Reconnaissance	Resource Development	Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command and Control	Exfibration	Impact
10 Active Scanning (3)	Acquire Access	10 Cloud Administration Command	14 Account Manipulation (7)	20 Account Manipulation (7)	14 Abuse Elevation Control Mechanism (6)	44 # Abuse Elevation Control Mechanism (6)	17 # Adversary-in-the-Middle (4)	Account Discovery (4)	Exploitation of Remote Services	17 Adversary-in-the-Middle (4) - LLMNR/NBT-NS Poisoning	18 Application Layer Protocol (5)	9 Automated Exfiltration (1)	Account access removal
- Scanning IP Blocks - Vulnerability Scanning	Acquire Infrastructure (8) - Domains	Command and Scripting Interpreter (11) - PowerShell	Additional Cloud Credentials Additional Email Delegate Parmissions	Additional Cloud Credentials Additional Email Delegate Darmissions			- LLMNR/NBT-NS Poisoning and SMB Relay - ARP Cache Poisoning	- Local Account - Domain Account	- Internal Spearphishing - Lateral Tool Transfer	- LLMNR/NBTNS Poisoning and SMB Relay - ARP Cache Poisoning	- Web Protocols - File Transfer Protocols		Data Destruction (1) - Lifecycle-Triggered Deletion
- Wordist Scanning Cather Victim Host Information (4)	- DNS Server - Virtual Private Server	- AppleScript - Windows Command Shell	- Additional Email Delegate Permissions - Additional Cloud Roles - SSH Authorized Keys	- Additional Cloud Roles - SSH Authorized Keys			- DHCP Spoofing - Evil Twin	- Email Account - Cloud Account	# Remote Service Session Hijacking (2)	- DHCP Spoofing - Evil Twin	- Mail Protocols	# Exfitration Over Alternative Protocol (3)	- Data Encrypted for Impact
Information (4) - Hardware	- Server	- Unix Shell	- Device Registration	- Device Registration			- EVI I MIN	- Application Window Discovery	Hijacking (2) - SSH Hijacking	- EW I WHI	- Publish/Subscribe Protocols	Alternative Protocol (3) - Exfiltration Over Symmetric Encrypted Non-C2 Protocol	# Data Manipulation (3)
- Software	- Botnet	- Visual Basic	- Additional Container Cluster Roles	- Additional Container Cluster Roles			# Brute Force (4)	- Browser Information Discovery	- RDP Hijacking	Archive Collected Data (3)		- Exfittation Over Asymmetric Encrypted Non- C2 Protocol	- Stored Data Manipulation
- Firmware - Client Configurations	- Web Services - Serverless	- Python - JavaScript	- Additional Local or Domain Groups	- Additional Local or Domain Groups - BiTS Jobs	Access Token Manipulation (5)	# Access Token Manipulation (5)	- Password Guessing - Password Cracking	Cloud Infrastructure Discovery Cloud Service Dashboard	# Remote Services (8)	Archive via Utility Archive via Library	Communication Through Removable Media - Content Injection	Unencrypted Non-C2 Protocol	- Transmitted Data Manipulation - Runtime Data Manipulation
- Caster Using practices Cather Victim Identity Information (3) - Credentials	- Malvertising	- Network Device CLI	- BITS Jobs Boot or Logon Autostart Execution (14)	Boot or Logon Autostart Execution (14)	- Token Impersonation/Theft	- Token Impersonation/Theft	- Password Spraying	- Cloud Service Discovery - Cloud Storage Object	Remote Desktop Protocol SMB/Windows Admin	- Archive via Custom Method		- Ethiston Over C2 Channel	
- Credentials - Email Addresses	Compromise Accounts (3) - Social Media Accounts	- Cloud API - AutoHotKey & AutolT	- Registry Run Keys / Startup Folder - Authentication Package	Boot or Logon Autostart Execution (14) - Registry Run Keys / Startup Folder	Create Process with Token Make and Impersonate Token		- Credential Stuffing	- Cloud Storage Object Discovery - Container and Resource Discovery	- SMB/Windows Admin Shares - Distributed Component Object Model	Audio Capture	Data Encoding (2) - Standard Encoding	# Exfiltration Over Other Network Medium (1) - Exfiltration Over Bluetooth	# Defacement (2) - Internal Defacement
- Employee Names Gather Victim Network	- Email Accounts - Cloud Accounts	- Lua Container Administration	- Time Providers	- Authentication Package - Time Providers			# Credentials from Password Stores (6) - Keychain	- Debugger Evasion - Device Driver Discovery	- SSH - VNC	- Automated Collection - Browser Session Hilacking	- Non-Standard Encoding	# Exfiltration Over Physical	- External Defacement
Gather Victim Network Information (6) - Domain Properties	- Cloud Accounts Compromise Infrastructure (8)	Container Administration Command - Deploy Container	- Winlogon Helper DLL - Security Support Provider	- Winlogon Helper DLL			- Securityd Memory	- Domain Trust Discovery	- VNC - Windows Remote Management	- Browser Session Headling - Clipboard Data	# Data Obfuscation (3)	# Exfiltration Over Physical Medium (1) - Exfiltration over USB	# Disk Wipe (2)
- DNS - Network Trust Dependencies	- Domains - DNS Server	- Exploitation for Client Execution Inter-Process Communication (3)	Kernel Modules and Extensions Re-opened Applications	- Security Support Provider - Kernel Modules and Extensions	Account Manipulation (7) - Additional Cloud Credentials		Credentials from Web Browsers Windows Credential Manager	File and Directory Discovery Group Policy Discovery	- Cloud Services - Direct Cloud VM Connections	- Data from Cloud Storage	- Junk Data - Stessino craphy	# Exfiltration Over Web Service (4) - Exfiltration to Code	- Disk Content Wipe - Disk Structure Wipe
- Network Topology	- Virtual Private Server	- Component Object Model	-LSASS Driver	- Re-opened Applications			- Password Managers	- Log Enumeration	- Replication Through Removable Media	Data from Configuration Repository (2)	- Protocol or Service Impersonation	- Exfitution to Code Repository	
- IP Addresses - Network Security Appliances	- Server - Botnet	- Dynamic Data Exchange - XPC Services	- Shortcut Modification - Port Monitors	- LSASS Driver - Shortcut Modification			Cloud Secrets Management Stores Exploitation for Credential Access	- Network Service Discovery - Network Share Discovery	- Software Deployment Tools - Taint Shared Content	- SNMP (MIB Dump) - Network Device Configuration Dump	# Dynamic Resolution (3)	- Exhibitation to Cloud Storage - Exhibitation to Text Storage Stee	# Endpoint Denial of Service (4) - OS Exhaustion Flood
Cather Victim Org Information (4) - Determine Physical Locations	- Web Services - Serverless	- Native API Scheduled Task/Job (5)	- Print Processors - XDG Autostart Entries	- Port Monitors - Print Processors		# Domain or Tenant Policy Modification (2)	- Forced Authentication	Network Sniffing Password Policy Discovery	# Use Alternate Authentication Material (4)	Data from information Repositories (5)	- Fact Flux DNS - Domain Generation	- Exfittation Over Webhook	- Service Exhaustion Flood - Application Exhaustion
- Business Relationships	- Network Devices	-At	- Active Setup	- XDG Autostart Entries			# Forge Web Credentials (2)	- Peripheral Device Discovery	- Application Access Token	- Confluence	Algorithms - DNS Calculation	- Transfer Data to Cloud Account	- Application Exhaustion Flood - Application or System Exploitation
- Identify Business Tempo - Identify Roles	Develop Capabilities (4) - Malware	- Cron - Scheduled Task	- Login Items Bost or Logon Initialization Scripts (5)	- Active Setup - Login Items	Boot or Logon Autostart Execution (14)		- Web Cookies - SAML Tokens	# Permission Groups Discovery (3)	- Pass the Hash - Pass the Ticket	- Sharepoint - Code Repositories	# Encrypted Channel (2)		- Firmware Corruption
Phishing for Information (4)	Code Signing Certificates Digital Certificates	- Systemd Timers - Container Orchestration Job	- Logen Script (Windows) - Legin Hook	Boot or Logon Initialization Scripts	- Registry Run Keys / Startup Folder - Authentication Package	# Execution Quardrails (2) - Environmental Keying - Mutual Exclusion	# Input Capture (4)	- Local Groups - Domain Groups	- Web Session Cookie	- Customer Relationship Management Software - Messaging Applications	- Symmetric Cryptography		- Inhibit System Recovery
- Spearphishing Service - Spearphishing Attachment	- Exploits	- Serverless Execution	- Network Logon Script	- Logon Script (Windows)	- Time Providers		- Keylogging	- Cloud Groups			-Asymmetric Gyptography		# Network Denial of Service (2)
- Spearphishing Link - Spearphishing Voice	Establish Accounts (3) - Social Media Accounts	- Shared Modules - Software Deployment Tools	- RC Scripts - Startup Items	- Login Hook - Network Logon Script		# Exploitation for Defense Evasion	- GUI Input Capture - Web Portal Capture	- Process Discovery - Query Registry		Data from Local System - Data from Network Shared Drive - Data from Removable Media	# Fallback Channels - Hide Infrastructure		- Direct Network Flood - Reflection Amplification
Search Closed Sources (2) - Threat Intel Vendors	- Email Accounts - Cloud Accounts	System Services (2) - Launchell	- Browser Extensions - Compromise Host Software Binary Create Account (3)	- RC Scripts - Startup Nems		# File and Directory Permissions		- Remote System Discovery		- Data from Removable Media	- Ingress Tool Transfer		# Resource Hijacking (4)
- Purchase Technical Data	Obtain Capabilities (7)	- Service Execution	Binary Create Account (3)	- Browser Extensions		File and Directory Permissions Modification (2) Windows File and Directory Permissions Modification	# Modify Authentication Process (9)	# Software Discovery (1)		Data Staged (2)	- Non-Application Layer Protocol		- Compute Hijacking
Search Open Technical Databases (5) - DNS/Passive DNS	- Malware - Tool	User Execution (3) - Malicious Link	- Local Account - Domain Account	- Compromise Host Software Binary			Domain Controller Authentication Password Filter DLL	- Security Software Discovery - System Information Discovery		- Local Data Staging - Remote Data Staging	- Non-Standard Port - Protocol Tunneling		- Bandwidth Hijacking - SMS Pumping
- WHOIS	- Code Signing Certificates	- Malicious File	- Cloud Account Create or Modify System Process (%)	Create Account (3)	- Print Processors - XDG Autostart Entries	# Hide Artifacts (12) - Hidden Files and Directories	Pluggable Authentication Modules Network Device Authentication	# System Location Discovery			# Down (C)		- Cloud Service Hijacking - Service Stop
- Digital Certificates - CDNs	- Digital Certificates - Exploits	- Malicious Image - Windows Management Instrumentation	- Launch Agent	- Domain Account			- Reversible Encryption	(1) - System Language Discovery		Email Collection (3) - Local Email Collection	# Proxy (4) - Internal Proxy		- Service Stop - System Shutdown/Reboot
- Scan Databases Search Open Websites/Domains (3)	- Vulnerabilities - Artificial Intelligence		- Systemd Service - Windows Service	- Cloud Account			- Multi-Factor Authentication - Hybrid Identity	# System Network Configuration Discovery (2)		- Remote Email Collection - Email Forwarding Rule	- External Proxy - Multi-hop Proxy		
- Social Media - Search Engines	Stage Capabilities (6) - Upload Malware		- Launch Daemon - Container Service	Create or Modify System Process (5) - Launch Agent	Boot or Logon Initialization Scripts (5) - Logon Script (Windows)		- Network Provider DLL - Conditional Access Policies	- Internet Connection Discovery - Wi-Fi Discovery		Input Capture (4)	- Domain Fronting		
- Code Repositories	- Upload Tool		Event Triggered Execution (17)	- Systemd Service			Multi-Factor Authentication Interception Multi-Factor Authentication Request Generation	- System Network Connections Discovery		- Keylogging	# Remote Access Software		
- Search Victim-Owned Websites	- Install Digital Certificate - Drive-by Target		- Change Default File Association - Screensaver	- Windows Service - Launch Daemon			Multi-Factor Authentication Request Generation Network Sniffing	- System Owner/User Discovery - System Service Discovery		- GUI Input Capture - Web Portal Capture	# Traffic Signaling (2)		
	- Link Target		Windows Management Instrumentation Event Subscription Unix Shell Configuration Modification	- Container Service				- System Time Discovery		- Credential API Hooking	- Port Knocking		
	- SEO Poisoning - Content Injection		- Unix Shell Configuration Modification - Trap	Event Triggered Execution (17)	Create or Modify System Process		# OS Credential Dumping (8) - LSASS Memory	# Virtualization/Sandbox		Screen Capture	- Socket Filters		
	- Drive-by Compromise - Exploit Public-Facing Application		- LC_LOAD_DYLIB Addition - Netsh Helper DLL	- Change Default File Association - Screensaver	- Launch Agent - Systemd Service	# Hijack Execution Flow (13)	- Security Account Manager - NTDS	Evasion (3) - System Checks - User Activity Based Checks		- Video Capture	# Web Service (3) - Dead Drop Resolver		
	- External Remote Services		- Accessibility Features	- Windows Management Instrumentation Event Subscription		- DLL Search Order Hijacking		- Time Based Evasion			- Bidirectional Communication		
	- Hardware Additions Phishing (4)		- AppCert DLLs - Applinit DLLs	- Unix Shell Configuration Modification - Trap			- Cached Domain Credentials - DCSync				- One-Way Communication		
	- Spearphishing Attachment - Spearphishing Link		- Application Shimming - Image File Execution Options Injection	- LC_LGAD_DYLIB Addition - Netsh Helper DLL	Domain or Tenant Policy Modification (2)		- Proc Filesystem - /etc/passed and						
	- Spearphishing via Service		- PowerShell Profile	- Accessibility Features	- Group Policy Modification		- /etc/passed and /etc/shadow - Steal Application Access Token						
	Spearphishing Voice Replication Through Removable Media		- Ermond - Component Object Model Hijacking	- AppCert DLLs - AppInit DLLs			- Steal or Forge Auther/fication Certificates						
	Supply Chain Compromise (3)		- Installer Packages	- Application Shimming			# Steal or Forge Kerberox Tickets (5) - Colden Ticket						
	Compromise Software Dependencies and Development Tools Compromise Software Supply Chain		- Udev Rules - External Remote Services	- Image File Execution Options Injection - PowerShell Profile	Event Triggered Execution (17) - Change Default File Association		- Golden Ticket - Silver Ticket						
	- Compromise Hardware Supply Chain		Hijack Execution Flow (13)	- Emond			- Kerberoasting						
	- Trusted Relationship		- DLL Search Order Hijacking - DLL Side-Loading	- Component Object Model Hijacking - Installer Packages			- AS-REP Roasting - Ocache Files						
			Dylib Hijacking Executable Installer File Permissions Weakness	- Udev Rules - External Remote Services		# Impair Defenses (11) - Disable or Modify Tools							
			Dynamic Linker Hijacking Path Interception by PATH Environment Variable	Hisck Execution Flow (13)	- Netsh Helper DLL - Accessibility Features		# Unsecured Credentials (8) - Credentials in Files						
			 Path Interception by Search Order Hijacking 	- DLL Search Order Hijacking	- AppCert DLLs		- Credentials in Registry						
			Path Interception by Unquoted Path Services File Permissions Weakness	- DLL Side-Loading - Dylib Hijacking			- Bash History - Private Keys						
			- Services Registry Permissions Weakness - COR_PROFILER	- Executable Installer File Permissions Weakness - Dynamic Linker Hijacking			- Cloud Instance Metadata API - Group Policy Preferences						
			- KemelCallbackTable	- Path Interception by PATH			- Container API						
			- AppDomainManager - Implant Internal Image	Path Interception by Search Order Hijacking Path Interception by Unquoted Path			- Chat Messages						
			Modify Authentication Process (9)	- Path Interception by Unquoted Path - Services File Permissions Weakness - Services Registry Permissions Weakness - COR_PROFILER									
			Domain Controller Authentication Password Filter DLL Pluggable Authentication			# Indicator Removal (10)							
			Pluggable Authentication Modules Network Device Authentication	- KernelCalbackTable - AppDomainManager	# Hijack Execution Flow (13) - DLL Search Order Hijacking								
			- Reversible Encryption - Multi-Factor Authentication	- Implant Internal Image	- DLL Side-Loading - Dylib Hijacking								
			- Hybrid Identity - Network Provider DLL	Modify Authentication Process (9) - Domain Controller Authentication	- Dylib Hijacking - Executable trottaller File Permissions Weakness - Dynamic Linker Hijacking								
			- Conditional Access Policies	- Password Filter DLL									
			Office Application Startup (6) - Office Template Macros	- Pluggable Authentication Modules - Network Device Authentication									
			- Office Test - Outlook Forms	- Reversible Encryption - Multi-Factor Authentication									
			- Outlook Home Page - Outlook Rules	- Hybrid Identity - Network Provider DLL	Weakness - COR_PROFILER - KernelCallbackTable	# Managereding (20)							
			- Add-ins	- Conditional Access Policies		Masqueroong (10) Invalid Code Signature Right-to-Left Override Rename System Utilities							
			- Power Settings Pre-OS Boot (5)	Office Application Startup (6)	# Process Injection (12)								
			- System Firmware - Component Firmware	- Office Template Macros - Office Test									
			- Bootkit - ROMMONkit	- Outlook Forms - Outlook Home Page									
			- TFTP Boot Scheduled Task/Job (5)	- Outlook Rules - Add-ins									
			- At - Cron	- Power Settings									
			- Scheduled Task	Pre-OS Boot (5) - System Firmware	- Process Hollowing - Process Doppelgänging	# Modify Authentication Process (9)							
			- Container Orchestration Job	- Component Firmware									
			Server Software Component (5) - SQL Stored Procedures	- Bootkit - ROMMONkit	- ListPlanting								
			- Transport Agent - Web Shell	- TFTP Boot	# Scheduled Task/Job (5) - At	# Modify Authentication Process (0) - Domain Controller Authentication - Password Filter DLL - Pluggable Authentication Modules - Nateurik Device Authentication - Reversible Encryption - Huller Earth Authentication - Hybrid Identity - Nateurik Provider DLL							
			- IIS Components - Terminal Services DLL	Scheduled Task/Job (5) -At	- Cron - Scheduled Task								
			Traffic Signaling (2) - Port Knocking	- Cron - Scheduled Task									
			- Socket Filters Valid Accounts (4)	- Systemd Timers - Container Orchestration Job	# Valid Accounts (4)	# Modify Cloud Compute Infrastructure (5) - Create Snapshot - Create Cloud Instance							
			- Default Accounts		- Default Accounts								
			- Domain Accounts - Local Accounts	Server Software Component (5) - SQL Stored Procedures		- Create Cloud Instance - Delete Cloud Instance - Revert Cloud Instance - Modify Cloud Compute Configurations - Modify Cloud Resource Hierarchy - Modify Registry							
			- Cloud Accounts	- Transport Agent - Web Shell	- Cloud Accounts	Configurations - Modify Cloud Resource Hierarchy							
				- IIS Components - Terminal Services DLL									
						# Modify System Image (2)							

Traffic Signaling (2) - Port Knocking	- Putch System Integer - Downgrade System Integer
- Socket Filters	
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	- System Firmware - Cumproved Firmware
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	# Process Injection (12)
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	- Code Signing
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	# System Binary Proxy Execution
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