

ChromeOS Crosh Shell

Complete Command Reference & Cheat Sheet

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What is Crosh?

Crosh (Chrome Shell) is ChromeOS's built-in command-line interface that provides access to diagnostic tools, system information, and network utilities. It's designed for troubleshooting, system monitoring, and advanced configuration tasks.

How to Access Crosh

Press `Ctrl` + `Alt` + `T` from anywhere in ChromeOS to open Crosh in a new browser tab.

Note: Most commands work in regular mode, but some advanced features require Developer Mode.

Pro Tips

- Use `Tab` for command auto-completion
- Press `Ctrl` + `C` to stop any running command
- Type `help` for basic commands or `help_advanced` for all commands
- Use `help <command>` to get specific help for any command

Basic Commands

Command	Description
<code>help</code>	Display general commands and basic help information
<code>help_advanced</code>	List debugging and advanced commands (use with caution)
<code>help <command></code>	Get detailed help for a specific command
<code>exit</code>	Exit the Crosh shell and close the terminal
<code>uptime</code>	Display system uptime and number of logged-in users
<code>set_time</code>	Manually set the system time
<code>top</code>	Display running processes (ChromeOS task manager)

Network Commands

Command	Description
<code>ping <destination></code>	Send ICMP packets to test network connectivity (use "gw" for

	gateway)
tracpath <destination>	Trace the network path/route to a destination
network_diag [options]	Run comprehensive network diagnostics and save results to Downloads
connectivity	Show current network connectivity status
ipaddrs -4	Display IPv4 address information
ipaddrs -6	Display IPv6 address information
route	Display network routing tables
dns	Perform DNS server lookup operations
set_wake_on_lan <true/false>	Enable or disable Wake-on-LAN feature
set_arpgw <true/false>	Enable extra network state checking for gateway reachability

● System Information & Hardware

Command	Description
battery_test [seconds]	Test battery discharge rate (default: 300 seconds)
memory_test	Perform extensive memory testing on available free memory
storage_status	Read storage device SMART health status and error logs
storage_test_1	Perform a short offline SMART test on storage device
storage_test_2	Perform an extensive readability test on storage device
tpm_status	Display Trusted Platform Module (TPM) status information
sound <command>	Low-level sound configuration and audio testing

● Cellular & Modem Commands

Command	Description
modem help	Display help for modem-related commands
modem_set_carrier <name>	Configure the modem for a specific carrier
set_apn <apn>	Set Access Point Name for cellular data connection
set_cellular_ppp	Set PPP username and password for cellular connection
update_over_cellular	Enable/disable automatic updates over cellular networks

Security & SSH Commands

Command	Description
ssh	Start SSH subsystem or connect to remote host
ssh <user>@<host>	Connect to remote host with specific user
ssh_forget_host	Remove a host from known SSH hosts list
chaps_debug	Set chapsd (cryptographic token) logging level

System Updates & Maintenance

Command	Description
rollback	Rollback to previous ChromeOS update (will powerwash device)
p2p_update	Enable/disable peer-to-peer update sharing
upload_crashes	Upload available crash reports to Chrome crash servers
syslog <message>	Log a custom message to system log
rlz <status/enable/disable>	Enable or disable RLZ (promotional tracking)

Linux Container Commands

Command	Description
vmc start termina	Start the Linux container (Crostini)
vmc stop termina	Force stop the Linux container
vmc start --enable-gpu	Start Linux container with GPU acceleration enabled

Input & Peripheral Commands

Command	Description
inputcontrol	Adjust touchpad and mouse controls manually
bt_console	Enable Bluetooth debugging console
evtest	Test input devices like stylus and perform touch diagnostics
xset m	Adjust mouse acceleration rate
xset r rate	Adjust keyboard autorepeat rates
xset r [keycode] on/off	

● Advanced Debugging Commands

Command	Description
<code>ff_debug</code>	Add and remove feature flag debugging tags
<code>network_logging</code>	Enable network debugging for wifi/cellular/ethernet
<code>wpa_debug</code>	Set wpa_supplicant debugging level
<code>experimental_storage</code>	Enable or disable experimental storage features

⚠ Developer Mode Commands

Some advanced commands require **Developer Mode** to be enabled. Developer Mode removes some security protections and should only be used by advanced users who understand the risks.

Command	Description
<code>shell</code>	Access full Linux shell with developer commands (Developer Mode only)
<code>sudo edit-grub-config</code>	Edit GRUB configuration file (Developer Mode only)

Common Use Cases

- **Network Troubleshooting:** Use `ping`, `network_diag`, and `connectivity`
- **System Performance:** Check with `top`, `memory_test`, and `battery_test`
- **Hardware Diagnostics:** Use `storage_status`, `evtest`, and `sound` commands
- **Linux Container Issues:** Restart with `vmc stop termina` then `vmc start termina`

ChromeOS Resources

For more ChromeOS tips, tricks, and advanced guides, visit our comprehensive resource hub.

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This cheat sheet covers the most commonly used Crosh commands. Command availability may vary based on