MAIL SERVICES: PHP

Author: Arpit Gandhi

--***--

ABSTRACT: Mail Server Communication is a server-side scripting project developed by Php language using IIMAP and POP3 protocols. In the research report, we present a communication server called Mail Communication Server, which is written in PHP and is one of the main multi-page scripting languages. The messaging server provides two people from the same organization or another organization with a messaging identifier to communicate securely. The mail server has all the features that are required by a mail server such as Gmail. The research paper contains a detailed analysis of the project and the different components of the projects.

INTRODUCTION

The web page contains some of the most important data in the world. From credit card numbers to medical records, cybersecurity is today one of the main areas of the diffusion test. To maximize the quality of a web penetration test, certain script functions are almost always required. [1] Specifies whether data should intercept an XSS vulnerability or add functionality to a website. The script is a critical element. Toolbox for a penetration tester. PHP is perfect for new programmers and intruder testers. [2] The cross-section between websites to learn PHP. The research paper focuses on the basics of PHP for penetration testers. Next, we analyze the benefits of PHP in two ways: including remote files and data collection. [3]. The use of different kinds of websites for using mail serves is shown in figure1.
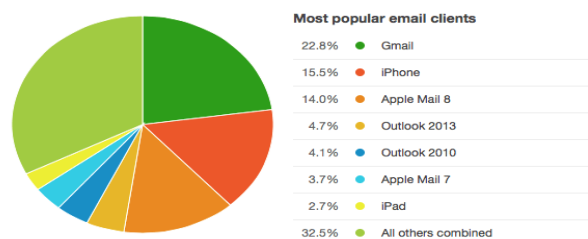

Figure1: Percentage of different email clients

LITERATURE REVIEW

Several scripts can interact to execute certain task functions. For example, a connection to a WordPress platform may contain a collection of scripts[4]. However, our system has focused on discovering if the detection system is a more independent platform if it is a unique scenario that is maliciously independent of the other scripts with which it can interact. Knowledge of the platform is not required to add relevant PHP scripts in a "big phase". "[5] PHP means PHP: hypertext processor and is an open-source script language that was developed primarily for web development. [6]PHP facilitates form analysis and data manipulation, one of the forms-based applications. PHP is also used as a framework for many Web 2.0 applications because it easily manages databases and responds through shared databases. Web 2.0 protocols such as XML (Extensible Markup Language) and JavaScript object notation. [7]

PHP BASICS

To run our PHP scripts, we must ensure that our web server is running. We go to the web directory / var / www / html. This directory is the root website of the Apache server[8]. Php is among top 5 programming languages used for web development[9] and the importance of the languages can be seen in the graph(as shown in figure2)
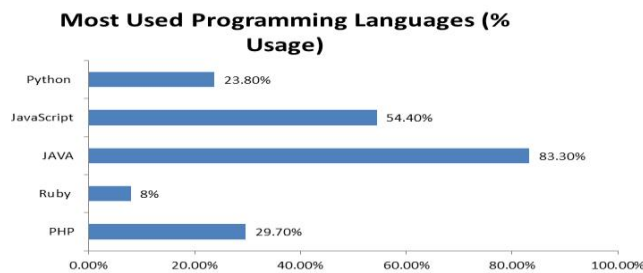
Figure2: Use of different programming languages in websites

COMPONENTS INVOLVED IN THE PROJECT

We now have some basic concepts involved during the development of PHP pages. Now we look to the components of the project along with the screenshots of the web pages[10]. Also, the tables involved in the database of the project. [11]

SIGN UP PAGE

Sign up page (as shown in figure 3)on which the user can log in with his respective Gmail account provided that the email id and password entered by them is correct through SMTP service if login details are wrong SMTP shows up the 404 error page is built with PHP language[12]
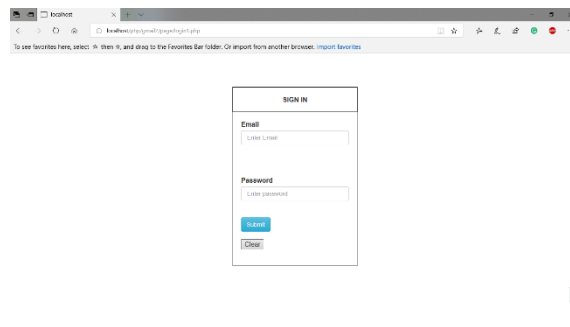

Figure3: Sign up page

INBOX PAGE

The inbox page is required to view the mails. Inbox page helps the user to get acknowledged about all the mail received by the user[13], in a framework that is user-friendly and easy to use (as shown in figure 4) which is also built with PHP language[14]. The user may use the sync button to load the recent mail on the inbox page. Figure4 also contains SQL database tables for the inbox page
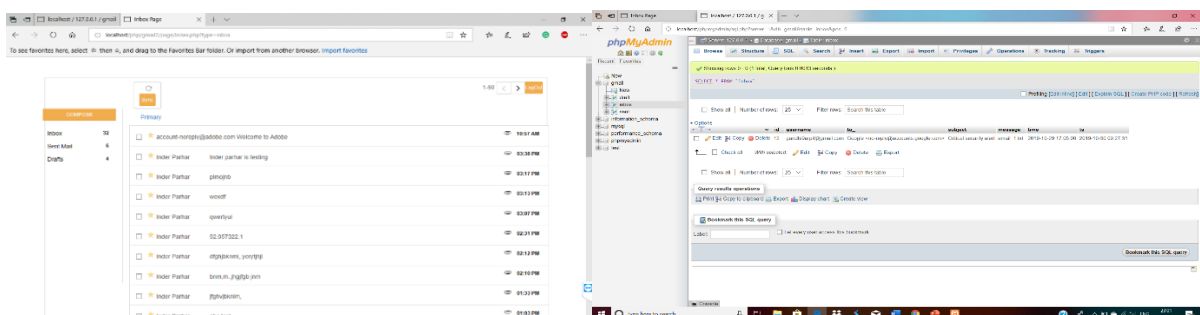

Figure4: Inbox page and database table of the inbox page

SENT MAIL PAGE

- The sent page enables the user to view all of the emails sent by the user after the user login[15]. All the mails that are being retrieved using IMAP and pop3 protocols search function using the Gmail server connection[16].

- Although the mail is sent from our mail services project if the logged-in user wants to view the sent mails the user needs to sync the sent mails (as shown in figure5). The page is built with PHP language[17]

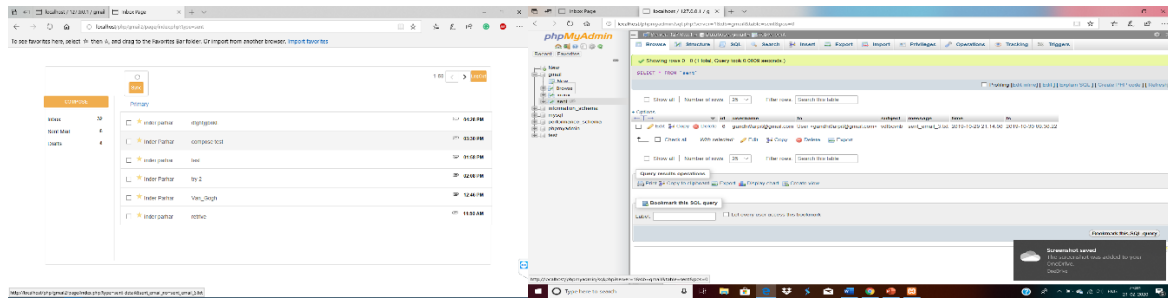- The screenshot also includes SQL database table of the sent page.

Figure5: Sent mail page and database table for sent mail page

DRAFT PAGE

- In the draft page, a user can view the emails saved by the logged-in user, in a framework which is designed by the PHP language[19]. Figure6 shows all the emails saved by the user retrieved by the IMAP and pop3 protocols from the search function of the Gmail server. The page is built with PHP language[20].

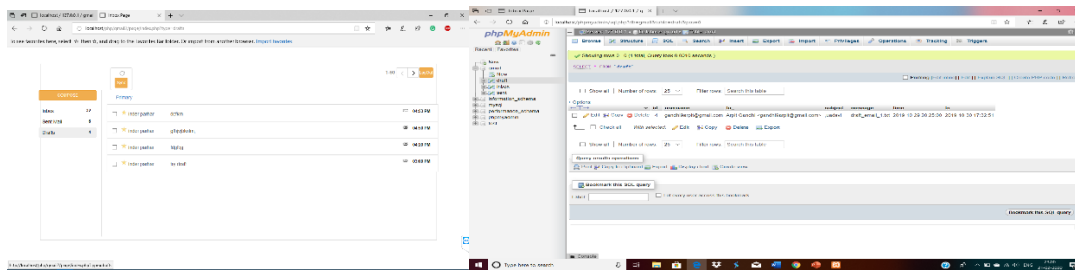- The screenshot also contains SQL database tables of the draft page.

Figure6: Draft mail page and database table for draft mail page

COMPOSE MAIL PAGE

The composed page is developed so that the logged-in user can send mails(as shown in the figure7). The pages are developed in the fashion that it uses SMTP protocol.[21]
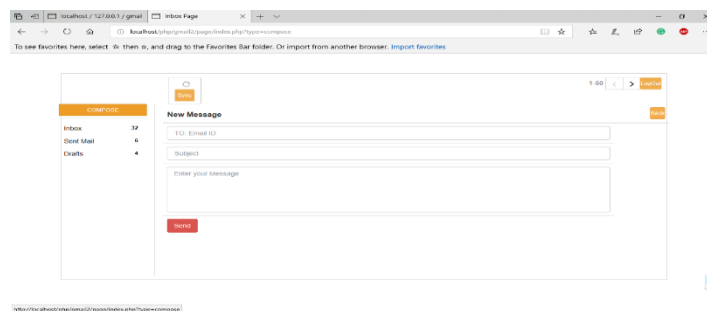

Figure7: Compose mail page

LOG OUT PAGE

The section used to destroy the ongoing session, which helps the person to log out from the local mail server and we destroy the session the email id and password also get erased from the memory, this ensures that there is no insecure access to the user account, hence user account cannot be accessed without password anymore. This increases the security of the user account[22].

CONCLUSION

More than 1 hundred years of important inventions after the beginning of the industrial era has led to an improvement of the standard of living of the ordinary people across various parts of the world with the absence of unemployment trend rising steeply. The project is built to achieve the demand of the mail server. The change in the use of different mail servers is shown in the below figure8.
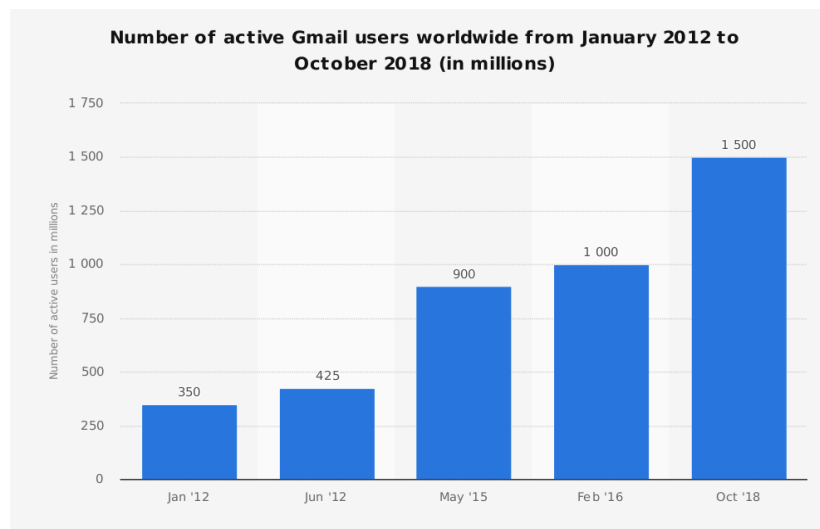

Figure8: Number of users in Gmail

REFERENCES

[1] Yepes, M., Roussel, B.D., Ali, C., Vivien, D., 2009. Tissue-type plasminogen activator in the ischemic brain: more than a thrombolytic. Trends Neurosci. 32, 48–55.

[2] Kleindorfer, D., Lindsell, C.J., Brass, L., Koroshetz, W., Broderick, J.P., 2008. National US estimates of recombinant tissue plasminogen activator use: ICD-9 codes substantially underestimate. Stroke 39, 924–928.

[3] Tran M, Armitage G. Evaluating the use of spam-triggered TCP/IP rate control to protect SMTP servers. In: Proceedings of the Australian telecommunications networks & applications conference (ATNAC), Sydney, Australia, December 2004. p. 329–35

[4] Levy E. The making of a spam zombie army: dissecting the Sobig worms. IEEE Secur Privacy Mag 2003;1(4):58–9. Markatos E. Speeding up TCP/IP: faster processors are not enough. In: Proceedings of the 21st IEEE international performance, computing, and communications conference (IPCCC 2002), Phoenix, AZ, USA, April 2002. p. 341–5.

[5] Hills, M. (2015, November). Variable feature usage patterns in PHP (T). In 2015 30th IEEE/ACM International Conference on Automated Software Engineering (ASE) (pp. 563-573). IEEE

[6] H. E. Van der Hoek and J. Hage, "Object-sensitive Type Analysis of PHP," in Proceedings of the 2015 Workshop on Partial Evaluation and Program Manipulation, New York, NY, USA, 2015, pp. 9–20.

[7] Fraenkel, P., Paish, O., Bokalders, V., Harvey, A., Brown, A., & Edwards, R. (1991). Micro-hydro Power. Intermediate Technology.

[8] Nejad, M. F., Radzi, M. A. M., Ab Kadir, M. Z. A., & Hizam, H. (2012, December). Hybrid renewable energy systems in remote areas of equatorial countries. In 2012 IEEE Student Conference on Research and Development (SCOReD) (pp. 11-16). IEEE.

[9] Shafii, M. B., Faghri, A., & Zhang, Y. (2001). Thermal modeling of unlooped and looped pulsating heat pipes. J. Heat Transfer, 123(6), 1159-1172.

[10] Moriyama, K., & Inoue, A. (1996). Thickness of the liquid film formed by a growing bubble in a narrow gap between two horizontal plates.

[11] Farrugia, L. J. (1997). ORTEP-3 for Windows-a version of ORTEP-III with a Graphical User Interface (GUI). Journal of Applied Crystallography, 30(5), 565-565.

[12] Lehman, M. M. (1980). Programs, life cycles, and laws of software evolution. Proceedings of the IEEE, 68(9), [13] Madhavji, N. H., Fernandez-Ramil, J., & Perry, D. (Eds.). (2006). Software evolution and feedback: Theory and practice. John Wiley & Sons.   [14] Canseco-González, D., Gómez-Benítez, V., Hernández-Ortega, S., Toscano, R. A., & Morales-Morales, D. (2003). Transmetallation reactions of [Sn (R) 2 (Ph2PC6H4-2-S) 2] with metal complexes of the Group 10: Stereoselective synthesis of cis-[M (Ph2PC6H4-2-S) 2](M= Ni, Pd, Pt). Journal of organometallic chemistry, 679(1), 101-109.

[15] Tu, Q. (2000, October). Evolution in open source software: A case study. In Proceedings 2000 International Conference on Software Maintenance (pp. 131-142). IEEE.   [16] Kerur, N., Veettil, M. V., Sharma-Walia, N., Bottero, V., Sadagopan, S., Otageri, P., & Chandran, B. (2011). IFI16 acts as a nuclear pathogen sensor to induce the inflammasome in response to Kaposi Sarcoma-associated herpesvirus infection. Cell host & microbe, 9(5), 363-375.

[17] Kerur, N., Veettil, M. V., Sharma-Walia, N., Bottero, V., Sadagopan, S., Otageri, P., & Chandran, B. (2011). IFI16 acts as a nuclear pathogen sensor to induce the inflammasome in response to Kaposi Sarcoma-associated herpesvirus infection. Cell host & microbe, 9(5), 363-375.

[18] Morrone, S. R., Wang, T., Constantoulakis, L. M., Hooy, R. M., Delannoy, M. J., & Sohn, J. (2014). Cooperative assembly of IFI16 filaments on dsDNA provides insights into host defense strategy. Proceedings of the National Academy of Sciences, 111(1), E62-E71.

[19] Ginzberg, H., Shin, J., Ellis, L., Morrison, J., Ip, W., Dror, Y., ... & Rommens, J. M. (1999). Shwachman syndrome: phenotypic manifestations of sibling sets and isolated cases in a large patient cohort are similar. The Journal of pediatrics, 135(1), 81-88.

[20] Schmidt U, Fuessel S, Koch R, Baretton GB, Lohse A, Tomasetti S, Unversucht S, Froehner M, Wirth MP, Meye A: Quantitative multigene expression profiling of primary prostate cancer. Prostate 2006, 66:1521–1534

[21] Businge, J., Serebrenik, A., & van den Brand, M. (2010, September). An empirical study of the evolution of Eclipse third-party plug-ins. In Proceedings of the Joint ERCIM Workshop on Software Evolution (EVOL) and International Workshop on Principles of Software Evolution (IWPSE) (pp. 63-72). ACM.

[22] Xie, G., Chen, J., & Neamtiu, I. (2009, September). Towards a better understanding of software evolution: An empirical study on open source software. In 2009 IEEE International Conference on Software Maintenance (pp. 51-60). IEEE.