L.M Saxton – Unit 2 Activity Att&ck Enterprise Matrix	https://attack.mitre.org/matrices/enterprise/#								
ctive Scanning (3)	Stage Capabilities (6)	BITS Jobs	Scheduled Task/Job (5)	Process Injection (12)	Indicator Removal (9)	System Binary Proxy Execution (13)	OS Credential Dumping (8)	Exploitation of Remote Services	Dynamic Resolution (3)
Scanning IP Blocks	Upload Malware	Post or Logan Autostart Evacution (14)	At	Dynamic-link Library Injection Portable Executable Injection	Clear Windows Event Logs	Compiled HTML File	LSASS Memory	Internal Cheerahiching	Fast Flux DNS
Vulnerability Scanning Wordlist Scanning	Upload Tool Install Digital Certificate	Boot or Logon Autostart Execution (14) Registry Run Keys / Startup Folder	Cron Scheduled Task	Thread Execution Hijacking	= Clear Linux or Mac System Logs Clear Command History	Control Panel CMSTP	Security Account Manager NTDS	Internal Spearphishing	Domain Generation Algorithms DNS Calculation
	Drive-by Target	Authentication Package	Systemd Timers	Asynchronous Procedure Call	File Deletion	InstallUtil	LSA Secrets	Lateral Tool Transfer	
Gather Victim Host Information (4)	Link Target	Time Providers	Container Orchestration Job	Thread Local Storage	Network Share Connection Removal	Mshta	Cached Domain Credentials	Demote Comice Coopies Hijedias (2)	Encrypted Channel (2)
Hardware Software	SEO Poisoning	Winlogon Helper DLL Security Support Provider	Server Software Component (5)	Ptrace System Calls Proc Memory	Timestomp Clear Network Connection History and Configurations	Msiexec Odbcconf	DCSync Proc Filesystem	Remote Service Session Hijacking (2) SSH Hijacking	Symmetric Cryptography Asymmetric Cryptography
Firmware		Kernel Modules and Extensions	SQL Stored Procedures	Extra Window Memory Injection	Clear Mailbox Data	Regsvcs/Regasm	/etc/passwd and /etc/shadow	RDP Hijacking	
Client Configurations	Drive-by Compromise	Re-opened Applications	Transport Agent	Process Hollowing	Clear Persistence	Regsvr32		5	Fallback Channels
Gather Victim Identity Information (3)	Exploit Public-Facing Application	LSASS Driver Shortcut Modification	Web Shell IIS Components	Process Doppelgänging VDSO Hijacking	Indirect Command Execution	Rundll32 Verclsid	Steal Application Access Token	Remote Services (6) Remote Desktop Protocol	Ingress Tool Transfer
Credentials	Exploit Fubility acting Application	Port Monitors	Terminal Services DLL	ListPlanting	Masquerading (7)	Mavinject	Steal or Forge Authentication Certificates	SMB/Windows Admin Shares	ingless roof transier
Email Addresses	External Remote Services	Print Processors			Invalid Code Signature	MMC		Distributed Component Object Model	Multi-Stage Channels
Employee Names	Hardware Additions	XDG Autostart Entries Active Setup	Traffic Signaling (2) Port Knocking	Scheduled Task/Job (5)	= Right-to-Left Override Rename System Utilities	System Script Proxy Execution (1)	Steal or Forge Kerberos Tickets (4) Golden Ticket	SSH VNC	Non-Application Layer Protocol
Gather Victim Network Information (6)	Taraware Additions	Login Items	Socket Filters	Cron	Masquerade Task or Service	PubPm	Silver Ticket	Windows Remote Management	Non Application Layer Frotocol
Domain Properties	Phishing (3)			Scheduled Task	Match Legitimate Name or Location		Kerberoasting		Non-Standard Port
DNS Network Trust Dependencies	Spearphishing Attachment Spearphishing Link	Boot or Logon Initialization Scripts (5) Logon Script (Windows)	Valid Accounts (4) Default Accounts	Systemd Timers Container Orchestration Job	Space after Filename Double File Extension	Template Injection	AS-REP Roasting	Replication Through Removable Media	Protocol Tunneling
Network Trust Dependencies Network Topology	Spearphishing via Service	Login Hook	Domain Accounts	Container Orchestration 30b	Double File Extension	Traffic Signaling (2)	Steal Web Session Cookie	Software Deployment Tools	Protocol furniening
IP Addresses		Network Logon Script	Local Accounts	Valid Accounts (4)	Modify Authentication Process (7)	Port Knocking			Proxy (4)
Network Security Appliances	Replication Through Removable Media	RC Scripts Startup Items	Cloud Accounts	Default Accounts Domain Accounts	Domain Controller Authentication = Password Filter DLL	Socket Filters	Unsecured Credentials (7) Credentials In Files	Taint Shared Content	Internal Proxy External Proxy
Gather Victim Org Information (4)	Supply Chain Compromise (3)	Startup items	Abuse Elevation Control Mechanism (4)	Local Accounts	Pluggable Authentication Modules	Trusted Developer Utilities Proxy Execution (1)	Credentials in Files Credentials in Registry	Use Alternate Authentication Material (4)	Multi-hop Proxy
Determine Physical Locations	Compromise Software Dependencies and Development Tools	Browser Extensions	Setuid and Setgid	Cloud Accounts	Network Device Authentication	MSBuild	Bash History	Application Access Token	Domain Fronting
Business Relationships	Compromise Software Supply Chain	Compression Client Coftware Binon	Bypass User Account Control		Reversible Encryption	Linux dillinguage arted Claud Degises	Private Keys	Pass the Hash Pass the Ticket	Domesta Access Coffware
Identify Business Tempo Identify Roles	Compromise Hardware Supply Chain	Compromise Client Software Binary	Sudo and Sudo Caching Elevated Execution with Prompt	Abuse Elevation Control Mechanism (4)	Multi-Factor Authentication Hybrid Identity	Unused/Unsupported Cloud Regions	Cloud Instance Metadata API Group Policy Preferences	Web Session Cookie	Remote Access Software
	Trusted Relationship	Create Account (3)	·	Setuid and Setgid		Use Alternate Authentication Material (4)	Container API		Traffic Signaling (2)
Phishing for Information (3)	Valid Associate (4)	Local Account	Access Token Manipulation (5)	Bypass User Account Control	Modify Cloud Compute Infrastructure (4)	Application Access Token	Account Discovery (4)	Adversary-in-the-Middle (3)	Port Knocking
Spearphishing Service Spearphishing Attachment	Valid Accounts (4) Default Accounts	Domain Account Cloud Account	Token Impersonation/Theft Create Process with Token	Sudo and Sudo Caching Elevated Execution with Prompt	Create Snapshot = Create Cloud Instance	Pass the Hash Pass the Ticket	Account Discovery (4) Local Account	LLMNR/NBT-NS Poisoning and SMB Relay ARP Cache Poisoning	Socket Filters
Spearphishing Link	Domain Accounts		Make and Impersonate Token	·	Delete Cloud Instance	Web Session Cookie	Domain Account	DHCP Spoofing	Web Service (3)
	Local Accounts	Create or Modify System Process (4)	Parent PID Spoofing	Access Token Manipulation (5)	Revert Cloud Instance	Volid Appoints (4)	Email Account		Dead Drop Resolver
Search Closed Sources (2) Threat Intel Vendors	Cloud Accounts	Launch Agent Systemd Service	SID-History Injection	Token Impersonation/Theft Create Process with Token	Modify Registry	Valid Accounts (4) Default Accounts	Cloud Account	Archive Collected Data (3) Archive via Utility	Bidirectional Communication One-Way Communication
Purchase Technical Data	Command and Scripting Interpreter (8)	Windows Service	Boot or Logon Autostart Execution (14)	Make and Impersonate Token		Domain Accounts	Application Window Discovery	Archive via Library	
	PowerShell	Launch Daemon	Registry Run Keys / Startup Folder	Parent PID Spoofing	Modify System Image (2)	Local Accounts		Archive via Custom Method	Automated Exfiltration (1)
Search Open Technical Databases (5) DNS/Passive DNS	AppleScript Windows Command Shell	Event Triggered Execution (16)	Authentication Package Time Providers	SID-History Injection	Patch System Image = Downgrade System Image	Cloud Accounts	Browser Bookmark Discovery	Audio Capture	Traffic Duplication
WHOIS	Unix Shell	Change Default File Association	Winlogon Helper DLL	BITS Jobs		Virtualization/Sandbox Evasion (3)	Cloud Infrastructure Discovery	Addio Capture	Data Transfer Size Limits
Digital Certificates	Visual Basic	Screensaver	Security Support Provider		Network Boundary Bridging (1)	System Checks	·	Automated Collection	
CDNs Scan Databases	Python JavaScript	Windows Management Instrumentation Event Subscription Unix Shell Configuration Modification	Kernel Modules and Extensions Re-opened Applications	Build Image on Host	Network Address Translation Traversal	User Activity Based Checks Time Based Evasion	Cloud Service Dashboard	Browser Session Hijacking	Exfiltration Over Alternative Protocol (3) Exfiltration Over Symmetric Encrypted Non-C2 Protocol
Scan Dalabases	Network Device CLI	Trap	LSASS Driver	Debugger Evasion	Obfuscated Files or Information (9)	Time based Evasion	Cloud Service Discovery	Blowsel Session Filacking	Exhitration Over Asymmetric Encrypted Non-C2 Protocol
Search Open Websites/Domains (3)		LC_LOAD_DYLIB Addition	Shortcut Modification		Binary Padding	Weaken Encryption (2)	·	Clipboard Data	Exfiltration Over Unencrypted Non-C2 Protocol
Social Media	Container Administration Command	Netsh Helper DLL	Port Monitors	Deobfuscate/Decode Files or Information	= Software Packing	Reduce Key Space	Cloud Storage Object Discovery	Data from Claud Storage	Eviltration Over C2 Channel
Search Engines Code Repositories	Deploy Container	Accessibility Features AppCert DLLs	Print Processors XDG Autostart Entries	Deploy Container	Steganography Compile After Delivery	Disable Crypto Hardware	Container and Resource Discovery	Data from Cloud Storage	Exfiltration Over C2 Channel
		Applnit DLLs	Active Setup		Indicator Removal from Tools	XSL Script Processing	·	Data from Configuration Repository (2)	Exfiltration Over Other Network Medium (1)
Search Victim-Owned Websites	Exploitation for Client Execution	Application Shimming	Login Items	Direct Volume Access	HTML Smuggling	Adversarvin the Middle (2)	Debugger Evasion	SNMP (MIB Dump)	Exfiltration Over Bluetooth
Acquire Infrastructure (7)	Inter-Process Communication (3)	Image File Execution Options Injection PowerShell Profile	Boot or Logon Initialization Scripts (5)	Domain Policy Modification (2)	Dynamic API Resolution Stripped Payloads	Adversary-in-the-Middle (3) LLMNR/NBT-NS Poisoning and SMB Relay	Domain Trust Discovery	Network Device Configuration Dump	Exfiltration Over Physical Medium (1)
Domains	Component Object Model	Emond	Logon Script (Windows)	Group Policy Modification	Embedded Payloads	ARP Cache Poisoning		Data from Information Repositories (3)	Exfiltration over USB
DNS Server	Dynamic Data Exchange	Component Object Model Hijacking	Login Hook	Domain Trust Modification	Diet File Medification	DHCP Spoofing	File and Directory Discovery	Confluence	
Virtual Private Server Server	XPC Services	Installer Packages	Network Logon Script RC Scripts	Execution Guardrails (1)	Plist File Modification	Brute Force (4)	Group Policy Discovery	Sharepoint Code Repositories	Exfiltration Over Web Service (2) Exfiltration to Code Repository
Botnet		External Remote Services	Startup Items	Environmental Keying	Pre-OS Boot (5)	Password Guessing			Exhibitation to Cloud Storage
Web Services	Nighting A.D.I			Exploitation for Defense Evasion	System Firmware	Password Cracking	Network Service Discovery	Data from Local System	
Serverless	Native API	Hijack Execution Flow (12) DLL Search Order Hijacking	Create or Modify System Process (4) Launch Agent	File and Directory Permissions Modification (2)	= Component Firmware Bootkit	Password Spraying Credential Stuffing	Network Share Discovery	Data from Network Shared Drive	Scheduled Transfer
Compromise Accounts (3)	Scheduled Task/Job (5)	DLL Side-Loading	Systemd Service	Windows File and Directory Permissions Modification	ROMMONkit	•			Transfer Data to Cloud Account
Social Media Accounts	At	Dylib Hijacking	Windows Service	Linux and Mac File and Directory Permissions Modification	TFTP Boot	Credentials from Password Stores (5)	Network Sniffing	Data from Removable Media	
Email Accounts Cloud Accounts	Cron Scheduled Task	Executable Installer File Permissions Weakness Dynamic Linker Hijacking	Launch Daemon	Hide Artifacts (10)	Process Injection (12)	Keychain Securityd Memory	Password Policy Discovery	Data Staged (2)	Account Access Removal
	Systemd Timers	Path Interception by PATH Environment Variable	Domain Policy Modification (2)	Hidden Files and Directories	Dynamic-link Library Injection	Credentials from Web Browsers		Local Data Staging	Data Destruction
Compromise Infrastructure (7)	Container Orchestration Job	Path Interception by Search Order Hijacking	Group Policy Modification	Hidden Users	= Portable Executable Injection	Windows Credential Manager	Peripheral Device Discovery	Remote Data Staging	
Domains DNS Server		Path Interception by Unquoted Path Services File Permissions Weakness	Domain Trust Modification	Hidden Window NTFS File Attributes	Thread Execution Hijacking Asynchronous Procedure Call	Password Managers	Permission Groups Discovery (3)	Email Collection (3)	Data Encrypted for Impact
Virtual Private Server		Services Registry Permissions Weakness	Escape to Host	Hidden File System	Thread Local Storage	Exploitation for Credential Access	Local Groups	Local Email Collection	Data Manipulation (3)
Server	Serverless Execution	COR_PROFILER KernelCallbackTable		Run Virtual Instance	Ptrace System Calls		Domain Groups	Remote Email Collection	Stored Data Manipulation
Botnet Web Services	Shared Modules	KernelCallbackTable	Event Triggered Execution (16) Change Default File Association	VBA Stomping Email Hiding Rules	Proc Memory Extra Window Memory Injection	Forced Authentication	Cloud Groups	Email Forwarding Rule Input Capture (4)	Transmitted Data Manipulation Runtime Data Manipulation
Serverless	Shared Modules	Implant Internal Image	Change Detault File Association Screensaver	Email Hiding Rules Resource Forking	Extra Window Memory Injection Process Hollowing	Forge Web Credentials (2)	Process Discovery	Input Capture (4) Keylogging	καιταπε σαια ινιαπιμαιατίστ
	Software Deployment Tools		Windows Management Instrumentation Event Subscription	Process Argument Spoofing	Process Doppelgänging	Web Cookies		GUI Input Capture	Defacement (2)
Develop Capabilities (4) Malware	System Services (2)	Modify Authentication Process (7) Domain Controller Authentication	Unix Shell Configuration Modification Trap	Hijack Execution Flow (12)	VDSO Hijacking	SAML Tokens	Query Registry	Web Portal Capture	Internal Defacement
Malware Code Signing Certificates	Launchetl	Password Filter DLL	LC_LOAD_DYLIB Addition	Hijack Execution Flow (12) DLL Search Order Hijacking	ListPlanting	Input Capture (4)	Remote System Discovery	Credential API Hooking	External Defacement
Digital Certificates	Service Execution	Pluggable Authentication Modules	Netsh Helper DLL	DLL Side-Loading	Reflective Code Loading	Keylogging		Screen Capture	Disk Wipe (2)
Exploits		Network Device Authentication	Accessibility Features	Dylib Hijacking Executable Installer File Permissions Weakness		GUI Input Capture	Software Discovery (1)	Video Canturo	Disk Content Wipe
Establish Accounts (3)		Reversible Encryption Multi-Factor Authentication	AppCert DLLs AppInit DLLs	Executable Installer File Permissions Weakness Dynamic Linker Hijacking	Rogue Domain Controller	Web Portal Capture Credential API Hooking	Security Software Discovery	Video Capture	Disk Structure Wipe
Social Media Accounts	User Execution (3)	Hybrid Identity	Application Shimming	Path Interception by PATH Environment Variable	Rootkit		System Information Discovery		Endpoint Denial of Service (4)
Email Accounts	Malicious Link	Office Application Startus (6)	Image File Execution Options Injection	Path Interception by Search Order Hijacking	Subvert Trust Centrals (C)	Modify Authentication Process (7)		Application Layer Protocol (4)	OS Exhaustion Flood
Cloud Accounts	Malicious File Malicious Image	Office Application Startup (6) Office Template Macros	PowerShell Profile Emond	Path Interception by Unquoted Path Services File Permissions Weakness	Subvert Trust Controls (6) Gatekeeper Bypass	Domain Controller Authentication Password Filter DLL	System Location Discovery (1) System Language Discovery	Web Protocols File Transfer Protocols	Service Exhaustion Flood Application Exhaustion Flood
Obtain Capabilities (6)	en e	Office Test	Component Object Model Hijacking	Services Registry Permissions Weakness	= Code Signing	Pluggable Authentication Modules		Mail Protocols	Application or System Exploitation
Malware Tool		Outlook Home Page	Installer Packages	COR_PROFILER KernelCallbackTable	SIP and Trust Provider Hijacking	Network Device Authentication	System Network Configuration Discovery (1)	DNS	Eirmwore Corruption
Code Signing Certificates	Windows Management Instrumentation	Outlook Home Page Outlook Rules	Exploitation for Privilege Escalation	кеттегсапраск гарге	Install Root Certificate Mark-of-the-Web Bypass	Reversible Encryption Multi-Factor Authentication	Internet Connection Discovery		Firmware Corruption
Digital Certificates	Time to management moduline manon	Add-ins		Impair Defenses (9)	Code Signing Policy Modification	Hybrid Identity	System Network Connections Discovery		Inhibit System Recovery
Exploits			Hijack Execution Flow (12)	Disable or Modify Tools				Communication Through Removable Media	
Vulnerabilities	Account Manipulation (5) Additional Cloud Credentials	Pre-OS Boot (5) System Firmware	DLL Search Order Hijacking DLL Side-Loading	Disable Windows Event Logging Impair Command History Logging		Multi-Factor Authentication Interception	System Owner/User Discovery	Data Encoding (2)	Network Denial of Service (2) Direct Network Flood
	Additional Cloud Credentials Additional Email Delegate Permissions	Component Firmware	Dylib Hijacking	Disable or Modify System Firewall		Multi-Factor Authentication Request Generation	System Service Discovery	Standard Encoding	Reflection Amplification
	Additional Cloud Roles	Bootkit	Executable Installer File Permissions Weakness	Indicator Blocking				Non-Standard Encoding	
	SSH Authorized Keys Device Registration	ROMMONkit TFTP Boot	Dynamic Linker Hijacking Path Interception by PATH Environment Variable	Disable or Modify Cloud Firewall		Network Sniffing	System Time Discovery	Data Obfuscation (2)	Resource Hijacking
	Device Registration	IFIF DUUL	Path Interception by PATH Environment Variable Path Interception by Search Order Hijacking	Disable Cloud Logs Safe Mode Boot			Virtualization/Sandbox Evasion (3)	Data Obfuscation (3) Junk Data	Service Stop
			Path Interception by Unquoted Path	Downgrade Attack			System Checks	Steganography	
Did you have service as a self-like a service with the service and the service with the ser	dit on coffuence and the matienal and a set 1995 and a table 2		Services File Permissions Weakness				User Activity Based Checks	Protocol Impersonation	System Shutdown/Reboot
Did you have any issues or challenges with the literature search/audi No issues: CAPEC has been used in other reports – it	dit on software sites and the national vulnerabilities database? it was helpful to have the CVE report list penetration test categories.		Services Registry Permissions Weakness				Time Based Evasion		
low did you overcome them?									
,	it was helpful to have the CVE report list penetration test categories.		COR_PROFILER						
ow will they affect your final report? Here is a good benchmark for various attacks that can	n come up during a penetration test.		KernelCallbackTable						
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