

Personal Cloud Storage using Raspberry PI

Rakesh Suryawanshi, Ruchita Amancha, Suhaib Sambulkhani, Vaishali Shinde, Priti Vyavahare

Department of Computer Engineering

A C Patil College of Engineering, Kharghar, Navi Mumbai, India

Abstract: *Developing a Raspberry Pi personal cloud server that can serve as your very own personal cloud storage is the goal of the project "Personal Cloud Using Raspberry Pi." Moving your data to private cloud storage is a preferable solution because privacy protection is a major concern today. The Raspberry Pi 3 model B module that houses the cloud server is configured. The server is linked to the internet by the router. For greater data storage, the server offers an optional USB hard disc. The Raspberry Pi server's wireless network card or adapter is used to link it to Personal Cloud, an open-source cloud computing platform. The Raspberry Pi can be configured remotely from any device, such as a smartphone, using a local tunnel. Numerous services, including SSH, HTTP, and VNC, are configured on and managed by the local tunnel. Access to the Personal Cloud account is restricted to the admin. Through the local tunnel, an administrator can provide users a variety of services. You can store your data for free on our project as needed. With tight system control, this project provides you the freedom to use space efficiently.*

Keywords: Raspberry Pi, Personal Cloud, Cloud Computing, Data Storage

REFERENCES

- [1]. B. Varghese and R. Buyya, "Next generation cloud computing: New trends and research directions", Future Generation Computer Systems, vol. 79, pp. 849-861, 2018.
- [2]. Z. Mahmood, Cloud Computing. Cham: Springer International Publishing, 2014.
- [3]. H. Fadhil, "The Perception of Information Security Threats Surrounding the Cloud Computing Environment." International Journal of Computing and Digital Systems 7, no. 06 (2018): 375-380.
- [4]. Arjun U, Vinay S, "A short review on data security and privacy issues in cloud computing", Current Trends in Advanced Computing (ICCTAC) IEEE International Conference on, pp. 1-5, 2016.
- [5]. J. González-Martínez, M. Bote-Lorenzo, E. Gómez-Sánchez, and R. Cano-Parra, "Cloud computing and education: A state-of-the-art survey", Computers & Education, vol. 80, pp. 132-151, 2015.
- [6]. H. Fadhil, "Cloud Precept: Storage, Backup, and Synchronization", CSES Interdisciplinary Transactions on Cloud Computing, IoT, and Big Data (IITCIB), vol. 2, no. 1, pp. 1-3, 2018.
- [7]. C. Stergiou, K. Psannis, B. Kim and B. Gupta, "Secure integration of IoT and Cloud Computing", Future Generation Computer Systems, vol. 78, pp. 964-975, 2018.
- [8]. D. Chou, "Cloud computing: A value creation model", Computer Standards & Interfaces, vol. 38, pp. 72-77, 2015.
- [9]. M. Rahimi, J. Ren, C. Liu, A. Vasilakos and N. Venkatasubramanian, "Mobile Cloud Computing: A Survey, State of Art and Future Directions", Mobile Networks and Applications, vol. 19, no. 2, pp. 133-143, 2013.
- [10]. W. Hajji and F. Tso, "Understanding the Performance of Low Power Raspberry Pi Cloud for Big Data", Electronics, vol. 5, no. 4, p. 29, 2016.
- [11]. D. Shah and V. haradi, "IoT Based Biometrics Implementation on Raspberry Pi", Procedia Computer Science, vol. 79, pp. 328-336, 2016.
- [12]. S. Aisa, "Implementation Raspberry Pi Using Private Cloud For Accessing Personal Data", Jurnal Penelitian Pos dan informatika, vol. 6, no. 2, p. 137, 2016.
- [13]. W. Hajji and F. Tso, "Understanding the Performance of Low Power Raspberry Pi Cloud for Big Data", Electronics, vol. 5, no. 4, p. 29, 2016