**Lynis Reports**

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**Ubuntu**

Lynis runs a very large scan that scales over a variety of things. For our Ubuntu server, we ran a scan that looked for a variety of things. One of the biggest things we noticed from this scan was our *Boot and Services* being detected a vulnerable. Almost all services under this were unsafe. According to the official Ubuntu website, a way to get around this and protect oneself Is to make sure to the boot is secure. It can be done through most systems settings and Ubuntu offers assistance on how to do it. Adding this to our server will ensure the least number of vulnerabilities to our services when booting. Under our hardening tab, it's worth noting that the *Installed Malware scanner* was not found. The most obvious way to improve the overall hardening would be to install a reliable malware scanner on our server. A credible one found online would be *ClamAV* and hopefully will remove our risk here. Overall, we had no warnings. However, in total, we had 36 suggestions from a wide variety of categories on the Lynis scan. If one has the time, it would be wise to make all the suggestions it has to offer to reduce risk. Regardless, Lynis proved to be useful to monitor the server.

**Centos**

When Lynis was run on our centos server it detected a wide variety of things with results ranging from “safe” to results coming back “Unsafe” or even something like a “Warning”. For starters. One of the things checked was titled “Boots and Services.” If we look at what was detected amongst this category. We can see a large majority of the contents within it were found “unsafe”. Most of them come from the startup files. Lynis gives us a recommendation towards the end of this scan and lets us know that it is strongly recommended we harden these services. On the contrary, the scan labeled “Insecure services” came back as mostly positive. Including results that were “OK” and highlighted in green. Most things in this category labeled as “OK” were packages that were installed. One of the most crucial things detected was a “Warning” on our server. This warning was caused by the scan being unable to detect 2 responsive nameservers. One of them was our Ubuntu server as it had the ip address listed under this scan. A possible solution to this would be setting up the DNS to our Ubuntu server and retrying the scan to resolve it. Most sources recommended editing the DNS, *Cisofy* lists multiple reasons for this error and most link back to the DNS having some sort of issue. The link below shows multiple reasons for this error.

Cisofy- <https://cisofy.com/lynis/controls/nameservers/>

CalmAV install- <https://docs.clamav.net/manual/Installing.html>