

persistence

- T1156 .bash_profile and .bashrc
 - Atomic Test #1: Add command to .bash_profile [macos, linux]
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- T1067 Bootkit CONTRIBUTE A TEST
- T1176 Browser Extensions
 - Atomic Test #1: Chrome (Developer Mode) [linux, windows, macos]
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 - Atomic Test #3: Firefox [linux, windows, macos]
- T1136 Create Account
 - Atomic Test #1: Create a user account on a Linux system [linux]
 - Atomic Test #5: Create a new user in Linux with root UID and GID. [linux]
- T1158 Hidden Files and Directories
 - Atomic Test #1: Create a hidden file in a hidden directory [linux, macos]
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 - Atomic Test #9: Create Visible Directories [macos, linux]
 - Atomic Test #10: Create hidden directories and files [macos, linux]
- T1215 Kernel Modules and Extensions CONTRIBUTE A TEST
- T1168 Local Job Scheduling
 - Atomic Test #1: Cron Replace crontab with referenced file [macos, centos, ubuntu, linux]
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- T1205 Port Knocking CONTRIBUTE A TEST

- T1108 Redundant Access CONTRIBUTE A TEST
- T1166 Setuid and Setgid
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 - Atomic Test #2: Set a SetUID flag on file [macos, centos, ubuntu, linux]
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- T1154 Trap
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- T1078 Valid Accounts CONTRIBUTE A TEST
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discovery

- T1087 Account Discovery
 - Atomic Test #1: Enumerate all accounts [linux, macos]
 - Atomic Test #2: View sudoers access [linux, macos]
 - Atomic Test #3: View accounts with UID 0 [linux, macos]
 - Atomic Test #4: Show if a user account has ever logger in remotely [linux, macos]
 - Atomic Test #5: Enumerate users and groups [linux, macos]
- T1217 Browser Bookmark Discovery
 - Atomic Test #1: List Mozilla Firefox Bookmark Database Files on Linux [linux]
- T1083 File and Directory Discovery
 - Atomic Test #3: Nix File and Diectory Discovery [macos, linux]
 - Atomic Test #4: Nix File and Directory Discovery [macos, linux]
- T1046 Network Service Scanning
 - Atomic Test #1: Port Scan [linux, macos]

- Atomic Test #2: Port Scan Nmap [linux, macos]
- T1040 Network Sniffing
 - Atomic Test #1: Packet Capture Linux [linux]
- T1201 Password Policy Discovery
 - Atomic Test #1: Examine password complexity policy Ubuntu [ubuntu]
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 - Atomic Test #3: Examine password complexity policy CentOS/RHEL 6.x [centos]
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- T1069 Permission Groups Discovery
 - Atomic Test #1: Permission Groups Discovery [macos, linux]
- T1057 Process Discovery
 - Atomic Test #1: Process Discovery ps [macos, centos, ubuntu, linux]
- T1018 Remote System Discovery
 - Atomic Test #4: Remote System Discovery arp nix [linux, macos]
 - Atomic Test #5: Remote System Discovery sweep [linux, macos]
- T1082 System Information Discovery
 - Atomic Test #2: System Information Discovery [linux, macos]
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- T1016 System Network Configuration Discovery
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- T1049 System Network Connections Discovery
 - o Atomic Test #3: System Network Connections Discovery Linux & MacOS [linux, macos]
- T1033 System Owner/User Discovery
 - Atomic Test #2: System Owner/User Discovery [linux, macos]

lateral-movement

- T1017 Application Deployment Software CONTRIBUTE A TEST
- T1210 Exploitation of Remote Services CONTRIBUTE A TEST
- T1105 Remote File Copy
 - Atomic Test #1: rsync remote file copy (push) [linux, macos]
 - Atomic Test #2: rsync remote file copy (pull) [linux, macos]
 - Atomic Test #3: scp remote file copy (push) [linux, macos]
 - Atomic Test #4: scp remote file copy (pull) [linux, macos]
 - Atomic Test #5: sftp remote file copy (push) [linux, macos]
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- T1021 Remote Services CONTRIBUTE A TEST
- T1184 SSH Hijacking CONTRIBUTE A TEST
- T1072 Third-party Software CONTRIBUTE A TEST

collection

- T1123 Audio Capture
- T1119 Automated Collection
- T1115 Clipboard Data
- T1074 Data Staged
 - Atomic Test #1: Stage data from Discovery.sh [linux, macos]
- T1213 Data from Information Repositories CONTRIBUTE A TEST
- T1005 Data from Local System

- T1039 Data from Network Shared Drive CONTRIBUTE A TEST
- T1025 Data from Removable Media CONTRIBUTE A TEST
- T1056 Input Capture
- T1113 Screen Capture
 - Atomic Test #3: X Windows Capture [linux]
 - Atomic Test #4: Import [linux]

exfiltration

- T1020 Automated Exfiltration CONTRIBUTE A TEST
- T1002 Data Compressed
 - Atomic Test #3: Data Compressed nix zip [linux, macos]
 - Atomic Test #4: Data Compressed nix gzip Single File [linux, macos]
 - o Atomic Test #5: Data Compressed nix tar Folder or File [linux, macos]
- T1022 Data Encrypted
 - Atomic Test #1: Data Encrypted with zip and gpg [macos, centos, ubuntu, linux]
- T1030 Data Transfer Size Limits
 - Atomic Test #1: Data Transfer Size Limits [macos, centos, ubuntu, linux]
- T1048 Exfiltration Over Alternative Protocol
 - Atomic Test #1: Exfiltration Over Alternative Protocol SSH [macos, centos, ubuntu, linux]
 - Atomic Test #2: Exfiltration Over Alternative Protocol SSH [macos, centos, ubuntu, linux]
 - Atomic Test #3: Exfiltration Over Alternative Protocol HTTP [macos, centos, ubuntu, linux]
- T1041 Exfiltration Over Command and Control Channel CONTRIBUTE A TEST
- T1011 Exfiltration Over Other Network Medium CONTRIBUTE A TEST
- T1052 Exfiltration Over Physical Medium CONTRIBUTE A TEST

T1029 Scheduled Transfer CONTRIBUTE A TEST

credential-access

- T1139 Bash History
 - Atomic Test #1: xxxx [linux, macos]
- T1110 Brute Force
- T1003 Credential Dumping
- T1081 Credentials in Files
 - Atomic Test #2: Extract credentials from files [macos, linux]
- T1212 Exploitation for Credential Access CONTRIBUTE A TEST
- T1056 Input Capture
- T1040 Network Sniffing
 - Atomic Test #1: Packet Capture Linux [linux]
- T1145 Private Keys
 - Atomic Test #2: Discover Private SSH Keys [macos, linux]
 - Atomic Test #3: Copy Private SSH Keys with CP [linux]
 - Atomic Test #4: Copy Private SSH Keys with rsync [macos, linux]
- T1111 Two-Factor Authentication Interception CONTRIBUTE A TEST

defense-evasion

- T1009 Binary Padding
 - Atomic Test #1: Pad Binary to Change Hash Linux/macOS dd [macos, linux]

• T1146 Clear Command History

- Atomic Test #1: Clear Bash history (rm) [linux, macos]
- Atomic Test #2: Clear Bash history (echo) [linux, macos]
- Atomic Test #3: Clear Bash history (cat dev/null) [linux, macos]
- Atomic Test #4: Clear Bash history (In dev/null) [linux, macos]
- Atomic Test #5: Clear Bash history (truncate) [linux]
- Atomic Test #6: Clear history of a bunch of shells [linux, macos]

T1089 Disabling Security Tools

- Atomic Test #1: Disable iptables firewall [linux]
- Atomic Test #2: Disable syslog [linux]
- Atomic Test #3: Disable Cb Response [linux]
- Atomic Test #4: Disable SELinux [linux]
- T1211 Exploitation for Defense Evasion CONTRIBUTE A TEST

• T1107 File Deletion

- Atomic Test #1: Delete a single file Linux/macOS [linux, macos]
- Atomic Test #2: Delete an entire folder Linux/macOS [linux, macos]
- Atomic Test #3: Overwrite and delete a file with shred [linux]
- Atomic Test #12: Delete Filesystem Linux [linux, centos, ubuntu]

• T1222 File Permissions Modification

- Atomic Test #8: chmod Change file or folder mode (numeric mode) [macos, linux]
- Atomic Test #9: chmod Change file or folder mode (symbolic mode) [macos, linux]
- Atomic Test #10: chmod Change file or folder mode (numeric mode) recursively [macos, linux]
- Atomic Test #11: chmod Change file or folder mode (symbolic mode) recursively [macos, linux]
- Atomic Test #12: chown Change file or folder ownership and group [macos, linux]

- Atomic Test #13: chown Change file or folder ownership and group recursively [macos, linux]
- Atomic Test #14: chown Change file or folder mode ownership only [macos, linux]
- Atomic Test #15: chown Change file or folder ownership recursively [macos, linux]
- Atomic Test #16: chattr Remove immutable file attribute [macos, linux]

T1148 HISTCONTROL

- Atomic Test #1: Disable history collection [linux, macos]
- Atomic Test #2: Mac HISTCONTROL [macos, linux]

T1158 Hidden Files and Directories

- Atomic Test #1: Create a hidden file in a hidden directory [linux, macos]
- Atomic Test #3: Hidden file [macos, linux]
- Atomic Test #9: Create Visible Directories [macos, linux]
- Atomic Test #10: Create hidden directories and files [macos, linux]
- T1066 Indicator Removal from Tools CONTRIBUTE A TEST
- T1070 Indicator Removal on Host
 - Atomic Test #3: rm -rf [macos, linux]
 - Atomic Test #4: Overwrite Linux Mail Spool [linux]
 - Atomic Test #5: Overwrite Linux Log [linux]
- T1130 Install Root Certificate
 - Atomic Test #1: Install root CA on CentOS/RHEL [linux]
- T1036 Masquerading
 - Atomic Test #2: Masquerading as Linux crond process. [linux]
- T1027 Obfuscated Files or Information
 - Atomic Test #1: Decode base64 Data into Script [macos, linux]
- T1205 Port Knocking CONTRIBUTE A TEST
- T1055 Process Injection

- Atomic Test #3: Shared Library Injection via /etc/ld.so.preload [linux]
- T1108 Redundant Access CONTRIBUTE A TEST
- T1014 Rootkit
 - Atomic Test #1: Loadable Kernel Module based Rootkit [linux]
 - Atomic Test #2: Loadable Kernel Module based Rootkit [linux]
- T1064 Scripting
 - Atomic Test #1: Create and Execute Bash Shell Script [macos, linux]
- T1151 Space after Filename
- T1099 Timestomp
 - Atomic Test #1: Set a file's access timestamp [linux, macos]
 - Atomic Test #2: Set a file's modification timestamp [linux, macos]
 - Atomic Test #3: Set a file's creation timestamp [linux, macos]
 - Atomic Test #4: Modify file timestamps using reference file [linux, macos]
- T1078 Valid Accounts CONTRIBUTE A TEST
- T1102 Web Service CONTRIBUTE A TEST

execution

- T1059 Command-Line Interface
 - Atomic Test #1: Command-Line Interface [macos, centos, ubuntu, linux]
- T1203 Exploitation for Client Execution CONTRIBUTE A TEST
- T1061 Graphical User Interface CONTRIBUTE A TEST
- T1168 Local Job Scheduling
 - Atomic Test #1: Cron Replace crontab with referenced file [macos, centos, ubuntu, linux]
 - o Atomic Test #2: Cron Add script to cron folder [macos, centos, ubuntu, linux]

- Atomic Test #3: Event Monitor Daemon Persistence [macos, centos, ubuntu, linux]
- T1064 Scripting
 - Atomic Test #1: Create and Execute Bash Shell Script [macos, linux]
- T1153 Source
 - Atomic Test #1: Execute Script using Source [macos, linux]
 - Atomic Test #2: Execute Script using Source Alias [macos, linux]
- T1151 Space after Filename
- T1072 Third-party Software CONTRIBUTE A TEST
- T1154 Trap
 - Atomic Test #1: Trap [macos, centos, ubuntu, linux]
- T1204 User Execution CONTRIBUTE A TEST

command-and-control

- T1043 Commonly Used Port CONTRIBUTE A TEST
- T1092 Communication Through Removable Media CONTRIBUTE A TEST
- T1090 Connection Proxy
 - Atomic Test #1: Connection Proxy [macos, linux]
- T1094 Custom Command and Control Protocol CONTRIBUTE A TEST
- T1024 Custom Cryptographic Protocol CONTRIBUTE A TEST
- T1132 Data Encoding
 - Atomic Test #1: Base64 Encoded data. [macos, linux]
- T1001 Data Obfuscation CONTRIBUTE A TEST
- T1172 Domain Fronting CONTRIBUTE A TEST
- T1008 Fallback Channels CONTRIBUTE A TEST

- T1104 Multi-Stage Channels CONTRIBUTE A TEST
- T1188 Multi-hop Proxy CONTRIBUTE A TEST
- T1026 Multiband Communication CONTRIBUTE A TEST
- T1079 Multilayer Encryption CONTRIBUTE A TEST
- T1205 Port Knocking CONTRIBUTE A TEST
- T1219 Remote Access Tools CONTRIBUTE A TEST
- T1105 Remote File Copy
 - Atomic Test #1: rsync remote file copy (push) [linux, macos]
 - Atomic Test #2: rsync remote file copy (pull) [linux, macos]
 - Atomic Test #3: scp remote file copy (push) [linux, macos]
 - Atomic Test #4: scp remote file copy (pull) [linux, macos]
 - Atomic Test #5: sftp remote file copy (push) [linux, macos]
 - Atomic Test #6: sftp remote file copy (pull) [linux, macos]
- T1071 Standard Application Layer Protocol
 - Atomic Test #2: Malicious User Agents Nix [linux, macos]
- T1032 Standard Cryptographic Protocol CONTRIBUTE A TEST
- T1095 Standard Non-Application Layer Protocol CONTRIBUTE A TEST
- T1065 Uncommonly Used Port
 - Atomic Test #2: Testing usage of uncommonly used port [linux, macos]
- T1102 Web Service CONTRIBUTE A TEST

initial-access

T1189 Drive-by Compromise CONTRIBUTE A TEST

- T1190 Exploit Public-Facing Application CONTRIBUTE A TEST
- T1200 Hardware Additions CONTRIBUTE A TEST
- T1193 Spearphishing Attachment
- T1192 Spearphishing Link CONTRIBUTE A TEST
- T1194 Spearphishing via Service CONTRIBUTE A TEST
- T1195 Supply Chain Compromise CONTRIBUTE A TEST
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- T1078 Valid Accounts CONTRIBUTE A TEST

privilege-escalation

- T1068 Exploitation for Privilege Escalation CONTRIBUTE A TEST
- T1055 Process Injection
 - Atomic Test #3: Shared Library Injection via /etc/ld.so.preload [linux]
- T1166 Setuid and Setgid
 - Atomic Test #1: Setuid and Setgid [macos, centos, ubuntu, linux]
 - Atomic Test #2: Set a SetUID flag on file [macos, centos, ubuntu, linux]
 - Atomic Test #3: Set a SetGID flag on file [macos, centos, ubuntu, linux]
- T1169 Sudo
 - Atomic Test #1: Sudo usage [macos, linux]
- T1206 Sudo Caching
 - Atomic Test #1: Unlimited sudo cache timeout [macos, linux]
 - Atomic Test #2: Disable tty_tickets for sudo caching [macos, linux]
- T1078 Valid Accounts CONTRIBUTE A TEST

• T1100 Web Shell

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