Basics: System Auditing

This worksheet was made with the thought process of walking into an unknown linux environment. The purpose is to get you into a routine of finding out system information that is a necessity for an Linux administrator to know. This worksheet may be a lot, but there is a still a ton of information that needs to be known about a system.

Essentially, You should be asking yourself these questions everytime you enter an unknown Linux environment.

Basic Information:
What kind of Linux distribution am I running?
What kind of kernel am I using(Custom/Vanilla)?
What Kernel version do I have?
What are my Hardware Specifications(CPU, RAM, NIC)?
What is my Hostname?
What is my IP?
What kind of partition scheme do I have?
What kind of bootloader am I using?
What kind of init *integrated* am I using? (SysV, OpenRC,Systemd)

Information about Programs:
Which Kind of Graphical Desktop am I running?
Which command line text editors do I have Installed?
Which version(s) of Python are installed?
Which version(s) of Java are installed?
Which version(s) of GCC are installed?
Which version(s) of PHP are installed?
Which version(s) of Apache are installed?
What Kind of VNC's do I have installed?
What Kind of Database do I have installed?
What kind of package manager do I have?

Information about Services and networking:
What kind of services am I running?
What ports do I have open?
What kind of firewall rules do I have?
What kind of daemons do i have running?
What kind of cron jobs do i have running?
What are the contents of crontab
What kind of mirrors do I have?
User Administration

How many users are currently logged in?
How many users do I have? What are the name of these users?
How many of these users have a */home* directory?
How Many of these users have superuser rights(sudo)?
How Many Groups do I have?
How Many of these users are in the wheel Group?
How many groups have superuser rights?
Which users have a valid login and valid credentials?

Bonus:
Is SSH using protocol 1? Is it X11 forwarding?
Who was the last user that tried to log in?
Can root login remotely(SSH/Mysql)?
How are accounts being authenticated?
Am I running X11 or Wayland?
What is the difference between a cronjob and a daemon?
Are there any custom bash.rc files? Are there any custom aliases?
Am I using pulseaudio or ALSA?
What is in /var/log ?