



RESEARCH ARTICLE

Federated Network Security Administration Framework

Bhadreshsinh G. Gohil¹, Rishi K. Pathak², Axaykumar A. Patel³

¹PG-ITSNS Student, Department of Computer Engineering, Gujarat Technological University, Gujarat, India

bhadu.gohil@gmail.com

²Senior Technical Officer, C-DAC, Pune, India

riship@cdac.in

³PG-ITSNS Student, Department of Computer Engineering, Gujarat Technological University, Gujarat, India

axay.a.patel@gmail.com

Abstract— In today's world, Internet is now ubiquitous. Most of Applications are based on Internet. Web and Internet technologies are becoming critical to many enterprises, and their huge potential in facilitating communication, decision making, and better business processes makes security a major concern. The factor that most affects network security solutions is the change of computing model. Since a Web-based application typically spans multiple host machines, a solution must be user-centric instead of system-centric. System-centric solutions such as login and password become extremely cumbersome to manage in the Web model. To resolve these issues it is proposed to build a framework which will streamline the process and also delegate most of the activities to several of designated stakeholders from each group. The framework enable the users/groups to do most of the work related to public release of the Websites/web portals and other network based services on their own with the intervention from the systems administrators or network security experts coming in only towards the final steps. The framework will also support different roles. The framework requires extensive scripting in either bash or python on Linux platform to handle several of the backend tasks like implementing policy changes on the security device.

Key Terms: - Vulnerability scan, security framework, web hosting.

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