Prompt Description.md 2025-07-23

Bash Prompt Summary

What is the Bash Prompt?

- The bash prompt is a line of text in the terminal indicating the system is ready for commands.
- It typically shows:
 - **Username** (who you are)
 - Hostname (computer's name)
 - Current working directory (folder you're in)
- The prompt ends with a symbol:
 - \$ for a regular user
 - # for the root (privileged user)

Example:

- username@hostname[~]\$
- root@hostname[/root]#
- The home directory is shown as a tilde ~.

PS1 Variable

- The **PS1** environment variable controls the appearance of the bash prompt.
- You can customize it to show various information:
 - Username
 - Hostname
 - Current directory (full path or just name)
 - o Date and time
 - o IP address
 - Status of last command (success/failure)
- This customization helps during tasks like penetration testing by providing useful context directly in the prompt.

Common PS1 Special Characters

Character	Description	Example Output
\u	Current username	user
\h	Hostname (short)	hostname
\H	Full hostname	hostname.domain.com
\w	Full path of current directory	/home/user/projects
\d	Date (e.g., Mon Feb 6)	Mon Feb 6

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Character	Description	Example Output
\D{format}	Date in custom format (e.g., %Y-%m-%d)	2025-07-23
\t	Current time (24-hour HH:MM:SS)	14:30:15
\T	Current time (12-hour HH:MM:SS)	02:30:15
\@	Current time (12-hour with AM/PM)	2:30 PM
\j	Number of jobs managed by shell	0
\n	Newline	(creates a new line)
\r	Carriage return	(resets cursor to line start)
\s	Name of the shell	bash

When PS1 Is Not Set

- The prompt may appear very simple:
 - \$ for normal users
 - # for root users
- This often happens when running shells remotely or via limited shells.

Additional Notes

- Bash prompt can be further enhanced with:
 - Colors
 - Fonts
 - Other visual settings
- Tools to create advanced prompts:
 - bash-prompt-generator
 - powerline

Summary

- The bash prompt gives important context in the terminal.
- Customizing the PS1 variable helps tailor the prompt to your needs.
- Including time, date, IP, or command status can improve workflow, especially in security testing.
- The home directory is represented as ~.
- Root user prompt ends with #, regular users with \$.