

How to Create an Environment for Web Production

Projects inside DAPA

DAPA offer two different solutions for developing projects and that requires a production environment (Web Server).

1. Instance in Amazon Web Services.
2. Instance in CIAT IT department.
3. Web service through WPengine.

This document will let you know the process of acquiring a server on the cloud through Amazon Web Services (AWS). Please read carefully this document and answer the questions at the end in order to get an instance.

To select the type of instance you will need, please follow up these steps:

1. Identify the technical requirements for the application to be developed
2. Review the following table and identify what type of instance you will need.
3. Define if you are going to hire the server on-demand (you will pay at the end of the month only what you used), at 1 year or 3 years.
Note that 3 years instances may represent up to 65% savings compared to the value that you would pay on-demand.

Creation Time Production Environment

Once you send the Project requirements, the creation and implementation time is 2 working days. The leader of the project will be given a **user/password** with their respective privileges for each request.

Budget

The cost of each instance could vary depending on each project. Below you will find estimated values for each type of instance. There are one table for instances on demand, one for 1-year reserved instances and another for 3-year reserved instances.

Support

At administrative level, includes support in the creation, implementation and development of the instance; AMI installation (Amazon Machine Image) that contains the operative system and some already pre-configured applications.

Technical Specifications on AWS Instances

These are the options we have on Amazon:

Performance Measurements							
Instance size	Instance type	Processor	CPUs virtuals	Memory (GB)	Storage (GB)	Network Performance	Operative System
Small	t2.small	2.9 GHz Intel Xeon - 32/64 bits	1	2	-	Low to Moderate	Linux/Windows
Medium	t2.medium	2.9 GHz Intel Xeon - 32/64 bits	2	4	-	Low to Moderate	Linux/Windows
Large	t2.large	2.9 GHz Intel Xeon - 32/64 bits	2	8	-	Low to Moderate	Linux/Windows

Prices

Operative System:	Instance Name	On-demand hourly cost	On demand (no contract)	1 year All Upfront Reserved	3 years All Upfront Reserved
			Monthly payment	One-time payment	One-time payment
Linux	t2.small	\$ 0.026	\$ 19.04	\$ 151.0	\$ 303.0
Linux	t2.medium	\$ 0.052	\$ 38.07	\$ 302.0	\$ 607.0
Linux	t2.large	\$ 0.104	\$ 76.13	\$ 604.0	\$ 1214.0
Windows	t2.small	\$ 0.026	\$ 26.36	\$ 232.0	\$ 470.0
Windows	t2.medium	\$ 0.052	\$ 52.71	\$ 859.0	\$ 607.0
Windows	t2.large	\$ 0.104	\$ 98.09	\$ 782.0	\$ 1718.0

Storage and Snapshot (backup) monthly cost are not included in the table, they depends on the type of instance and the billing option. The value is between USD \$2 and USD \$5.

Technical Specifications on Instances from CIAT IT unit.

Please contact IT unit at CIAT-Redes redes@cgiar.org.

Technical Specifications on WPengine.

Payment: USD\$ 99 per month.

Requirements

In order to justify the instance acquirement on AWS or CIAT we need you to answer the following questions please:

1. What is your target audience?
2. Who are the main users of the application?
3. Who are and where are located the administrators of the application?
4. Document that describes the application.
5. Type of instance to hire?
6. Contracting period of time - Billing option (on demand, 1 year all upfront reserved and 3 year all upfront reserved)
7. Cost Center - AEC

These responses will be sent to CIAT IT department in order to validate and obtain an authorization.

Please send your answers to the following e-mail: dapa-it@cgiar.org