



Configure Amazon Lightsail

October 2022



What is Amazon Lightsail?

“Amazon Lightsail is a virtual private server (VPS) provider and is the easiest way to get started with AWS for developers, small businesses, students, and other users who need a solution to build and host their applications on cloud.”

You can interact with Amazon Lightsail through the console, command line interface (CLI), or API to create and manage instances.

Overview

- Walk through the configuration of the lab in Amazon Lightsail
- Provide an Example Configuration
- Recommendations on configuring
 - SSH Keys
 - Firewall Policies

Amazon Lightsail Console (LC)

The screenshot shows the Amazon Lightsail console interface. At the top, there's a navigation bar with the Amazon Lightsail logo, a 'Home' link, a search bar, and links for 'Docs', 'Account', 'AWS', and 'Billing'. Below the navigation bar, a greeting 'Good morning!' is displayed. A search bar with the placeholder 'Filter by name, location, tag, or type' is present. The main content area has tabs for 'Instances', 'Containers', 'Databases', 'Networking', 'Storage', and 'Snapshots'. The 'Instances' tab is selected, showing a list of four running instances. A 'Create Instance' button is located at the top right of the instance list. The instances are:

Instance Name	OS/Icon	Specs	Status	Public IP	Location
purpleVPN	Ubuntu (Red)	1 GB RAM, 1 vCPU, 40 GB SSD	Running	35.91.253.148	Oregon, Zone A
purpleMbr	Windows (Blue)	2 GB RAM, 1 vCPU, 60 GB SSD	Running	35.90.89.40	Oregon, Zone A
purpleDC	Windows (Blue)	2 GB RAM, 1 vCPU, 60 GB SSD	Running	35.87.103.125	Oregon, Zone A
purpleLin	Ubuntu (Red)	1 GB RAM, 1 vCPU, 40 GB SSD	Running	34.213.183.59	Oregon, Zone A

Lab Setup

2 Linux Instances

2 Win Instances

OpenVPN connection
*(Security Concern)

Linux Web Server

WinDC and Win
Member Server

LC - Create an Instance (Location - Blueprints)

The screenshot shows the Amazon Lightsail console interface. At the top, there's a navigation bar with the Amazon Lightsail logo, a gear icon, a 'Home' link, a 'Docs' link, a search bar, and an 'Account' dropdown. The main content area is titled 'Instance location' with a help icon. It shows 'You are creating this instance in **Oregon, Zone A** (us-west-2a)' with a US flag icon and a link to 'Change AWS Region and Availability Zone'. Below this is the 'Pick your instance image' section with a help icon. It has a 'Select a platform' heading and two options: 'Linux/Unix' (28 blueprints) and 'Microsoft Windows' (4 blueprints). The 'Linux/Unix' option is selected. Under 'Select a blueprint', there are two tabs: 'Apps + OS' and 'OS Only'. The 'Apps + OS' tab is active, showing four blueprint options: 'WordPress 5.9.3-8' (selected), 'WordPress Multisite 5.9.3-8', 'LAMP (PHP 7) 7.4.29-0', and 'Node.js 16.15.0-0'.

Amazon Lightsail

Home

Docs Search Account

Instance location ?

You are creating this instance in **Oregon, Zone A** (us-west-2a)

[Change AWS Region and Availability Zone](#)

Pick your instance image ?

Select a platform

Linux/Unix
28 blueprints

Microsoft Windows
4 blueprints

Select a blueprint

Apps + OS OS Only

WordPress
5.9.3-8

WordPress Multisite
5.9.3-8

LAMP (PHP 7)
7.4.29-0

Node.js
16.15.0-0

When creating an instance you can select the location

You can select a platform and then a blueprint or a base OS installation

For the purposes of the lab I used the OS Only blueprints for Windows and Linux

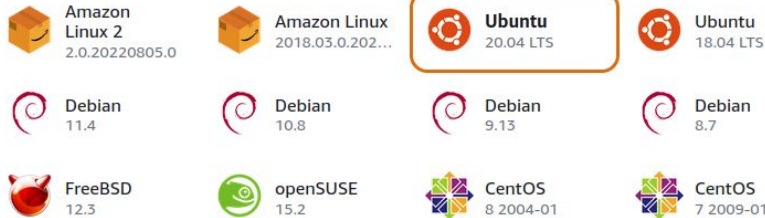
LC - Create an Instance (OS Only)

Pick your instance image [?](#)

Select a platform



Select a blueprint



For the 2 lab server I built them with Linux as the platform

Ubuntu 20.04 as the OS

Great way to test other operating systems in your lab

LC - Create an Instance (Linux SSH and Plan)

You will connect to your instance using the **BSidesIF** SSH key.

[Change SSH key pair](#)

Automatic snapshots create a backup image of your instance and attached disks on a daily schedule.

☐ Enable Automatic Snapshots

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 3 months free!		First 3 months free!		First 3 months free!						
\$3.5		\$5		\$10		\$20		\$40		>
USD		USD		USD		USD		USD		
\$3.50 USD		\$5 USD		\$10 USD		\$20 USD		\$40 USD		Price per month
512 MB		1 GB		2 GB		4 GB		8 GB		Memory
1 vCPU		1 vCPU		1 vCPU		2 vCPUs		2 vCPUs		Processing
20 GB SSD		40 GB SSD		60 GB SSD		80 GB SSD		160 GB SSD		Storage
1 TB		2 TB		3 TB		4 TB		5 TB		Transfer

SSH Key Pair (Default vs. Created)

Automatic Snapshots (\$)

Instance Plan (Read about the 3 months free)

LC - Create an Instance (Win)

Pick your instance image [?](#)

Select a platform



Linux/Unix
28 blueprints



Microsoft
Windows
4 blueprints

Windows-based instance prices reflect additional licensing fees.

Select a blueprint

Apps + OS

OS Only



Windows
Server 2019
2022.09.14



Windows
Server 2016
2022.09.14



Windows
Server 2012
R2
2022.09.14

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 3 months free!	First 3 months free!	First 3 months free!	
\$8	\$12	\$20	\$40
USD	USD	USD	USD
\$8 USD	\$12 USD	\$20 USD	\$40 USD
512 MB	1 GB	2 GB	4 GB
1 vCPU	1 vCPU	1 vCPU	2 vCPUs
30 GB SSD	40 GB SSD	60 GB SSD	80 GB SSD
1 TB	2 TB	3 TB	4 TB

For a limited time, new Lightsail customers can try the selected plan for free for the first 3 months. [Learn more about the free trial in Lightsail.](#)

Identify your instance

Your Lightsail resources must have unique names.

Windows_Server_2016-1

×

1

Running Windows
Server 2016

Observe the 3
months free for a
limited time.

You can name your
instance

LC - Configure Instance



purpleVPN

1 GB RAM, 1 vCPU, 40 GB SSD

Ubuntu

Oregon, Zone A (us-west-2a)

Stop

Reboot

Status: **Running**

Public IP: **35.91.253.148**

Private IP: 172.26.11.107

Public IPv6: **Not enabled**

[Learn more about IPv6](#)

Connect

Storage

Metrics

Networking

Snapshots

Tags

History

Delete

After the instance is built you can see the name, location and specs

Public IP

Private IP (They can talk internally - not continuous)

IPv6 enabled by Default

LC - Configure Instance - Connecting

Connect to your instance [?](#)

You can connect using your browser, or your own compatible SSH client.

Use your browser

Connect using our browser-based SSH client

Connect using SSH

Use your own SSH client

Connect using an SSH client [?](#)

CONNECT TO

35.91.253.148

USER NAME

ubuntu

SSH KEY

This Instance was created with the personal SSH key named **BSidesIF**.

Manage your SSH keys from your [Account](#) page.

Using the LC you can connect through your browser

Use an SSH Client, I like MobaXterm (Ansible)

Unable to change the default username from the web UI

View the SSH key that was setup

LC - Configure Networking (Linux)

IPv4 Firewall

Create rules to open ports to the internet, or to a specific IPv4 address or range.

[Learn more about firewall rules](#) 

 Add rule

Application	Protocol	Port or range / Code	Restricted to		
SSH	TCP	22	166.70.80.123 Lightsail browser SSH/RDP 		

IPv6 networking

Enable Internet Protocol version 6 to have an IPv6 address assigned to your resource.

[Learn more about IPv6](#) 



IPv6 networking is disabled

This resource can communicate using only the IPv4 protocol.

IPv4 Firewall applies to Public IP Address

Would recommend adding rules based on the IP Address you are coming from

You can restrict to IP Address range and add multiple

I do not use IPv6 but being a lab you could learn how to connect with it