Risk Assessment

This is a report of all the existing risks in your systems.

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| Risk Statement | The Linux Exploit Suggester identified several potential vulnerabilities (CVEs) in the system's kernel and sudo configuration. While the likelihood of successful exploitation depends on various factors, the presence of these vulnerabilities poses a significant risk. |
| Risk Likelihood | High |
| Risk Impact | Very High |
| Impact of Risk on system | Attackers could potentially exploit vulnerabilities in the system's kernel or sudo configuration to gain root privileges. |
| What to do | Update your system's kernel and sudo to the latest versions. Ensure that all security patches are applied. Contact your IT administrator or security professional for guidance on addressing these vulnerabilities. |

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| Risk Statement | The Linpeas output revealed the presence of network discovery and port scanning tools (fping, bash, nc, nmap). An attacker could use these tools to map the system's network, identify open ports, and potentially exploit vulnerabilities. |
| Risk Likelihood | Medium |
| Risk Impact | High |
| Impact of Risk on system | Attackers could use these tools to map the system's network, identify open ports, and potentially exploit vulnerabilities. |
| What to do | Disable or remove any network discovery and port scanning tools that are not required for legitimate purposes. Restrict network access to your system as much as possible. Keep your system's software up to date to patch any known vulnerabilities. Contact your IT administrator or security professional for assistance if needed. |

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| Risk Statement | The Linpeas output shows several writable configuration files, including systemd service files. An attacker could modify these files to compromise the system. |
| Risk Likelihood | High |
| Risk Impact | High |
| Impact of Risk on system | Attackers could modify these files to compromise the system. |
| What to do | Make the configuration files read-only for all users except root. Regularly back up your system's configuration files. Use a version control system to track changes to your configuration files. Contact your IT administrator or security professional for assistance if needed. |

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| Risk Statement | The Linpeas output identified several SUID/SGID binaries. These files have elevated privileges and could be exploited by attackers to gain root access if vulnerabilities exist within them. |
| Risk Likelihood | Medium |
| Risk Impact | Very High |
| Impact of Risk on system | An attacker could gain root access if vulnerabilities exist within them. |
| What to do | Review all SUID/SGID binaries on your system. Ensure that only necessary programs have these elevated privileges. Keep your system's software up to date to address any known vulnerabilities in these binaries. Contact your IT administrator or security professional for assistance if needed. |

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| Risk Statement | The Linpeas output indicates that several security protections (AppArmor, grsecurity, PaX, Execshield, SELinux, Seccomp) are not enabled or are disabled. This significantly weakens the system's defenses against attacks. |
| Risk Likelihood | High |
| Risk Impact | High |
| Impact of Risk on system | This significantly weakens the system's defenses against attacks. |
| What to do | Enable and configure appropriate security protections for your system. AppArmor, SELinux, and Seccomp are common choices that can help to restrict the capabilities of malicious programs. Contact your IT administrator or security professional for assistance with enabling and configuring these security features. |

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| Risk Statement | The Linpeas output shows several software packages that have known vulnerabilities or are outdated. These vulnerabilities could be exploited by attackers. |
| Risk Likelihood | Medium |
| Risk Impact | High |
| Impact of Risk on system | These vulnerabilities could be exploited by attackers. |
| What to do | Update your system's software packages to the latest versions. Regularly check for and install security updates. Consider using a vulnerability scanner to identify and address potential vulnerabilities in your software. Contact your IT administrator or security professional for assistance if needed. |

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| Risk Statement | The Linpeas output shows that several ports are open. These open ports could be exploited by attackers to gain unauthorized access to the system. |
| Risk Likelihood | Medium |
| Risk Impact | High |
| Impact of Risk on system | These open ports could be exploited by attackers to gain unauthorized access to the system. |
| What to do | Close any unnecessary ports on your system. Use a firewall to control network access to your system. Contact your IT administrator or security professional for assistance with configuring your firewall. |

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| Risk Statement | The Linpeas scan revealed the presence of sensitive data in various files, such as password hashes and API keys (if the '-r' parameter had been used). This data could be exploited by attackers. |
| Risk Likelihood | High |
| Risk Impact | High |
| Impact of Risk on system | This data could be exploited by attackers. |
| What to do | Securely store any sensitive data, such as password hashes and API keys. Use strong passwords and regularly change them. Use encryption to protect sensitive data. Contact your IT administrator or security professional for assistance if needed. |

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| Risk Statement | Multiple vulnerabilities were identified in the system, including the presence of writable files in critical directories (/etc/passwd), SUID/SGID binaries with potential for privilege escalation, and the availability of network discovery and port scanning tools. These vulnerabilities, combined with the lack of several security protections, create a high likelihood of successful exploitation. |
| Risk Likelihood | Very High |
| Risk Impact | Very High |
| Impact of Risk on system | These vulnerabilities, combined with the lack of several security protections, create a high likelihood of successful exploitation. |
| What to do | Because you are already root and you have identified several risks, you should immediately contact your IT administrator or security professional. They can help you secure your system and prevent unauthorized access. Do not attempt to fix these issues yourself unless you are an experienced IT professional. |

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| Risk Statement | The Linpeas output shows environment variables containing sensitive information such as SSH\_AGENT\_PID and XAUTHORITY. While not directly exploitable, this information could aid an attacker in further compromising the system. |
| Risk Likelihood | Medium |
| Risk Impact | Medium |
| Impact of Risk on system | This information could aid an attacker in further compromising the system. |
| What to do | Review the environment variables listed in the Linpeas output. If any contain sensitive information, remove or change them immediately. Consult your IT administrator for assistance if needed. |