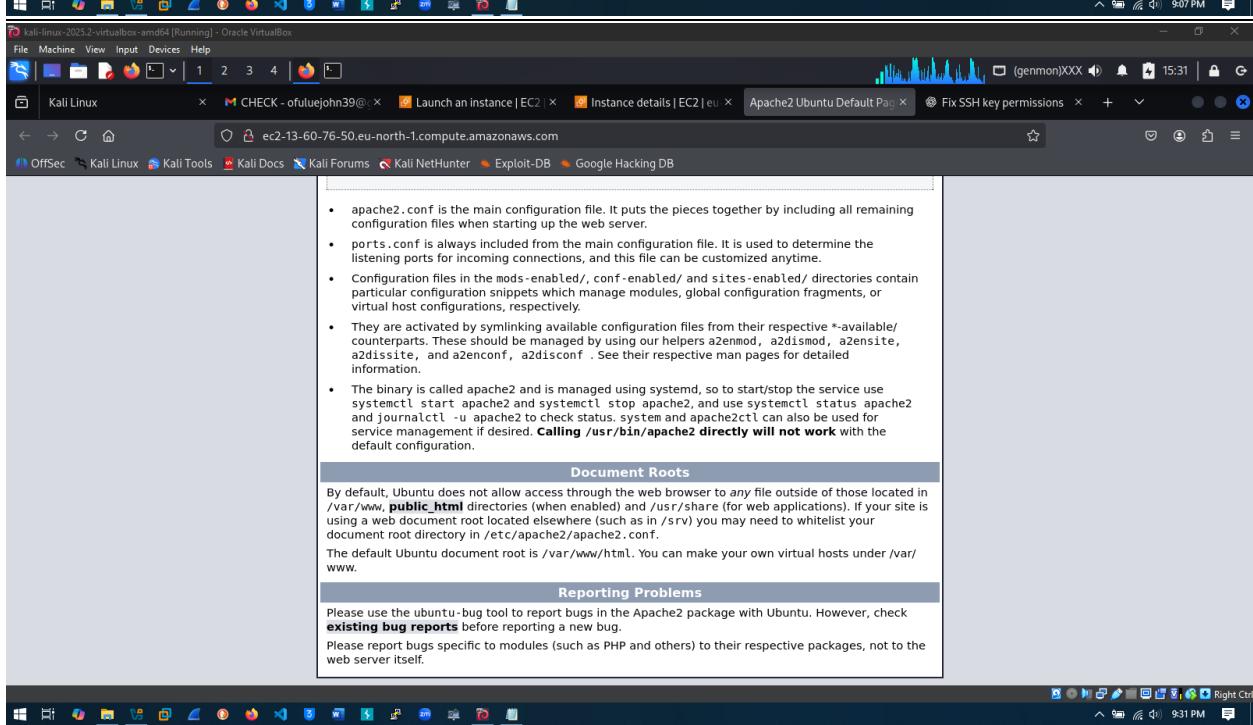
ubuntu@ip-172-31-25-116: ~
File Machine View Input Devices Help
Session Actions Edit View Help
ubuntu@ip-172-31-25-116: ~

Session Actions Edit View Help
File Machine View Input Devices Help
Session Actions Edit View Help
ubuntu@ip-172-31-25-116: ~

Session Actions Edit View Help
File Machine View Input Devices Help
Session Actions Edit View Help
ubuntu@ip-172-31-25-116: ~
```

```
Kali-Linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
[ 1 2 3 4 ] [ Firefox ]
ubuntu@ip-172-31-25-116: ~
Session Actions Edit View Help

Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:5 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:6 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [1632 kB]
Get:7 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [3076 kB]
Get:12 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [475 kB]
Get:13 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [19.0 kB]
Get:14 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [4853 kB]
Get:15 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [903 kB]
Get:16 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [640 kB]
Get:17 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [122 kB]
Get:18 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [108 kB]
Get:19 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [39.8 kB]
Get:20 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [57.6 kB]
Get:21 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [13.2 kB]
Get:22 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [600 B]
Get:23 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [69.4 kB]
Get:24 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.5 kB]
Get:25 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [412 B]
Get:26 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 c-n-f Metadata [116 B]
Get:27 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.1 kB]
Get:28 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [10.0 kB]
Get:29 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:30 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:31 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2816 kB]
Get:32 http://security.ubuntu.com/ubuntu jammy-security/main Translation-en [408 kB]
Get:33 http://security.ubuntu.com/ubuntu jammy-security/main amd64 c-n-f Metadata [13.9 kB]
Get:34 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [4705 kB]
Get:35 http://security.ubuntu.com/ubuntu jammy-security/restricted Translation-en [870 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 c-n-f Metadata [652 B]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/universe Translation-en [220 kB]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [22.4 kB]
Get:40 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [59.5 kB]
Get:41 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [10.2 kB]
Get:42 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [376 B]
Fetched 42.0 MB in 6533 kB/s
Reading package lists... 27%
```



Kali Linux - 2023.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Session Actions Edit View Help

Scanning processes...

Scanning linux images...

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-27-239:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/systemd/systemctl-sysv-install.
Executing: /lib/systemd/systemctl-sysv-install apache2
ubuntu@ip-172-31-27-239:~$ sudo systemctl start apache2
ubuntu@ip-172-31-27-239:~$ sudo apt install php8.1 libapache2-mod-php8.1 php8.1-mysql php8.1-curl php8.1-gd php8.1-intl php8.1-mbstring php8.1-xml php8.1-zip php8.1-bcmath -y
sudo: php8.1-mysql: command not found
sudo: systemctl: command not found
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
fontconfig-config fonts-dejavu-core libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libonig5 libtiff5 libwebp7 libxpm4 libzip4 php-common php8.1-clii php8.1-common
php8.1-bcmath php8.1-clii php8.1-common php8.1-curl php8.1-gd php8.1-intl php8.1-mbstring php8.1-xml php8.1-zip
Suggested packages:
php-pear libgd-tools
The following NEW packages will be installed:
fontconfig-config fonts-dejavu-core libapache2-mod-php8.1 libdeflate0 libfontconfig1 libgd3 libjbig0 libjpeg-turbo8 libjpeg8 libonig5 libtiff5 libwebp7 libxpm4 libzip4 php-common php8.1
php8.1-bcmath php8.1-clii php8.1-common php8.1-curl php8.1-gd php8.1-intl php8.1-mbstring php8.1-xml php8.1-zip
0 upgraded, 28 newly installed, 0 to remove and 1 not upgraded.
Need to get 8345 kB of archives.
After this operation, 31.1 MB of additional disk space will be used.
Get:1 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 Fontconfig dejavu-cors all 2.37-2build1 [1001 kB]
Get:2 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 fontconfig-config all 2.15.1-6.2ubuntu5 [29.1 kB]
Get:3 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 php-common all 2.92ubuntu1 [12.4 kB]
Get:4 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-common amd64 8.1.2-1ubuntu2.22 [1129 kB]
Get:5 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-opcache amd64 8.1.2-1ubuntu2.22 [365 kB]
Get:6 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-readline amd64 8.1.2-1ubuntu2.22 [136.6 kB]
Get:7 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 php8.1-clii amd64 8.1.2-1ubuntu2.22 [1835 kB]
Get:8 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 libapache2-mod-php8.1 amd64 8.1.2-1ubuntu2.22 [1765 kB]
Get:9 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libdeflate0 amd64 1.10-2 [76.9 kB]
Get:10 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libfontconfig1 amd64 2.18.1-4.2ubuntu5 [131 kB]
Get:11 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libjpeg-turbo8 amd64 2.1.2-0ubuntu1 [134 kB]
Get:12 http://eu-north-1.ec2.archive.ubuntu.com/ubuntu jammy/main amd64 libjpeg8 amd64 0c-2ubuntu10 [2264 B]
```

Windows Taskbar: File Explorer, FileZilla, Firefox, Kali Linux, Kali Tools, Kali Docs, Kali Forums, Kali NetHunter, Exploit-DB, Google Hacking DB

Aurora and RDS > Databases > Create database

Additional storage configuration

Connectivity

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

EC2 instance

Choose the EC2 instance to add as the compute resource for this database. A VPC security group is added to this EC2 instance. A VPC security group is also added to the database with an inbound rule that allows the EC2 instance to access the database.

I-0260d5e666a8bee7b
prestashop-EC2

Some VPC settings can't be changed when a compute resource is added

Adding an EC2 compute resource automatically selects the VPC, DB subnet group, and public access settings for this database. To allow the EC2 instance to access the database, a VPC security group rds-ec2-X is added to the database and another called ec2-rds-X to the EC2 instance. You can remove the new security group for the database only by removing the compute resource.

Virtual private cloud (VPC)

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

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kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Kali Linux CHECK - ofuluejohn39@ | Databases | Aurora and RDS Instance details | EC2 | eu Apache2 Ubuntu Default Page Fix SSH key permissions + 15:40 | 1 2 3 4

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+S]

Aurora and RDS > Databases

Creating database prestashop-rds

Your database might take a few minutes to launch. You can use settings from prestashop-rds to simplify configuration of suggested database add-ons while we finish creating your DB for you.

Databases (1)

Filter by databases

DB identifier Status Role Engine Region ... Size

prestashop-rds Creating Instance MySQL Co... eu-north-1a db.t3.micro

Group resources Modify Actions Create database

View connection details

Events cloudShell Feedback

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kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Kali Linux CHECK - ofuluejohn39@ | Databases | Aurora and RDS Instance details | EC2 | eu Apache2 Ubuntu Default Page Fix SSH key permissions + 15:45 | 1 2 3 4

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+S]

Aurora and RDS > Databases

Successfully created database prestashop-rds

You can use settings from prestashop-rds to simplify configuration of suggested database add-ons while we finish creating your DB for you.

Databases (1)

Filter by databases

DB identifier Status Role Engine Region ... Size

prestashop-rds Backin... Instance MySQL Co... eu-north-1a db.t3.micro

Group resources Modify Actions Create database

View connection details

Events cloudShell Feedback

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Kali Linux - 2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Kali Linux CHECK - ofuluejohn Databases | Aurora Instances | EC2 | eu Instance details | EC Apache2 Ubuntu Default Fix SSH key permis

Instances | EC2 | eu Instance details | EC Apache2 Ubuntu Default Fix SSH key permis

https://eu-north-1.console.aws.amazon.com/ec2/home?region=eu-north-1#Instancesv=3;instanceId=i-0260d5e666a8bee7b

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+S]

Account ID: 7162-4458-5373 Europe (Stockholm) JohnOfulue

EC2 Instances

Instances (1) Info

Last updated 1 minute ago Connect Instance state Actions Launch instances

Find Instance by attribute or tag (case-sensitive)

Instance ID = i-0260d5e666a8bee7b Clear filters

Name Instance ID Instance state Instance type Status check Alarm status Availability Zone Public IPv4 DNS

prestashop-EC2 i-0260d5e666a8bee7b Running t3.micro 3/3 checks passed eu-north-1a ec2-13-60-76-50.eu-no.

Select an instance

CloudShell Feedback

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Kali Linux CHECK - ofuluejohn Instances | EC2 | eu Instance details | EC Apache2 Ubuntu Default Fix SSH key permis

https://eu-north-1.console.aws.amazon.com/rds/home?region=eu-north-1#databaseId=prestashop-rds/is-cluster=false

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+S]

Account ID: 7162-4458-5373 Europe (Stockholm) JohnOfulue

Aurora and RDS Databases prestashop-rds

Successfully created database prestashop-rds

You can use settings from prestashop-rds to simplify configuration of suggested database add-ons while we finish creating your DB for you.

View connection details

prestashop-rds

C G Modify Actions

Summary

DB identifier	Status	Role	Engine	Recommendations
prestashop-rds	Backing-up	Instance	MySQL Community	
CPU	Class	Current activity	Region & AZ	
-	db.t3.micro		eu-north-1a	

Connectivity & security Monitoring Logs & events Configuration Zero-ETL integrations Maintenance & backups Data migration

Connectivity & security

Endpoint & port Networking Security

CloudShell Feedback

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Kali Linux - 2023.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 2 3 4

Kali Linux CHECK - ofuluejohn Aurora and RDS | eu- Instances | EC2 | eu- Instance details | EC2 | Apache2 Ubuntu Default | Fix SSH key permission

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+5]

Aurora and RDS > Databases > prestashop-rds Configuration

Connectivity & security Monitoring Logs & events Configuration Zero-ETL integrations Maintenance & backups Data migration

Instance

Configuration	Instance class	Primary storage	Monitoring
DB instance ID prestashop-rds	Instance class db.t3.micro	Encryption Enabled	Monitoring type Database Insights - Standard
Engine version 8.0.42	vCPU 2	AWS KMS key aws/rds	Performance Insights Disabled
RDS Extended Support Disabled	RAM 1 GB	Storage type General Purpose SSD (gp2)	Enhanced Monitoring Disabled
DB name prestashop_db	Availability	Storage 20 GiB	
License model General Public License	Master username ps_user	Provisioned IOPS -	
Option groups default:mysql-8-0 In sync	Master password *****	Storage throughput -	

Events cloudShell Feedback

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Kali Linux - 2023.2-virtualbox-amd64 [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

1 2 3 4

ubuntu@ip-172-31-27-239:~

Session Actions Edit View Help

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

```
ubuntu@ip-172-31-27-239:~$ Read from remote host ec2-13-60-76-50.eu-north-1.compute.amazonaws.com: Connection reset by peer
Connection to ec2-13-60-76-50.eu-north-1.compute.amazonaws.com closed.
client_loop: send disconnect: Broken pipe
```

```
[John09@nptune: ~]
$ ssh -l prestashop-key.pem ubuntu@ec2-13-60-76-50.eu-north-1.compute.amazonaws.com
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-1040-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/pro

System information as of Wed Nov 12 20:53:52 UTC 2025

System load: 0.08 Processes: 115
Usage of /: 31.2% of 7.57GB Users logged in: 1
Memory usage: 33% IPv4 address for ens5: 172.31.27.239
Swap usage: 0%
```

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

New release '24.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

```
** System restart required **
Last login: Wed Nov 12 20:24:30.2025 from 102.89.23.22
ubuntu@ip-172-31-27-239:~$ cd /var/www/html
sudo wget https://github.com/PrestaShop/PrestaShop/releases/download/8.1.6/prestashop_8.1.6.zip
sudo unzipprestashop_8.1.6.zip
sudo mvprestashop_8.1.6.zip
sudo rm -rfprestashopprestashop_8.1.6.zip
```

File Machine View Input Devices Help

1 2 3 4

(genmon)XXX 15:47

OffSec Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

aws Search [Alt+5]

Aurora and RDS > Databases > prestashop-rds Configuration

Connectivity & security Monitoring Logs & events Configuration Zero-ETL integrations Maintenance & backups Data migration

Instance

Configuration	Instance class	Primary storage	Monitoring
DB instance ID prestashop-rds	Instance class db.t3.micro	Encryption Enabled	Monitoring type Database Insights - Standard
Engine version 8.0.42	vCPU 2	AWS KMS key aws/rds	Performance Insights Disabled
RDS Extended Support Disabled	RAM 1 GB	Storage type General Purpose SSD (gp2)	Enhanced Monitoring Disabled
DB name prestashop_db	Availability	Storage 20 GiB	
License model General Public License	Master username ps_user	Provisioned IOPS -	
Option groups default:mysql-8-0 In sync	Master password *****	Storage throughput -	

Events cloudShell Feedback

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```
kali-linux-2025.2-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Session Actions Edit View Help
Retrying.
--2025-11-12 22:17:22 -- (try: 3) https://github.com/PrestaShop/PrestaShop/releases/download/8.1.6/prestashop_8.1.6.zip
Connecting to github.com (github.com)|4.225.11.194|:443 ... ^C
ubuntu@ip-172-31-27-239:[/var/www/html]$ sudo wget https://github.com/PrestaShop/PrestaShop/releases/download/8.1.6/prestashop_8.1.6.zip
--2025-11-12 22:19:08 -- https://github.com/PrestaShop/PrestaShop/releases/download/8.1.6/prestashop_8.1.6.zip
Resolving github.com (github.com)... 4.225.11.194
Connecting to github.com (github.com)|4.225.11.194|:443 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 78183042 (78M) [application/octet-stream]
Saving to: 'prestashop_8.1.6.zip'

prestashop_8.1.6.zip          100%[=====]   78.38M 23.1MB/s  in 3.4s

2025-11-12 22:20:20 (23.1 MB/s) - 'prestashop_8.1.6.zip' saved [82183042/82183042]

ubuntu@ip-172-31-27-239:[/var/www/html]$ sudo chown -R www-data:www-data /var/www/html
sudo chmod -R 755 /var/www/html
sudo chmod -R 777 /var/www/html/var /var/www/html/img /var/www/html/cache /var/www/html/log /var/www/html/upload
chmod: cannot access '/var/www/html/var': No such file or directory
chmod: cannot access '/var/www/html/img': No such file or directory
chmod: cannot access '/var/www/html/cache': No such file or directory
chmod: cannot access '/var/www/html/log': No such file or directory
chmod: cannot access '/var/www/html/upload': No such file or directory
ubuntu@ip-172-31-27-239:[/var/www/html]$ sudo unzipprestashop_8.1.6.zip
Extractingprestashop_8.1.6.zip
inflating:prestashop_8.1.6.zip
inflating:index.php
inflating:Install_PrestaShop.html
ubuntu@ip-172-31-27-239:[/var/www/html]$
```

The screenshot shows a Kali Linux VM running in Oracle VirtualBox. The user is on the AWS EC2 Security Groups page, viewing the details for a security group named 'sg-0fba089c91b5bd63a' created by 'JohnOfulue'. The security group has two outbound rules: one for All traffic (Protocol All) and another for MySQL/Aurora (TCP port 3306). The interface includes tabs for Inbound and Outbound rules, sharing, VPC associations, and tags.

Kali Linux - 2025-11-12 23:47:08 [82183042] [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Session Actions Edit View Help

--2025-11-12 23:47:08 - https://github.com/PrestaShop/PrestaShop/releases/download/8.1.6/prestashop_8.1.6.zip

Resolving github.com (github.com) ... 4.225.11.194

Connecting to github.com (4.225.11.194): 220.113.122.144:443 ... connected.

HTTP request sent, awaiting response... 200 OK

Location: https://release-assets.githubusercontent.com/github-production-release-asset/6763587/6194dd4f-b8a4-40a9-ab6f-6549a231c26c?sp=r&sv=2018-11-09&sr=b&sp=https&se=2025-11-13T00:53A23X3A16Z6rscd+attachment%3Bfilename%3Dprestashop_8.1.6.zip&rsrc=application%2Foctet-stream&skoid=96cd2d10-5711-43a1-aedd-ah1947aa7a0&ssktid=398a6654-997b-47e9-b12b-9515b896badbe&skst=2025-11-12T23X3A22X3A22Z5ske=2025-11-13T00:53A23X3A16Z6sks=0&b5skv=2025-11-09&slg=a0a5vFBMabtBa1gMs1gZwqgya5k%2B18GFowQkoNgMx3D9jw=eyJ0eXA1o1jKV01LCjhGc1o1jU01iN9j-eyJ0cM1o1JnJaR0dW1yZ9r1i1wiLYXKvjoiMcwzWFzZWFzcV0CHbZHVjdGlvb1s1bg91yMhVmcmUd2luzG93cy5uZQxiQ.1kxViPjHBN1zfzfu06B375u1E7X0L2YYXo24QcResponse-content-disposition=attachment%3B%20filename%3Dprestashop_8.1.6.zip&response-content-type=application%2Foctet-stream [following]

Releasing release-assets.githubusercontent.com (release-assets.githubusercontent.com) ... 185.199.109.133, 185.199.110.133, 185.199.111.133, ...

Connecting to release-assets.githubusercontent.com (release-assets.githubusercontent.com) ... 185.199.109.133|443 ... connected.

HTTP request sent, awaiting response ... 200 OK

Length: 82183042 (78M) [application/octet-stream]

Saving to: "prestashop_8.1.6.zip"

prestashop_8.1.6.zip 100%[=====] 78.38M 82.1MB/s in 1.0s

2025-11-12 23:47:09 (82.1 MB/s) - 'prestashop_8.1.6.zip' saved [82183042/82183042]

ubuntu@ip-172-31-26-228:[/var/www/html]\$ ls -la

total 80280

drwxr-xr-x 2 root root 4096 Nov 12 23:47 .

drwxr-xr-x 3 root root 4096 Nov 12 23:27 ..

-rw-r--r-- 1 root root 10671 Nov 12 23:27 index.html

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo unzipprestashop_8.1.6.zip -d prestashop

Archive: prestashop_8.1.6.zip

inflating: prestashop/prestashop.zip

inflating: prestashop/index.php

inflating: prestashop/install_PrestaShop.html

ubuntu@ip-172-31-26-228:[/var/www/html]\$ ls -la

total 80284

drwxr-xr-x 3 root root 4096 Nov 12 23:48 .

drwxr-xr-x 3 root root 4096 Nov 12 23:27 ..

-rw-r--r-- 1 root root 10671 Nov 12 23:27 index.html

drwxr-xr-x 2 root root 4096 Nov 12 23:48 prestashop

-rw-r--r-- 1 root root 82183042 May 14 2024prestashop_8.1.6.zip

ubuntu@ip-172-31-26-228:[/var/www/html]\$

Kali Linux - 2025-11-12 23:47:08 [82183042] [Running] - Oracle VirtualBox

File Machine View Input Devices Help

Session Actions Edit View Help

--2025-11-12 23:47:09 (82.1 MB/s) - 'prestashop_8.1.6.zip' saved [82183042/82183042]

ubuntu@ip-172-31-26-228:[/var/www/html]\$ ls -la

total 80280

drwxr-xr-x 2 root root 4096 Nov 12 23:47 .

drwxr-xr-x 3 root root 4096 Nov 12 23:27 ..

-rw-r--r-- 1 root root 10671 Nov 12 23:27 index.html

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo unzipprestashop_8.1.6.zip -d prestashop

Archive: prestashop_8.1.6.zip

inflating: prestashop/prestashop.zip

inflating: prestashop/index.php

inflating: prestashop/install_PrestaShop.html

ubuntu@ip-172-31-26-228:[/var/www/html]\$ ls -la

total 80284

drwxr-xr-x 3 root root 4096 Nov 12 23:48 .

drwxr-xr-x 3 root root 4096 Nov 12 23:27 ..

-rw-r--r-- 1 root root 10671 Nov 12 23:27 index.html

drwxr-xr-x 2 root root 4096 Nov 12 23:48 prestashop

-rw-r--r-- 1 root root 82183042 May 14 2024prestashop_8.1.6.zip

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo mvprestashop/* /var/www/html/

ubuntu@ip-172-31-26-228:[/var/www/html]\$ ls -la

total 168384

drwxr-xr-x 3 root root 4096 Nov 12 23:50 .

drwxr-xr-x 3 root root 4096 Nov 12 23:27 ..

-rw-r--r-- 1 root root 522 Apr 30 2024 Install_PrestaShop.html

-rw-r--r-- 1 root root 10671 Nov 12 23:27 index.html

-rw-r--r-- 1 root root 690437 May 13 2024 index.php

drwxr-xr-x 2 root root 4096 Nov 12 23:50prestashop

-rw-r--r-- 1 root root 8050711 May 13 2024prestashop_8.1.6.zip

ubuntu@ip-172-31-26-228:[/var/www/html]\$ mvprestashop/* /var/www/html/

mv: cannot stat 'prestashop/*': No such file or directory

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo mvprestashop/*.

mv: missing destination file operand after 'prestashop/*'. Try 'mv --help' for more information.

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo chown -R www-data:www-data /var/www/html

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo find /var/www/html -type d -exec chmod 755 {} ;

ubuntu@ip-172-31-26-228:[/var/www/html]\$ sudo find /var/www/html -type f -exec chmod 644 {} ;

ubuntu@ip-172-31-26-228:[/var/www/html]\$

kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox

```

File Machine View Input Devices Help
Session Actions Edit View Help
(Reading database ... 97757 files and directories currently installed.)
Preparing to unpack .../mysql-client-core-8.0_8.0.43~Ubuntu0.22.04.2_amd64.deb ...
Unpacking mysql-client-core-8.0 (8.0.43~Ubuntu0.22.04.2) ...
Selecting previously unselected package mysql-common.
Preparing to unpack .../mysql-common_5.8+1.8_all.deb ...
Unpacking mysql-common (5.8+1.8) ...
Selecting previously unselected package mysql-client-8.0.
Preparing to unpack .../mysql-client-8.0_8.0.43~Ubuntu0.22.04.2_amd64.deb ...
Unpacking mysql-client-8.0 (8.0.43~Ubuntu0.22.04.2) ...
Selecting previously unselected package mysql-client.
Preparing to unpack .../mysql-client_8.0_8.0.43~Ubuntu0.22.04.2_all.deb ...
Unpacking mysql-client (8.0.43~Ubuntu0.22.04.2) ...
Setting up mysql-common (5.8+1.0.8)
update-alternatives: using /etc/mysql/my.cnf fallback to provide /etc/mysql/my.cnf (my.cnf) in auto mode
Setting up mysql-client-8.0 (8.0.43~Ubuntu0.22.04.2) ...
Setting up mysql-client-8.0 (8.0.43~Ubuntu0.22.04.2) ...
Setting up mysql-client (8.0.43~Ubuntu0.22.04.2) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

No services need to be restarted.
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-26-228:~$ mysql -h prestashop-rds.c5eomk22cfw.eu-north-1.rds.amazonaws.com -P 3306 -u ps_user -p prestashop_db
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 31
Server version: 8.0.42 Source distribution

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> 
```

Windows taskbar:

- Chk - ofuluejo
- Preliminary
- aws console
- prestashop-rds
- Instance data
- Apache2 Ubuntu
- SSH connect
- wget latest
- Releases - Pre
- OffSec
- Kali Linux
- Kali Tools
- Kali Docs
- Kali Forums
- Kali NetHunter
- Exploit-DB
- Google Hacking DB

Aurora and RDS - Database: prestashop-rds

Successfully created database prestashop-rds

You can use settings from prestashop-rds to simplify configuration of suggested database add-ons while we finish creating your DB for you.

prestashop-rds

Summary

DB identifier	Status	Role	Engine	Recommendations
prestashop-rds	Available	Instance	MySQL Community	
CPU	Class	Current activity	Region & AZ	
-	db.t3.micro		eu-north-1a	

Connectivity & security

Endpoint & port **Networking** **Security**

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The image shows two screenshots of a Kali Linux desktop environment. The top screenshot is a terminal window titled 'ubuntu@ip-172-31-26-228: /var/www/html'. It displays a file listing from the command line, showing various files and their permissions. The bottom screenshot shows a web browser window with the URL 'ec2-16-171-64-104.eu-north-1.compute.amazonaws.com/install/'. This is the 'Installation Assistant' page for PrestaShop 8.1.6. The page includes a navigation menu on the left, a main title 'Welcome to the PrestaShop 8.1.6 Installer', and a language selection dropdown set to 'English (English)'. A note at the bottom states: 'The language selection above only applies to the Installation Assistant. Once your store is installed, you can choose the language of your store from over 60 translations, all for free!'. A 'Next' button is visible at the bottom right of the form.

```
kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox
File Machine View Input Devices Help
Session Actions Edit View Help
ubunto@ip-172-31-26-228:/var/www/html

-rw-r--r-- 1 root root 11654 May 13 2024 config.inc.php
-rw-r--r-- 1 root root 1337 May 13 2024 db_slave_server.inc.php
-rw-r--r-- 1 root root 7749 May 13 2024 defines.inc.php
-rw-r--r-- 1 root root 3303 May 13 2024 defines_uri.inc.php
-rw-r--r-- 1 root root 160 May 13 2024 index.php
drwxr-xr-x 5 root root 4096 May 13 2024 smarty
-rw-r--r-- 1 root root 8869 May 13 2024 smarty_config.inc.php
-rw-r--r-- 1 root root 6008 May 13 2024 smartyadmin.config.inc.php
-rw-r--r-- 1 root root 9503 May 13 2024 smartyfront.config.inc.php
drwxr-xr-x 2 root root 4096 May 13 2024 themes
drwxr-xr-x 3 root root 4096 May 13 2024 xml

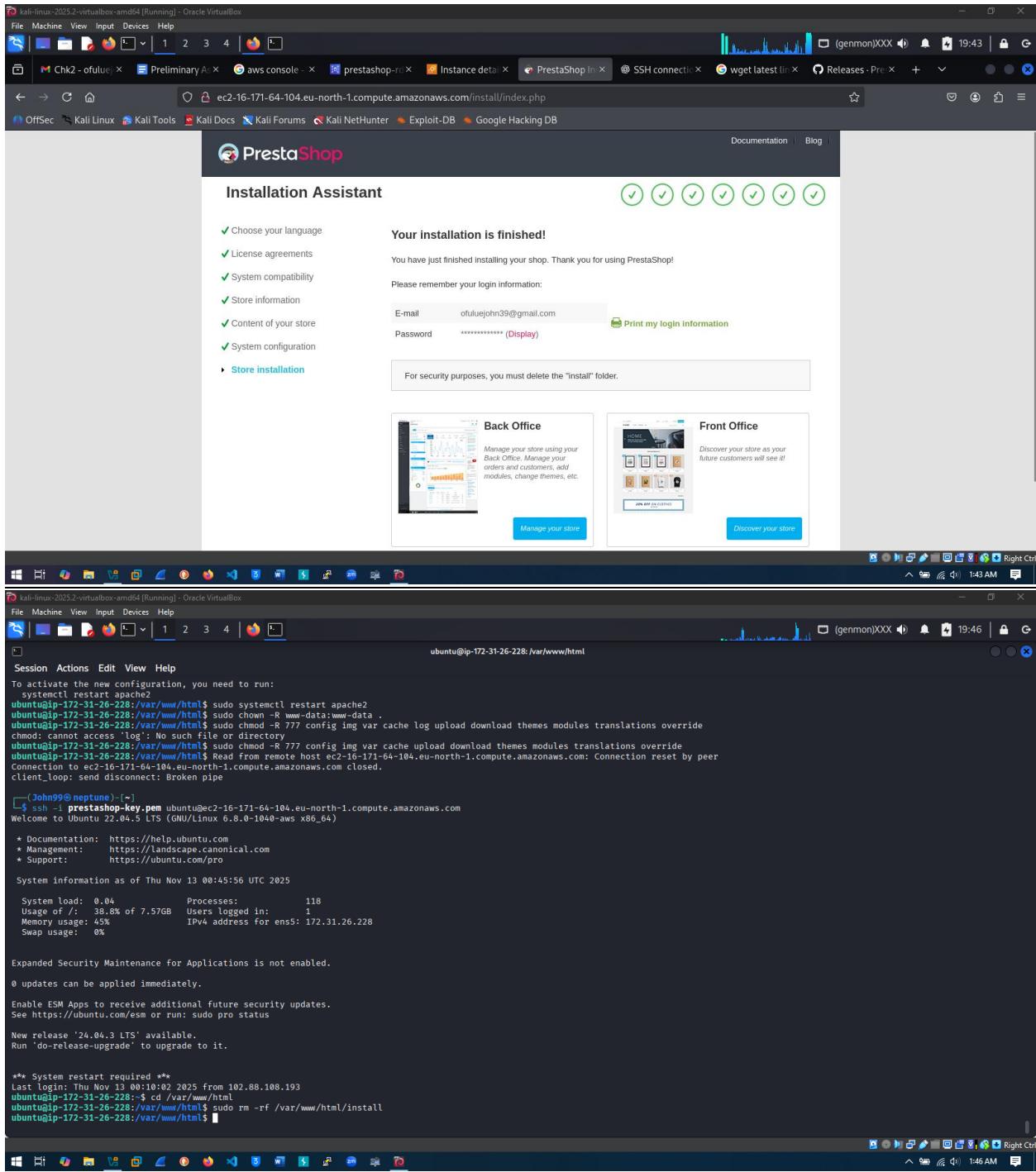
install:
total 40
drwxr-xr-x 9 root root 4096 May 13 2024 .
drwxr-xr-x 29 www-data www-data 4096 Nov 13 00:18 ..
-rw-r--r-- 1 root root 1750 May 13 2024 autoload.php
drwxr-xr-x 2 root root 4096 May 13 2024 classes
drwxr-xr-x 4 root root 4096 May 13 2024 controllers
drwxr-xr-x 4 root root 4096 May 13 2024 data
drwxr-xr-x 3 root root 4096 May 13 2024 fixtures
-rw-r--r-- 1 root root 2178 May 13 2024 index.php
-rw-r--r-- 1 root root 2603 May 13 2024 index.cli.php
-rw-r--r-- 1 root root 7583 May 13 2024 index.php
-rw-r--r-- 1 root root 1322 May 13 2024 install_version.php
drwxr-xr-x 48 root root 4096 May 13 2024 langs
-rw-r--r-- 1 root root 2982 May 13 2024 missing_requirement.php
drwxr-xr-x 2 root root 4096 May 13 2024 sandbox
drwxr-xr-x 6 root root 4096 May 13 2024 themes
drwxr-xr-x 6 root root 4096 May 13 2024 them

ubuntu@ip-172-31-26-228:/var/www/html$ sudo nano /etc/apache2/mods-enabled/dir.conf
ubuntu@ip-172-31-26-228:/var/www/html$ sudo systemctl restart apache
Failed to restart apache.service: Unit apache.service not found.
ubuntu@ip-172-31-26-228:/var/www/html$ sudo systemctl restart apache2
ubuntu@ip-172-31-26-228:/var/www/html$ sudo mkdir p var/cache
ubuntu@ip-172-31-26-228:/var/www/html$ sudo chown -R www-data:www-data var
ubuntu@ip-172-31-26-228:/var/www/html$ sudo chmod -R 777 var
ubuntu@ip-172-31-26-228:/var/www/html$ sudo systemctl restart apache2
ubuntu@ip-172-31-26-228:/var/www/html$ sudo a2enmod rewrite
Enabling module rewrite.
To activate the new configuration, you need to run:
    systemctl restart apache2
ubuntu@ip-172-31-26-228:/var/www/html$ sudo systemctl restart apache2
ubuntu@ip-172-31-26-228:/var/www/html$
```

The screenshot shows a Kali Linux terminal window titled "kali-linux-2023.2-virtualbox-amd64 [Running] - Oracle VirtualBox". The terminal displays the command-line interface for configuring and restarting the Apache web server. It includes commands like `sudo nano /etc/apache2/mods-enabled/dir.conf` and `sudo systemctl restart apache2`. The terminal also shows the output of these commands, including error messages about unit files not found and successful restarts.

Below the terminal, the desktop environment shows multiple browser tabs open, including "PrestaShop", "aws console", "Instance data", "SSH connect", "wget latest", "Releases - Pre-", and "OffSec", "Kali Linux", "Kali Tools", "Kali Forums", "Kali NetHunter", "Exploit-DB", and "Google Hacking DB". The PrestaShop installation assistant is visible, showing the "Installation Assistant" step with a green success message: "PrestaShop compatibility with your system environment has been verified".

The screenshot shows the PrestaShop Installation Assistant running on a Kali Linux desktop. The window title is "Installation Assistant". On the left, a sidebar lists completed steps: "Choose your language", "License agreements", "System compatibility", "Store information", and "Content of your store". A "System configuration" section is currently selected, with "Store installation" as the sub-step. The main area is titled "Configure your database by filling out the following fields". It contains fields for "Database server address" (set to "2cjqfw.eu-north-1.rds.amazonaws.com"), "Database name" ("prestashop_db"), "Database login" ("root"), and "Database password" (left empty). Other fields include "Tables prefix" ("ps_") and "Drop existing tables" (checked). A blue button at the bottom says "Test your database connection now!". Below the form, a message box displays a green checkmark and the text "Database is connected". The status bar at the bottom of the window shows "PrestaShop Project | Documentation | © 2007-2025".



Kali Linux - Oracle VM VirtualBox

File Machine View Input Devices Help

Chk2 - ofulue | Preliminary A | aws console | prestashop-rd | Instance data | first_test shop | SSH connect | wget latest | Releases - Pre | OffSec | Kali Linux | Kali Tools | Kali Docs | Kali Forums | Kali NetHunter | Exploit-DB | Google Hacking DB

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SAMPLE 1
EXCEPTEUR OCCAECAT
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Proin tristique in tortor et dignissim. Quisque non tempor leo. Maecenas egestas sem elit.

POPULAR PRODUCTS

ec2-16-171-64-104.eu-north-1.compute.amazonaws.com/index.php?id_product=4&id_product_attribute=16&rewrite=the-adventure-begins-framed-poster&controller=product#/19-dimension-40x60cm

Windows Taskbar: 1:47 AM

File Machine View Input Devices Help

Chk2 - ofulue | Preliminary A | aws console | prestashop-rd | Instance data | first_test shop | SSH connect | wget latest | Releases - Pre | OffSec | Kali Linux | Kali Tools | Kali Docs | Kali Forums | Kali NetHunter | Exploit-DB | Google Hacking DB

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- Email us: ofuluejohn39@gmail.com

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Windows Taskbar: 1:48 AM