- Очень часто
- Часто
- Редко
- Очень редко
- Нет информации

Reconnaissance

- Active Scanning
  - Scanning IP Blocks
  - Vulnerability Scanning
  - Wordlist Scanning
- Gather Victim Host Information
  - Hardware
  - Software
  - Firmware
  - Client Configuration
- Gather Victim Identity Information
  - Credentials
  - Email Addresses
  - Employee Names
- Gather Victim Network Information
  - Domain Properties
  - DNS
  - Network Trust Dependencies
  - Network Topology
  - IP Addresses
  - Network Security Appliances
- Gather Victim Org Information
  - Determine Physical Locations
  - Business Relationships
  - Identify Business Tempo
  - Identify Roles
- Phishing for Information
  - Spearphishing Services
  - Spearphishing Attachment
  - Spearphishing Link
  - Spearphishing Voice
- Search Closed Sources
  - Threat Intel Vendors
  - Purchase Technical Data
- Search Open Technical Databases
  - DNS/Passive DNS
  - WHOIS
  - Digital Certicates
  - CDNs
  - Scan Databases
  - Social Media
- Search Open Websites/ Domains
  - Search Engines
  - Code Repositories
- Search Threat Vendor Data
- Search Victim-Owned Websites

Resource Development

- Acquire Access
- Acquire Infrastructure
  - Domains
  - DNS Server
  - Virtual Private Server
  - Server
  - Botnet
  - Web Services
  - Serverless
  - Malvertising
  - Social Media Accounts
  - Email Accounts
  - Cloud Accounts
- Compromise Accounts
- Compromise Infrasructure
  - Domains
  - DNS Server
  - Virtual Private Server
  - Server
  - Botnet
  - Web Services
  - Serverless
  - Network Devices
- Develop Capabilities
  - Malware
  - Code Signing Certificates
  - Digital Certificates
  - Exploits
- Establish Accounts
  - Social Media Accounts
  - Email Accounts
  - Cloud Accounts
- Obtain Capabilities
  - Malware
  - Tool
  - Code Signing Certificates
  - Digital Certificates
  - Exploits
  - Vulnerabilities
  - Artificial Intelligence
- Stage Capabilities
  - Upload Malware
  - Upload Tool
  - Install Digital Certificate
  - Drive-by Target
  - Link Target
  - SEO Poisoning

Initial Access

- Content Injection
- Drive-by Compromise
- Exploit Public-Facing Application
- External Remote Services
- Hardware Additions
- Phishing
  - Spearphishing Attachment
  - Spearphishing Link
  - Spearphishing via Service
  - Spearphishing Voice
- Replication Through Removable Media
- Supply Chain Compromise
  - Compromise Software Dependencies and Development Tools
  - Compromise Software Supply Chain
  - Compromise Hardware Supply Chain
- Trusted Relationship
- Valid Accounts
  - Default Accounts
  - Domain Accounts
  - Local Accounts
  - Cloud Accounts
- Wi-Fi Networks

Execution

- Cloud Administration Command
- Command and Scripting Interpreter
  - PowerShell
  - AppleScript
  - Windows Command Shell
  - Unix Shell
  - Visual Basic
  - Python
  - JavaScript
  - Network Device CLI
  - Cloud API
  - AutoHotKey & AutoIT
  - Lua
  - Hypervisor CLI
  - Container CLI/API
- Container Administration Command
- Deploy Container
- ESXi Administration Command
- Exploitation for Client Execution
- Input Injection
- Inter-Process Communication
  - Component Object Model
  - Dynamic Data Exchange
  - XPC Services
- Native API
- Poisoned Pipeline Execution
- Scheduled Task/Job
  - At
  - Cron
  - Scheduled Task
  - Systemd Timers
  - Container Orchestration Job
- Serverless Execution
- Shared Modules
- Software Deployment Tools
- System Services
  - Launchctl
  - Service Execution
  - Systemctl
- User Execution
  - Malicious Link
  - Malicious File
  - Malicious Image
  - Malicious Copy and Paste
  - Malicious Library
- Windows Management Instrumentation

Persistence

- Account Manipulation
  - Additional Cloud Credentials
  - Additional Email Delegate Permissions
  - Additional Cloud Roles
  - SSH Authorized Keys
  - Device Registration
  - Additional Container Cluster Roles
  - Additional Local or Domain Groups
- BITS Jobs
- Boot or Logon Autostart Execution
  - Registry Run Keys / Startup Folder
  - Authentication Package
  - Time Providers
  - Winlogon Helper DLL
  - Security Support Provider
  - Kernel Modules and Extensions
  - Re-opened Applications
  - LSASS Driver
  - Shortcut Modification
  - Port Monitors
  - Print Processors
  - XDG Autostart Entries
  - Active Setup
  - Login Items
- Boot or Logon Initialization Scripts
  - Logon Script (Windows)
  - Login Hook
  - Network Logon Script
  - RC Scripts
  - Startup Items
- Cloud Application Integration
- Compromise Host Software Binary
- Create Account
  - Local Account
  - Domain Account
  - Cloud Account
- Create or Modify System Process
  - Launch Agent
  - Systemd Service
  - Windows Service
  - Launch Daemon
  - Container Service
- Event Triggered Execution
  - Change Default File Association
  - Screensaver
  - Windows Management Instrumentation Event Subscription
  - Unix Shell Configuration Modification
  - Trap
  - LC_LOAD_DYLIB Addition
  - Netsh Helper DLL
  - Accessibility Features
  - AppCert DLLs
  - AppInit DLLs
  - Application Shimming
  - Image File Execution Options Injection
  - PowerShell Profile
  - Emond
  - Component Object Model Hijacking
  - Installer Packages
  - Udev Rules
  - Python Startup Hooks
- Exclusive Control
- External Remote Services
- Hijack Execution Flow
  - DLL
  - Dylib Hijacking
  - Executable Installer File Permissions Weakness
  - Dynamic Linker Hijacking
  - Path Interception by PATH Environment Variable
  - Path Interception by Search Order Hijacking
  - Path Interception by Unquoted Path
  - Services File Permissions Weakness
  - Services Registry Permissions Weakness
  - COR_PROFILER
  - KernelCallbackTable
  - AppDomainManager
- Implant Internal Image
- Modify Authentication Process
  - Domain Controller Authentication
  - Password Filter DLL
  - Pluggable Authentication Modules
  - Network Device Authentication
  - Reversible Encryption
  - Multi-Factor Authentication
  - Hybrid Identity
  - Network Provider DLL
  - Conditional Access Provider
- Modify Registry
- Office Application Startup
  - Office Template Macros
  - Office Test
  - Outlook Forms
  - Outlook Home Page
  - Outlook Rules
  - Add-ins
- Power Settings
- Pre-OS Boot
  - System Firmware
  - Component Firmware
  - Bootkit
  - ROMMONkit
  - TFTP Boot
- Scheduled Task/Job
  - At
  - Cron
  - Scheduled Task
  - Systemd Timers
  - Container Orchestration Job
- Server Software Component
  - SQL Stored Procedures
  - Transport Agent
  - Web Shell
  - IIS Components
  - Terminal Services DLL
  - vSphere Installation Bundles
- Software Extensions
  - Browser Extensions
  - IDE Extensions
- Traffic Signaling
  - Port Knocking
  - Socket Filters
- Valid Accounts
  - Default Accounts
  - Domain Accounts
  - Local Accounts
  - Cloud Accounts

Privilege Escalation

- Abuse Elevation Control Mechanism
  - Setuid and Setgid
  - Bypass User Account Control
  - Sudo and Sudo Caching
  - Elevated Execution with Prompt
  - Temporary Elevated Cloud Access
  - TCC Manipulation
- Access Token Manipulation
  - Token Impersonation/ Theft
  - Create Process with Token
  - Make and Impersonate Token
  - Parent PID Spoofing
  - SID-History Injection
- Account Manipulation
  - Additional Cloud Credential
  - Additional Email Delegate Permissions
  - Additional Cloud Roles
  - SSH Authorized Keys
  - Device Registration
  - Additional Container Cluster Roles
  - Additional Local or Domain Groups
- Boot or Logon Autostart Execution
  - Registry Run Keys/ Startup Folder
  - Authentication Package
  - Time Providers
  - Winlogon Helper DLL
  - Security Support Provider
  - Kernel Modules and Extensions
  - Re-opened Applications
  - LSASS Driver
  - Shortcut Modification
  - Port Monitors
  - Print Processors
  - XDG Autostart Entries
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- Boot or Logon Initialization Scripts
  - Logon Script (Windows)
  - Login Hook
  - Network Logon Script
  - RC Scripts
  - Startup Items
- Create or Modify System Process
  - Launch Agent
  - Systemd Service
  - Windows Service
  - Launch Daemon
  - Container Service
- Domain or Tenant Policy Modification
  - Group Policy Modification
  - Trust Modification
- Escape to Host
- Event Triggered Execution
  - Change Default File Association
  - Screensaver
  - Windows Management Instrumentation Event Subscription
  - Unix Shell Configuration Modification
  - Trap
  - LC_LOAD_DYLIB Addition
  - Netsh Helper DLL
  - Accessibility Features
  - AppCert DLLs
  - AppInit DLLs
  - Application Shimming
  - Image File Execution Options Injection
  - PowerShell Profile
  - Emond
  - Component Object Model Hijacking
  - Installer Packages
  - Udev Rules
  - Python Startup Hooks
- Exploitation for Privilege Escalation
- Hijack Execution Flow
  - DLL
  - Dylib Hijacking
  - Executable Installer File Permissions Weakness
  - Dynamic Linker Hijacking
  - Path Interception by PATH Environment Variable
  - Path Interception by Search Order Hijacking
  - Path Interception by Unquoted Path
  - Services File Permissions Weakness
  - Services Registry Permissions Weakness
  - COR_PROFILER
  - KernelCallbackTable
  - AppDomainManager
- Process Injection
  - Dynamic-Link Library Injection
  - Portable Executable Injection
  - Thread Execution Hijacking
  - Asynchronous Procedure Call
  - Thread Local Storage
  - Ptrace System Calls
  - Proc Memory
  - Extra Window Memory Injection
  - Process Hollowing
  - Process Doppelgänging
  - VDSO Hijacking
  - ListPlanting
- Scheduled Task/Job
  - At
  - Cron
  - Scheduled Task
  - Systemd Timers
  - Container Orchestration Job
- Valid Accounts
  - Default Accounts
  - Domain Accounts
  - Local Accounts
  - Cloud Accounts

Defense Evasion

- Abuse Elevation Control Mechanism
  - Setuid and Setgid
  - Bypass User Account Control
  - Sudo and Sudo Caching
  - Elevated Execution with Prompt
  - Temporary Elevated Cloud Access
  - TCC Manipulation
- Access Token Manipulation
  - Token Impersonation/ Theft
  - Create Process with Token
  - Make and Impersonate Token
  - Parent PID Spoofing
  - SID-History Injection
- BITS Jobs
- Build Image on Host
- Debugger Evasion
- Delay Execution
- Deobfuscate/Decode Files or Information
- Deploy of Container
- Direct Volume Access
- Domain or Tenant Policy Modification
  - Group Policy Modification
  - Trust Modification
- Email Spoofing
- Execution Guardrails
  - Environmental Keying
  - Mutual Exclusion
- Exploitation for Defense Evasion
- File and Directory Permissions Modification
  - Windows File and Directory Permissions Modification
  - Linux and Mac File and Directory Permissions Modification
- Hide Artifacts
  - Hidden Files and Directories
  - Hidden Users
  - Hidden Window
  - NTFS File Attributes
  - Hidden File System
  - Run Virtual Instance
  - VBA Stomping
  - Email Hiding Rules
  - Resource Forking
  - Process Argument Spoofing
  - Ignore Process Interrupts
  - File/Path Exclusions
  - Bind Mounts
  - Extended Attributes
- Hijack Execution Flow
  - DLL
  - Dylib Hijacking
  - Executable Installer File Permissions Weakness
  - Dynamic Linker Hijacking
  - Path Interception by PATH Environment Variable
  - Path Interception by Search Order Hijacking
  - Path Interception by Unquoted Path
  - Services File Permissions Weakness
  - Services Registry Permissions Weakness
  - COR_PROFILER
  - KernelCallbackTable
  - AppDomainManager
- Impair Defenses
  - Disable or Modify Tools
  - Disable Windows Event Logging
  - Impair Command History Logging
  - Disable or Modify System Firewall
  - Indicator Blocking
  - Disable or Modify Cloud Firewall
  - Disable or Modify Cloud Logs
  - Safe Mode Boot
  - Downgrade Attack
  - Spoof Security Alerting
  - Disable or Modify Linux Audit System
  - Disable or Modify Network Device Firewall
- Impersonation
- Indicator Removal
  - Clear Windows Event Logs
  - Clear Linux or Mac System Logs
  - Clear Command History
  - File Deletion
  - Network Share Connection Removal
  - Timestomp
  - Clear Network Connection History and Configurations
  - Clear Mailbox Data
  - Clear Persistence
  - Relocate Malware
- Indirect Command Execution
- Masquerading
  - Invalid Code Signature
  - Right-to-Left Override
  - Rename Legitimate Utilities
  - Masquerade Task or Service
  - Match Legitimate Resource Name or Location
  - Space after Filename
  - Double File Extension
  - Masquerade File Type
  - Break Process Trees
  - Masquerade Account Name
  - Overwrite Process Arguments
  - Browser Fingerprint
- Modify Authentication Process
  - Domain Controller Authentication
  - Password Filter DLL
  - Pluggable Authentication Modules
  - Network Device Authentication
  - Reversible Encryption
  - Multi-Factor Authentication
  - Hybrid Identity
  - Network Provider DLL
  - Conditional Access Policies
- Modify Cloud Compute Infrastructure
  - Create Snapshot
  - Create Cloud Instance
  - Delete Cloud Instance
  - Revert Cloud Instance
  - Modify Cloud Compute Configurations
- Modify Cloud Resource Hierarchy
- Modify Registry
- Modify System Image
  - Patch System Image
  - Downgrade System Image
- Network Boundary Bridging
  - Network Address Translation Traversal
- Obfuscated Files or Information
  - Binary Padding
  - Software Packing
  - Steganography
  - Compile After Delivery
  - Indicator Removal from Tools
  - HTML Smuggling
  - Dynamic API Resolution
  - Stripped Payloads
  - Embedded Payloads
  - Command Obfuscation
  - Fileless Storage
  - LNK Icon Smuggling
  - Encrypted/Encoded File
  - Polymorphic Code
  - Compression
  - Junk Code Insertion
  - SVG Smuggling
- Plist File Modification
- Pre-OS Boot
  - System Firmware
  - Component Firmware
  - Bootkit
  - ROMMONkit
  - TFTP Boot
- Process Injection
  - Dynamic-link Library Injection
  - Portable Executable Injection
  - Thread Execution Hijacking
  - Asynchronous Procedure Call
  - Thread Local Storage
  - Ptrace System Calls
  - Proc Memory
  - Extra Window Memory Injection
  - Process Hollowing
  - Process Doppelgänging
  - VDSO Hijacking
  - ListPlanting
- Reflective Code Loading
- Rogue Domain Controller
- Rootkit
- Selective Exclusion
- Subvert Trust Controls
  - Gatekeep Bypass
  - Code Signing
  - SIP and Trust Provider Hijacking
  - Install Root Certificate
  - Mark-of-the-Web Bypass
  - Code Signing Policy Modification
- System Binary Proxy Execution
  - Compiled HTML File
  - Control Panel
  - CMSTP
  - InstallUtil
  - Mshta
  - Msiexec
  - Odbcconf
  - Regsvcs/Regasm
  - Regsvr32
  - Rundll32
  - Verclsid
  - Mavinject
  - MMC
  - Electron Applications
- System Script Proxy Execution
  - PubPrn
  - SyncAppvPublishing Server
- Template Injection
- Traffic Signaling
  - Port Knocking
  - Socket Filters
- Trusted Developer Utilities Proxy Execution
  - MSBuild
  - ClickOnce
  - JamPlus
- Unused/Unsupported Cloud Regions
- Use Alternate Authentication Material
  - Application Access Token
  - Pass the Hash
  - Pass the Ticket
  - Web Session Cookie
- Valid Accounts
  - Default Accounts
  - Domain Accounts
  - Local Accounts
  - Cloud Accounts
- Virtualization/ Sandbox Evasion
  - System Checks
  - User Activity Based Checks
  - Time Based Checks
- Weaken Encryption
  - Reduce Key Space
  - Disable Crypto Hardware
- XSL Script Processing

Credential Access

- Adversary-in-the-Middle
  - LLMNR/NBT-NS Poisoning and SMB Relay
  - ARP Cache Poisoning
  - DHCP Spoofing
  - Evil Twin
- Brute Force
  - Password Guessing
  - Password Cracking
  - Password Spraying
  - Credential Stuffing
- Credentials from Password Stores
  - Keychain
  - Securityd Memory
  - Credentials from Web Browsers
  - Windows Credential Manager
  - Password Managers
  - Cloud Secrets Management Stores
- Exploitation for Credential Access
- Forced Authentication
- Forge Web Credentials
  - Web Cookies
  - SAML Tokens
- Input Capture
  - Keylogging
  - GUI Input Capture
  - Web Portal Capture
  - Credential API Hooking
- Modify Authentication Process
  - Domain Controller Authentication
  - Password Filter DLL
  - Pluggable Authentication Modules
  - Network Device Authentication
  - Reversible Encryption
  - Multi-Factor Authentication
  - Hybrid Identity
  - Network Provider DLL
  - Conditional Access Policies
- Multi-Factor Authentication Interception
- Multi-Factor Authentication Request Generation
- Network Sniffing
- OS Credential Dumping
  - LSASS Memory
  - Security Account Manager
  - NTDS
  - LSA Secrets
  - Cached Domain Credentials
  - DCSync
  - Proc Filesystem
  - /etc/passwd and /etc/shadow
- Steal Application Access Token
- Steal or Forge Authentication Certificates
- Steal or Forge Kerberos Tickets
  - Golden Ticket
  - Silver Ticket
  - Kerberoasting
  - AS-REP Roasting
  - Ccache Files
- Steal Web Session Cookie
- Unsecured Credentials
  - Credentials in Files
  - Credentials in Registry
  - Shell History
  - Private Keys
  - Cloud Instance Metadata API
  - Group Policy Preferences
  - Container API
  - Chat Messages

Discovery

- Account Discovery
  - Local Account
  - Domain Account
  - Email Account
  - Cloud Account
- Application Window Discovery
- Browser Information Discovery
- Cloud Infrastructure Discovery
- Cloud Service Dashboard
- Cloud Service Discovery
- Cloud Storage Object Discovery
- Container and Resource Discovery
- Debugger Evasion
- Device Driver Discovery
- Domain Trust Discovery
- File and Directory Discovery
- Group Policy Discovery
- Local Storage Discovery
- Log Enumeration
- Network Service Discovery
- Network Share Discovery
- Network Sniffing
- Password Policy Discovery
- Peripheral Device Discovery
- Permission Groups Discovery
  - Local Groups
  - Domain Groups
  - Cloud Groups
- Process Discovery
- Query Registry
- Remote System Discovery
- Software Discovery
  - Security Software Discovery
  - Backup Software Discovery
- System Information Discovery
- System Location Discovery
  - System Language Discovery
- System Network Configuration Discovery
  - Internet Connection Discovery
  - Wi-Fi Discovery
- System Network Connections Discovery
- System Owner/User Discovery
- System Service Discovery
- System Time Discovery
- Virtual Machine Discovery
- Virtualization/ Sandbox Evasion
  - System Checks
  - User Activity Based Checks
  - Time Based Checks

Lateral Movement

- Exploitation of Remote Services
- Internal Spearphishing
- Lateral Tool Transfer
- Remote Service Session Hijacking
  - SSH Hijacking
  - RDP Hijacking
- Remote Services
  - Remote Desktop Protocol
  - SMB/Windows Admin Shares
  - Distributed Component Object Model
  - SSH
  - VNC
  - Windows Remote Management
  - Cloud Services
  - Direct Cloud VM Connections
- Replication Through Removable Media
- Software Deployment Tools
- Taint Shared Content
- Use Alternate Authentication Material
  - Application Access Token
  - Pass the Hash
  - Pass the Ticket
  - Web Session Cookie

Collection

- Adversary-in-the-Middle
  - LLMNR/NBT-NS Poisoning and SMB Relay
  - ARP Cache Poisoning
  - DHCP Spoofing
  - Evil Twin
- Archive Collected Data
  - Archive via Utility
  - Archive via Library
  - Archive via Custom Method
- Audio Capture
- Automated Collection
- Browser Session Hijacking
- Clipboard Data
- Data from Cloud Storage
- Data from Configuration Repository
  - SNMP (MIB Dump)
  - Network Device Configuration Dump
- Data from Information Repositories
  - Confluence
  - Sharepoint
  - Code Repositories
  - Customer Relationship Management Software
  - Messaging Applications
  - Databases
- Data from Local System
- Data from Network Shared Drive
- Data from Removable Media
- Data Staged
  - Local Data Staging
  - Remote Data Staging
- Email Collection
  - Local Email Collection
  - Remote Email Collection
  - Email Forwarding Rule
- Input Capture
  - Keylogging
  - GUI Input Capture
  - Web Portal Capture
  - Credential API Hooking
- Screen Capture
- Video Capture

Command and Control

- Application Layer Protocol
  - Web Protocols
  - File Transfer Protocols
  - Mail Protocols
  - DNS
  - Publish/Subscribe Protocols
- Communication Through Removable Media
- Content Injection
- Data Encoding
  - Standard Encoding
  - Non-Standard Encoding
- Data Obfuscation
  - Junk Data
  - Steganography
  - Protocol or Service Impersonation
- Dynamic Resolution
  - Fast Flux DNS
  - Domain Generation Algorithms
  - DNS Calculation
- Encrypted Channel
  - Symmetric Cryptography
  - Asymmetric Cryptography
- Fallback Channels
- Hide Infrastructure
- Ingress Tool Transfer
- Multi-Stage Channels
- Non-Application Layer Protocol
- Non-Standard Port
- Protocol Tunneling
- Proxy
  - Internal Proxy
  - External Proxy
  - Multi-hop Proxy
  - Domain Fronting
- Remote Access Tools
  - IDE Tunneling
  - Remote Desktop Software
  - Remote Access Hardware
- Traffic Signaling
  - Port Knocking
  - Socket Filters
- Web Service
  - Dead Drop Resolver
  - Bidirectional Communication
  - One-Way Communication

Exfiltration

- Automated Exfiltration
  - Traffic Duplication
- Data Transfer Size Limits
- Exfiltration Over Alternative Protocol
  - Exfiltration Over Symmetric Encrypted Non-C2 Protocol
  - Exfiltration Over Asymmetric Encrypted Non-C2 Protocol
  - Exfiltration Over Unencrypted Non-C2 Protocol
- Exfiltration Over C2 Channel
- Exfiltration Over Other Network Medium
  - Exfiltration Over Bluetooth
- Exfiltration Over Physical Medium
  - Exfiltration Over USB
- Exfiltration Over Web Service
  - Exfiltration to Code Repository
  - Exfiltration to Cloud Storage
  - Exfiltration to Text Storage Sites
  - Exfiltration Over Webhook
- Scheduled Transfer
- Transfer Data to Cloud Account

Impact

- Account Access Removal
- Data Destruction
- Data Encrypted for Impact
- Data Manipulation
  - Stored Data Manipulation
  - Transmitted Data Manipulation
  - Runtime Data Manipulation
- Defacement
  - Internal Defacement
  - External Defacement
- Disk Wipe
  - Disk Content Wipe
  - Disk Structure Wipe
- Email Bombing
- Endpoint Denial of Service
  - OS Exhaustion Flood
  - Service Exhaustion Flood
  - Application Exhaustion Flood
  - Application or System Exploitation
- Financial Theft
- Firmware Corruption
- Inhibit System Recovery
- Network Denial of Service
  - Direct Network Flood
  - Reflection Amplification
- Resource Hijacking
  - Compute Hijacking
  - Bandwidth Hijacking
  - SMS Pumping
  - Cloud Service Hijacking
- Service Stop
- System Shutdown/Reboot