??????APT?

□□□□□□□□□□ apt□□□□□□□ Debian/Ubuntu□

```
sudo env INSTALL_DEPS=0 INSTALL_AIDE=0 bash -s -- < <(curl -fsSL
https://www.nat.ac.cn/shell/collect_system_ubuntu.sh)
```

□□□□□□□□□□□□ a□□□□□ f□□□□□□□□□□

```
# □□□□pwquality□□□
sudo env INSTALL_DEPS=1 INSTALL_AIDE=0 bash -s -- < <(curl -fsSL
https://www.nat.ac.cn/shell/collect_system_ubuntu.sh)
# □□□□□□□□□
sudo env INSTALL_DEPS=1 INSTALL_AIDE=0 bash -s -- < <(curl -fsSL
https://www.nat.ac.cn/shell/collect_system_ubuntu.sh)
```

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```
#!/bin/bash

set -euo pipefail

if [[ "$(uname)" != "Linux" ]]; then
  echo "□□□□ Linux □□□"; exit 1
fi

heartbeat() { while true; do echo "[heartbeat] $(date '+%F %T') □□□□..."; sleep 5; done; }
heartbeat & HEARTBEAT_PID=$!
cleanup() { kill "$HEARTBEAT_PID" 2>/dev/null || true; }
trap cleanup EXIT

SYSTEM_IP=$(ip addr show | grep -w inet | grep -v 127.0.0.1 | awk '{print $2}' | cut -d/ -f1 |
head -n1)
[ -z "$SYSTEM_IP" ] && SYSTEM_IP="unknown"
TIMESTAMP=$(date +%Y%m%d%H%M%S)
OUTPUT_FILE="$HOME/${SYSTEM_IP}_${TIMESTAMP}.txt"
```

```
touch "$OUTPUT_FILE"

run_command() {
  local cmd="$1" desc="$2"
  echo "$desc"
  {
    echo; echo "echo \"$desc\""; echo "echo \"Running: $cmd\""; echo "$cmd"
    eval "$cmd" 2>&1 || echo "□□□□□□□□□□"
    echo "----------------------------------------"
  } >> "$OUTPUT_FILE"
}

echo "□□□□..." > "$OUTPUT_FILE"
echo "□□□□: $OUTPUT_FILE" >> "$OUTPUT_FILE"
echo "□□□□: $(date)" >> "$OUTPUT_FILE"
echo "----------------------------------------" >> "$OUTPUT_FILE"

# □□□□□□□□□□□□□□□
INSTALL_DEPS="${INSTALL_DEPS:-0}"   # sudo/util-linux/auditd/pwquality/google-authenticator
INSTALL_AIDE="${INSTALL_AIDE:-0}"   # □□□□ AIDE

if [[ "$INSTALL_DEPS" == "1" || "$INSTALL_AIDE" == "1" ]]; then
  run_command "apt-get update || true" "□□□□□□□□□□□□"
fi
if [[ "$INSTALL_DEPS" == "1" ]]; then
  run_command "apt-get install -y sudo util-linux auditd libpam-pwquality libpam-google-
authenticator || true" "□□□□□□□□□□□□□□□□□"
fi
if [[ "$INSTALL_AIDE" == "1" ]]; then
  run_command "apt-get install -y aide || true" "□□□□ AIDE□□□□□□"
fi

if command -v sudo >/dev/null 2>&1; then SUDO="sudo"; else SUDO=""; fi

############ □□□□ ############
run_command "hostnamectl" "□□□□□□□□□□"
run_command "timedatectl" "□□/□□□□□□"
run_command "ip addr show" "IP □□"
run_command "uname -a" "□□□□□"
run_command "lsb_release -a 2>/dev/null || cat /etc/os-release" "□□□□□"
```

```
############ □□□□□□ ############
run_command "cat /etc/passwd" "□□□□□"
run_command "cat /etc/group" "□□□□□□"
run_command "${SUDO} cat /etc/shadow" "□□□□□□□ root□"
run_command "${SUDO} cat /etc/sudoers | grep -v ^# && ${SUDO} ls -l /etc/sudoers.d" "sudo □□"
run_command "w" "□□□□□□□"
run_command "who" "□□□□□"
run_command "last | head" "□□□□□□□□□□□□□□□□ util-linux □□ /var/log/wtmp□"
run_command "lastlog | head" "□□□□□□□"
run_command "${SUDO} grep -v ^# /etc/login.defs" "□□/□□□□□□□"
run_command "chage -l \$(whoami)" "□□□□□□□□□□"

############ □□□□□□/PAM ############
run_command "${SUDO} grep -v ^# /etc/pam.d/common-password" "PAM □□□□"
run_command "${SUDO} grep pam_pwquality /etc/pam.d/common-password" "□□□□ pwquality"
run_command "${SUDO} grep -v '^#' /etc/security/pwquality.conf" "pwquality □□□"
run_command "${SUDO} grep -v '^#' /etc/security/pwquality.conf.d/*.conf 2>/dev/null"
"pwquality □□□□"
run_command "dpkg -l | grep libpwquality || apt list --installed 2>/dev/null | grep
libpwquality" "pwquality □□□□□□"
run_command "${SUDO} grep -H 'pam_google_authenticator.so' /etc/pam.d/sshd /etc/pam.d/common-
auth /etc/pam.d/common-account 2>/dev/null" "PAM □□□□ Google Authenticator□□□□□□"

############ SSH □□□□ ############
run_command "${SUDO} grep -E
'^(Protocol|PermitRootLogin|PasswordAuthentication|PermitEmptyPasswords|ChallengeResponseAuthe
ntication|AuthenticationMethods|ClientAliveInterval|ClientAliveCountMax)'
/etc/ssh/sshd_config" "SSH □□□□"
run_command "cat \$HOME/.ssh/authorized_keys" "□□□□□□□□□"

############ □□□□□□□ ############
run_command "${SUDO} grep -v ^# /etc/pam.d/su" "su □□"
run_command "${SUDO} grep -v ^# /etc/pam.d/sudo" "sudo PAM □□"
run_command "echo \${TMOUT:-unset}; ${SUDO} grep TMOUT /etc/profile /etc/bash.bashrc
2>/dev/null" "□□□□□bash□"

############ □□□□□ ############
run_command "ps -eo user,pid,cmd | grep auditd" "□□□□"
run_command "${SUDO} systemctl status auditd" "□□□□□□"
```

```
run_command "${SUDO} auditctl -l" "□□□□□□□□□□"
run_command "${SUDO} cat /etc/audit/audit.rules 2>/dev/null" "□□□□□□□"
run_command "${SUDO} grep -v ^# /etc/audit/rules.d/*.rules 2>/dev/null" "□□□□□□□"
run_command "ls -ltr /var/log | tail" "□□□□□□□"
run_command "${SUDO} head -n 20 /var/log/syslog" "□□□□□□□"
run_command "${SUDO} head -n 20 /var/log/auth.log" "□□□□□□□"
run_command "${SUDO} grep -v ^# /etc/logrotate.conf" "□□□□□□□□"
run_command "ls -l /etc/logrotate.d" "□□□□□□□□"

############ □□□□□ ############
run_command "ss -lntp" "□□ TCP □□□□□"
run_command "ip route" "□□□"
run_command "ip neigh" "ARP □"
run_command "${SUDO} ufw status verbose" "UFW □□□□□"
run_command "command -v firewall-cmd >/dev/null 2>&1 && ${SUDO} firewall-cmd --list-all ||
echo 'firewalld □□□□□□□'" "□□ firewalld □□□□□"

############ □□□□□ ############
run_command "systemctl list-unit-files --type=service --state=enabled" "□□□□□□"
run_command "systemctl show rsyslog.service -p User,Group,UID,GID" "rsyslog □□□"
run_command "systemctl show auditd.service -p User,Group,UID,GID" "auditd □□□"
run_command "ps -eo user,pid,cmd --sort=pid | head -n 30" "□□□□□ 30 □"

############ □□□□□□□□□□□ ############
run_command "dpkg -l | grep aide" "AIDE □□□□□"
run_command "${SUDO} sysctl -a | grep -E
'net.ipv4.conf.all.(accept_source_route|accept_redirects|send_redirects|rp_filter|log_martians
|forwarding)'" "□□□□□□□□□□"
run_command "mount | grep -E 'noexec|nodev|nosuid'" "□□□□□□□"

echo "□□□□□□□□□□□ $OUTPUT_FILE"
```

Revision #6
Created 26 December 2025 02:16:35 by Forest
Updated 26 December 2025 02:42:15 by Forest