



**Vulnerability Assessment/Management Solution using GFI
LanGuard tool in Air-Gap Environment & Penetration
Testing using Metasploit/CoreImpact tools.**

Our client is the center of Defense and for their Telecommunication and Cybersecurity Infrastructure they had the requirement to implement Vulnerability assessment & Management solutions for their central and remote locations across PAN India.

SCOPE

Solution required to be implemented at central location of CUSTOMER and seventy-one other remote locations across PAN India. We had to train CUSTOMER resources working on this product, so that they themselves can install/configure and conduct VA/VM exercises at their respective locations. We proposed GFI LanGuard as a solution, which has capability to conduct VA and download the required patches directly from OEM websites through internet and implement on the vulnerable systems highlighted in the GFI LanGuard Console during scan.



THE CHALLENGES

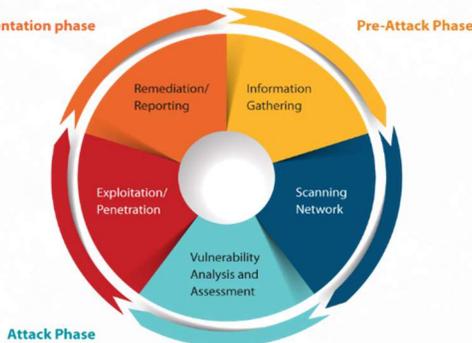
Customer had below challenges in doing vulnerability assessment/management of their infrastructure before implementing our solution:

- They were conducting vulnerability assessment using different tools/techniques but unable to fix up the gaps successfully, highlighted during VA.
- Reason of no proper vulnerability management was that customer did not have single vulnerability assessment and management solution and process in place.
- Their periodic VA keep showing the missing patches highlighted in previous scans.
- Due to unpatched systems their audit reports showing Non-Compliance and infrastructure remaining vulnerable to any cybersecurity threat.
- Central command wanted to see the vulnerability report of each location by sitting at HQ, New Delhi.
- To train around one hundred twenty people of CUSTOMER in such a manner so that they themselves install solution at their respective locations and conduct VA/VM exercise.
- To establish the process to provide the specific patches to CUSTOMER on periodic basis as per their infrastructure requirement.
- To fine tune the tool in such a way that it reduces the scan time and provide the desired results.
- To establish customer support centre to support client through telephone and e-mail support.

Analysis & Solution

We met with the key customer contact couple of times to understand their infrastructure and their specific requirements. We internally analyzed the requirement and prepared the project plan which included the detailed implementation plan. Solutions to the challenges mentioned as above were mitigated as below

- We installed and configured GFI LanGuard using NFR key at our location and downloaded the initial data of around six hundred GB, which includes patches/signatures at our location.
- We installed GFI LanGuard at CUSTOMER location. Patches and signatures were transferred to CUSTOMER in the form of storage device to which their team sanitized and transferred to their GFI LanGuard database.
- We also provide the detailed pre-requisites list, which included the ports/services required to run GFI LanGuard scan on which CUSTOMER team took the approval to keep them open from their senior staff.



- We fine-tuned GFI LanGuard tools to download specific patches as per CUSTOMER infrastructure and established the process to periodically provide the patches to their HQ through DVD's.
- There is a customer support help-line established on which CUSTOMER personal can call in and take help regarding VA/VM. We also provided one customer support e-mail address to them on which they can send their "error screenshots" if they find during installation and configuration and take help.
- There were around one hundred twenty people trained by us on complete VA/VM using GFI LanGuard tools. We provided training at New Delhi and other remote locations.

Conclusion

Solution is successfully deployed at CUSTOMER PAN India locations. Customer personnel are trained enough to execute vulnerability assessment/management using GFI LanGuard tool. There is customer support center also established having three levels of escalations.