Assignment - 1

CSA - 4307

Internet Programming

192311055 Tacinth Priscilly J 1) operating systems: Linux CLAMP) vs windows (WAMP)

Linux (LAMP)
Advantages
*Open source, free & vost effictive
*Highly Stable

*Secure

Which has been Preferred in cloud Environments (AWS, GIP, Azure)

Mative support for command-line took

Limitations

*Requires some gamiliarity with terminal Connands and Mux fle system.

*Steeper Learning curve for non-technical news.

Windows (WAMP)

*Better Integration.

**Easter jour clients & teams * which has been used in windows infastructure

Britation * Requênes Lincering 3) * Lew optimal * high scolable system * hels efficient Ideal for doud deploy 2) mage scenarias and stack Recommendation Project-B Project A. Educational. Cms E-commerce platform Recommended stack: LAMP. Recommeded & WAMP Stack Why? Why ? open source stack reduces compatible with wind Paperastructure hosting Scalable infrastructure. Strong Community & Easter for it staff security. Ideal for cloud deployment and auto scaling. Seamlen Integratio Active disectory

3) Common Applications LINUX VS Windows

LAMP- E-commerce, APrs, blogs, formus Custom Apps wordpress (on Linux)

WAMP-Internal dash boards, School portals modele, Custon Intranet tools.

H) Critical yactor when choosing a stack LAMP WAMP

High = Socurity -> Low

Excellent < Pagomanu -> Moderate.

Limited <= Cost-free Requires -> Easily Scalable.

Extensive < community > moderate
Support Support

Conclusion

Project A:- (F-commerce) LAMP-cost affective, Secure, scalable for Granth

Project: B:- (cms for Institution) wamp Best fit
for Windows - based Environment & Integrations

3) LAMP Stack (Pinux, Apadre, mysal, PHP)

Platform: LINUX

* Linux:- The operating system that provides
the environment for hosting and running web.

application

* Apacho: - The web sorver that handles HTTP requests from un

* Mysac: The Relational database management system used to stone data

XPtIP: The sever stde scripting language

Platform: windons (Apache, mysal, PHP)

MAMP mes the same components.
CApache, mysel, PHP) as LAMP but it
nous on windows os instead for linux

How to configure a LAMP stack on ubuntu

- 1) Update The package Pndex sudo apt update
 - 2) Install Apache
 - 3) Install mysac
 - 4) seame mgg/ Installational Coptional)
 - 5) Install PHP.
 - 6) Restart Apache to apply changes
 - 7) TEST PHP Coptional)
 - echo "Z?pnp Phpinfo();?>" [sudu tee/ var [www [htmc]info. Php

Then visit http:/// localHast-lingo.PHPin

How the components communicate wer Request

(Eg. NNW. Example.com)

- => Apache necesses the Request and Polentifies The nequestde Hespurce
- => PHP scripts are executed by the PHP Engine.
 If the Requests is for Php. file
- => PHP communicates with mysal to stone data

(Eg: Login Injo, Product data)

- => My sal database sends the sesults back to PtIP
- => PHP Generates The HTML content and Send P+ back through Apache to the User's browser