AI & PROMPT ENGINEERING · AI-03

IT & Network Prompts

Use this when: you want AI help with real IT work: reading output, explaining configs, writing scripts, tickets and runbooks.

BreakFixLearn

Works with Claude, ChatGPT, Gemini
Sheet v1.0 · Nov 2026

Scan to visit

6 templates to copy

Swap the <tags> for your masked data

1 Read the output — troubleshoot

```
You are a senior network engineer. Here is <output> from show ip interface brief. List the 3 most likely causes, the read-only check for each, and what each result means.
```

2 Explain a config — learn, review

```
Explain this config line by line for a CCNA student. Flag anything insecure and say why. <config>...</config>
```

3 Write a script — automate

```
Write a Python 3 Netmiko script that backs up running configs from <device list>. Read credentials from environment variables, add error handling and a dry-run mode, comment each step.
```

4 Ticket to user email — communicate

```
Rewrite this ticket note as an email to a non-technical user: what happened, what we fixed, what they need to do. Under 120 words, friendly. <note>
```

5 Notes to runbook — document

```
Turn these notes into an SOP with: purpose, prerequisites, numbered steps, how to verify, and rollback. Ask me about any gap. <notes>
```

6 Review a rule set — secure

```
Review this ACL for shadowed lines, rules that are too broad, and a missing final deny with log. Reply as a table: line, issue, fix. <acl>
```

Mask before you paste

Secrets	`show run | exclude secret|password`
IP addresses	Swap for 192.0.2.x, 198.51.100.x
Names	Use `user1`, `example.com`
Keys, tokens	Delete them, every time

Make the answer checkable

Commands	"Put every command in a code block"
Read-only first	"Only show commands until I confirm"
Assumptions	"List what you assumed about my setup"
Sources	"Link the vendor doc for each command"

Follow-ups that improve any answer

- "What could go wrong if I run this?"
- "Give me the rollback steps too."
- "Explain it like I'm new to this."
- "Compare both options in a table."
- "Turn this into a checklist."
- "What would prove you wrong?"

Use AI safely at work

DANGER Never run an AI-written script or config on production until you read it and test it in a lab.

CAUTION Use only the AI tools your company approves. Public tools may keep what you paste.

CAUTION AI can invent flags and commands. Check each one in the vendor docs.

REMEMBER

- Paste the **real output**, masked
- Say the device, OS and version
- You own the change, not the AI

Sources: Anthropic, OpenAI & Gemini prompting docs · OWASP LLM Top 10 (2025)

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