Running Head: Final NSM Projec	ject
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Final NSM Project

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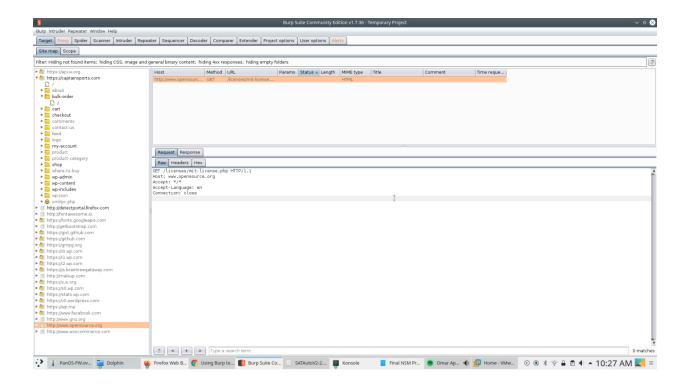
Author Note

This paper was prepared for NTS350, taught by Michael Vasquez, Title Final NSM Project.

Network Security Monitoring Tools

I wanted for my tool/s to go into more niche areas of network security monitoring tools that are by all technicality considered NSM tools but differ from some primarily regarded tools like those in security onion. I will be deploying both instances on my kubuntu distribution with my personal laptop. These tools do not perform the same actions in a sense as tools like Wireshark and other monitoring tools as fail2ban is a monitoring tool that detects openssh brute force attacks or whatever is defined by the user and burp suite is a tool that can be used to test web applications and specific traffic with the ability to edit that traffic.

Burp Suite is an awesome tool and can be used as a proxy to detect and change values for some web traffic. As you have seen in a previous assignment (Wireshark challenge) this tool can be used in conjunction and will result in similar data to Wireshark. Here is an example of a website that my father owns and gave me permission to view. I could find all sorts of interesting information from this website based on what I was receiving and sending like how post and get requests information how the website determines the ID for certain things etc. With Burp Suite you can also perform attacks with repeater and intruder and other tools included in Burp Suite. An example of this is if you pushed the login screen to a repeater or intruder and attempted a repeat login for different parameters (passwords and usernames). You can also find more information about the website thing your observing through target. You can view addons to the website directories etc. Here is an example picture.



The other tool I mentioned is a very useful NSM tool that should in my opinion be on every Linux distribution with SSH capabilities. This tool can be used to detect SSH connections and halter them based on parameters set by the user. Fail2ban also has logging capabilities and is useful if someone just wants to watch ssh connections and attempts along with the IP of the attempted intruder. Here is an example of my config and log file below that.

