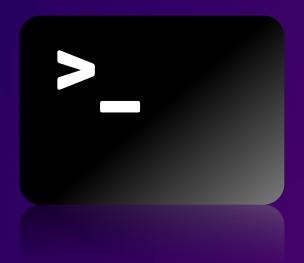


re:Start

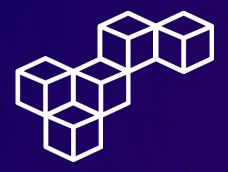
Introduction to an Amazon Linux AMI



WEEK 2







Overview

An Amazon Linux AMI (Amazon Machine Image) is a Linux-based operating system provided by Amazon Web Services (AWS) specifically designed for use on Amazon EC2 instances. It includes a variety of pre-installed software packages and configurations optimized for running applications and services on AWS infrastructure.

SSH (Secure Shell) is a protocol used to securely access and manage remote servers or instances over a network. It provides encrypted communication between the client (your computer) and the server (the remote instance), allowing you to execute commands, transfer files, and perform administrative tasks on the remote system.

Note: This lab was made using Windows Subsystem for Linux.

Topics covered

- Use SSH to access an Amazon Linux AMI
- Understand the purpose of the man command
- Demonstrate the search feature of the man pages
- Examine man page headers

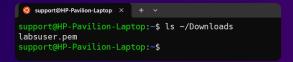




Use SSH to connect to an Amazon Linux EC2 instance

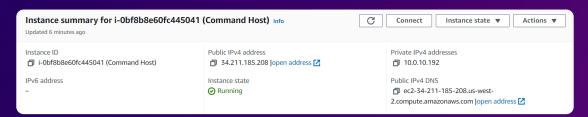
Step 1: Download the private key

Download the **private key file** labsuser.pem and save it in the Downloads directory.



Step 2: Copy the public IPv4 address

In the AWS Management Console, select the EC2 instance and make note of the **Public IPv4 address**.







Use SSH to connect to an Amazon Linux EC2 instance

Step 3: Change the permissions on the key

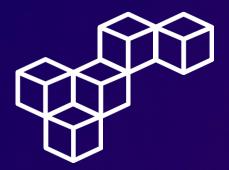
Change to the Downloads directory and modify the permissions on the key to be read-only (r-----). The file permissions are currently rw-r--r--.

support@HP-Pavilion-Laptop:~\$ cd ~/Downloads
support@HP-Pavilion-Laptop:~/Downloads\$ ls -l labsuser.pem
-rw-r--r-- 1 support support 1674 Apr 6 16:45 labsuser.pem
support@HP-Pavilion-Laptop:~/Downloads\$ chmod 400 labsuser.pem
support@HP-Pavilion-Laptop:~/Downloads\$ ls -l labsuser.pem
-r----- 1 support support 1674 Apr 6 16:45 labsuser.pem
support@HP-Pavilion-Laptop:~/Downloads\$

Step 4: Connect to the instance using SSH

Establish a connection to the EC2 instance using the ssh command, the key and the instance's public IPv4 address.





Explore the Linux man pages

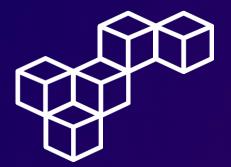
Open the manual pages for the man program using the man man command.

[ec2-user@ip-10-0-10-192 ~]\$ man man
[ec2-user@ip-10-0-10-192 ~]\$

Identify the **major sections of the man pages**, look for the headers in the terminal.

| MAN(1) | Manual pager utils | MAN(1) |
|--------|--|--------------------------|
| NAME | man - an interface to the on-line reference manuals | |
| | | |
| SYNOPS | SIS man [-C file] [-d] [-D] [warnings[=warnings]] [-R encoding] [-L locale] [-m system[,]] [-M path] [-S list] [-e [-i -I] [regex wildcard] [names-only] [-a] [-u] [no-subpages] [-P pager] [-r prompt] [-7] [-E encoding] [no-hy [no-justification] [-p string] [-t] [-T[device]] [-H[browser]] [-X[dpi]] [-Z] [[section] page] | extension] phenation] |
| | | |
| DESCRI | IPTION man is the system's manual pager. Each page argument given to man is normally the name of a program, utility or function. page associated with each of these arguments is then found and displayed. A <u>section</u> , if provided, will direct man to lo that <u>section</u> of the manual. The default action is to search in all of the available <u>sections</u> , following a pre-defined orde show only the first page found, even if page exists in several <u>sections</u> . | ok only in |
| | | |
| OVERVI | (EW Many options are available to man in order to give as much flexibility as possible to the user. Changes can be made to t path, section order, output processor, and other behaviours and operations detailed below. | he search |
| | | |
| EXAMPL | man ls Display the manual page for the <u>item</u> (program) <u>ls</u> . | |
| | | |
| FILES | /etc/man_db.conf man-db configuration file. | |
| | | |
| OPTION | IS Non argument options that are duplicated either on the command line, in \$MANOPT, or both, are not harmful. For options th an argument, each duplication will override the previous argument value. | at require |
| | | |
| SEE AL | .50 apropos(1), groff(1), less(1), manpath(1), nroff(1), troff(1), whatis(1), zsoelim(1), setlocale(3), manpath(5), ascii(7), man(7), catman(8), mandb(8), the man-db package manual, FSSTND | latin1(7), |





Explore the Linux man pages

Take note of the **DESCRIPTION** header, particularly the section numbers.

DESCRIPTION

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The table below shows the <u>section</u> numbers of the manual followed by the types of pages they contain.

- Executable programs or shell commands
 System calls (functions provided by the kernel)
 Library calls (functions within program libraries)
 Special files (usually found in /dev)
 File formats and conventions eg /etc/passwd

- 7 Miscellaneous (including macro packages and conventions), e.g. man(7), groff(7)
 8 System administration commands (usually only for root)
 9 Kernel routines [Non standard]

Conventional section names include NAME, SYNOPSIS, CONFIGURATION, DESCRIPTION, OPTIONS, EXIT STATUS, RETURN VALUE, ERRORS, ENVIRON-MENT, FILES, VERSIONS, CONFORMING TO, NOTES, BUGS, EXAMPLE, AUTHORS, and SEE ALSO.

The following conventions apply to the SYNOPSIS section and can be used as a guide in other sections.

A manual page consists of several sections.

bold text type exactly as shown.

italic text replace with appropriate argument.

[-abc] any or all arguments within [] are optional.

-a|-b options delimited by | cannot be used together.

argument :: argument is repeatable.

[expression] :: entire expression within [] is repeatable. bold text italic text [-abc] -a|-b

Close the SSH connection using the exit command.

[ec2-user@ip-10-0-10-192 ~]\$ exit logout Connection to 34.211.185.208 closed. support@HP-Pavilion-Laptop:~/Downloads\$





Using SSH to connect to an EC2 Instance

To establish a secure connection to an EC2 Instance (the remote server) using the SSH protocol, we need to use a key pair where the public key is stored on AWS and the private key should be on our computer (the local client). Then, we use the ssh command and specify the private key file and the public IPv4 address of the remote server.

Linux man pages

Linux man pages are reference documents that provide detailed information about commands, programs, and functions available in the Linux operating system. These pages contain syntax descriptions, command options, usage examples, and technical details relevant to each specific command or function. You can access a man page by using the man command.



aws re/start



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