Post-Incident Procedures Documentation

1. System Recovery Procedures

1.1 VirtualBox Environment Restoration

- Snapshot Recovery:
 - Restore VM snapshot taken prior to incident
 - Use VirtualBox GUI > Select VM > Snapshots > Restore
- VM Cloning:
 - Use clone feature to preserve recovered state as backup

1.2 Parrot OS System Recovery

- Backup Restore:
 - Revert from system backup (e.g., Timeshift or rsync backup)
- Package Check:
 - Reinstall critical packages using sudo apt reinstall <package>
- Log Clean-Up:
 - Archive or clear logs post-analysis: sudo journalctl --rotate && sudo journalctl --vacuum-time=1s

1.3 Network Configuration Recovery

- Reset Interfaces:
 - Restart NetworkManager: sudo systemctl restart NetworkManager
- Reapply Firewall Rules:
 - Reload iptables or ufw configurations from backup

2. Root Cause Analysis

2.1 Event Timeline Recap:

- 03:14:55 SSH login attempt from macOS
- 03:14:57 Failed login logged on Parrot OS
- 03:15:00 Wazuh alert triggered
- 03:15:30 Evidence collection started

2.2 Contributing Factors:

- Weak or default SSH credentials
- Lack of IP filtering for SSH access
- Inadequate alert thresholds

2.3 Technical Findings:

- Parrot logs confirmed brute-force source
- Wireshark confirmed packet trace from macOS
- No firewall rule preventing unauthorized SSH traffic

3. Recovery Validation Checklist

Test Item	Procedure	Statu s
Wazuh Services	systemctl status wazuh-*	V
Network Access	ping, curl to internal/external services	V
SSH Hardening	Attempt unauthorized login (expect fail)	V
Firewall Rules	Verify with sudo iptables -L	V
Volatility Readiness	Test vol.py on sample dump	V

4. IR Process Improvement Recommendations

- Enforce SSH Key Authentication: Disable password logins
- Automate Snapshot Creation: Use cron job with VBoxManage snapshot
- USB Monitoring Scripts: Auto-alert on new USB insertion
- Regular Log Review: Set schedule for log inspections using logwatch
- Documented SOPs: For evidence collection, agent deployment, and rollback procedures
- 2FA Integration: Add multi-factor for all critical access points

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