

Linux Command Scavenger Hunt #1

The Website Is Down

Team name: _____ Members: _____

THE SCENARIO + THE LAB

It is 2:14am. The status page for hexworth.com is red. You SSH into the production server — your in-class CTF box, opened via the W1 hub → Scavenger Hunt #1. The grid-monitor service is dark, and its dependency chain has collapsed. Diagnose, restart things in the right order, capture every flag. For each row below: write the command (or short flag combination) you actually ran in the lab to do that step. First team to finish all twelve correctly AND capture both lab flags wins.

RULES

Teams of 2 or 3. Use any course resources (man pages, the W1 lecture deck, the W1 topic decks). **First team correct: 100/100.** Other correct teams: **95/100.** Each wrong answer: **-2 points.** Both lab flags must be captured for full credit.

#	Description	Command
1	Open a persistent terminal session that will survive if your SSH connection drops. <i>Step 1 — set up</i>	
2	Show whether a systemd service (e.g. grid-monitor) is active, failed, or stopped, with a one-screen summary including recent log lines. <i>Step 2 — what state is the service in?</i>	
3	Show the last 30 log entries from a specific service only, with no pager. <i>Step 3 — why did it fail?</i>	
4	Watch a service's log live as you make changes (systemd-native, no tail -f). <i>useful during the fix</i>	
5	Bring a downed network interface back up (e.g. eth1). <i>Step 4 — fix the underlying cause</i>	
6	Show every network interface and its state (UP/DOWN, MAC). <i>diagnose the link layer</i>	
7	Show all listening TCP sockets, numeric ports, with the owning process name. <i>what is bound where?</i>	
8	Show the running processes for all users in full long-listing format. <i>context on what's running</i>	
9	Filter lines from a stream where they match a given pattern. <i>narrow log output</i>	
10	Start a stopped systemd service. <i>Step 5 — bring it back</i>	
11	Restart an already-running systemd service. <i>Step 6 — recover after a change</i>	
12	After editing a unit file, force systemd	

	to re-read all unit files (BEFORE you start/restart). <i>Step 7 — register your changes</i>	
13	After fixing the network, verify the cell can reach the outside world (canonical Linux check).	

LAB FLAGS

When you successfully restore all services in the lab, the engine auto-awards Flag 1. Recovering the truncated operations log auto-awards Flag 2. Copy each FLAG{...} value below.

#	Flag value (FLAG{...})
1	
2	

Score (instructor): Sheet ___/100 Flag 1 ☐ Flag 2 ☐ Final: ___/100