

Reconnaissance
Vulnerability

Gather Victim
Organization
Information

Reconnaissance
Vulnerability

Phishing
for
Information

Reconnaissance
Vulnerability

Search
Closed
Sources

Reconnaissance
Vulnerability

Search Open
Technical
Databases

Reconnaissance
Vulnerability

Active
Scanning

Reconnaissance
Vulnerability

Gather
Victim Host
Information

Reconnaissance
Vulnerability

Gather Victim
Identity
Information

Reconnaissance
Vulnerability

Gather Victim
Network
Information

Reconnaissance
Vulnerability

Reconnaissance
Vulnerability

**Search Open
Websites/Domains**

**Search
Victim-Owned
Websites**

Initial
Access
Vulnerability

Hardware
Additions

Initial
Access
Vulnerability

Phishing

Initial
Access
Vulnerability

Replication
Through
Removable
Media

Initial
Access
Vulnerability

Supply
Chain
Compromise

**Initial
Access
Vulnerability**

**Content
Injection**

**Initial
Access
Vulnerability**

**Drive-by
Compromise**

**Initial
Access
Vulnerability**

**Exploit
Public-Facing
Application**

**Initial
Access
Vulnerability**

**External
Remote
Services**

**Initial
Access
Vulnerability**

**Container
Administration
Command**

**Initial
Access
Vulnerability**

**Exploitation
for Client
Execution**

**Execution
Vulnerability**

**Inter-Process
Communication**

**Execution
Vulnerability**

**Native
API**

**Execution
Vulnerability**

**Trusted
Relationship**

**Execution
Vulnerability**

**Valid
Accounts**

**Execution
Vulnerability**

**Cloud
Administration
Command**

**Execution
Vulnerability**

**Command
and Scripting
Interpreter**

**Execution
Vulnerability**

**System
Services**

**Execution
Vulnerability**

**User
Execution**

**Execution
Vulnerability**

**Windows
Management
Instrumentation**

**Execution
Vulnerability**

**Account
Manipulation**

Execution
Vulnerability

Schedule
Task/Job

Execution
Vulnerability

Serverless
Execution

Execution
Vulnerability

Shared
Modules

Persistence
Vulnerability

Software
Deployment
Tools

Persistence
Vulnerability

Client
Software
Binary

Persistence
Vulnerability

Create
Account

Persistence
Vulnerability

Create/Modify
System
Process

Persistence
Vulnerability

Event
Triggered
Execution

Persistence
Vulnerability

**BITS
Jobs**

Persistence
Vulnerability

Boot or Logon
Autostart
Execution

Persistence
Vulnerability

Boot or Logon
Initialization
Scripts

Persistence
Vulnerability

**Browser
Extensions**

Persistence
Vulnerability

Office
Application
Startup

Persistence
Vulnerability

Power
Settings

Persistence
Vulnerability

Pre-OS
Boot

Persistence
Vulnerability

Scheduled
Task/Job

Persistence
Vulnerability

External
Remote
Services

Persistence
Vulnerability

Hijack
Execution
Flow

Persistence
Vulnerability

Implant
Internal
Image

Persistence
Vulnerability

Modify
Authentication
Process

Persistence
Vulnerability

Access
Token
Manipulation

Persistence
Vulnerability

Account
Manipulation

Persistence
Vulnerability

Boot or Logon
Autostart
Execution

Privilege
Escalation
Vulnerability

Boot or Logon
Initialization
Scripts

Privilege
Escalation
Vulnerability

Server
Software
Component

Privilege
Escalation
Vulnerability

Traffic
Signaling

Privilege
Escalation
Vulnerability

Valid
Accounts

Privilege
Escalation
Vulnerability

Elevation
Control
Mechanism

**Privilege
Escalation
Vulnerability**

**Exploitation
for Privilege
Escalation**

**Privilege
Escalation
Vulnerability**

**Hijack
Execution
Flow**

**Privilege
Escalation
Vulnerability**

**Process
Injection**

**Privilege
Escalation
Vulnerability**

**Scheduled
Task/Job**

Privilege
Escalation
Vulnerability

Create/Modify
System
Process

Privilege
Escalation
Vulnerability

Domain
Policy
Modification

Privilege
Escalation
Vulnerability

Escape
to Host

Privilege
Escalation
Vulnerability

Event
Triggered
Execution

Privilege
Escalation
Vulnerability

Build
Image on
Host

Defense
Evasion
Vulnerability

Debugger
Evasion

Defense
Evasion
Vulnerability

Deobfuscate/Decode
Files or information

Defense
Evasion
Vulnerability

Deploy
Container

Defense
Evasion
Vulnerability

Valid
Accounts

Defense
Evasion
Vulnerability

Abuse
Elevation
Control
Mechanism

Defense
Evasion
Vulnerability

Access
Token
Manipulation

Defense
Evasion
Vulnerability

BITS
Jobs

Defense
Evasion
Vulnerability

File and
Directory
Permissions
Modification

Defense
Evasion
Vulnerability

Hide
Artifacts

Defense
Evasion
Vulnerability

Hijack
Execution
Flow

Defense
Evasion
Vulnerability

Impair
Defenses

Defense
Evasion
Vulnerability

Direct
Volume
Access

Defense
Evasion
Vulnerability

Domain
Policy
Modification

Defense
Evasion
Vulnerability

Execution
Guardrails

Defense
Evasion
Vulnerability

Exploitation
for Defense
Evasion

Defense
Evasion
Vulnerability

Modify
Authentication
Process

Defense
Evasion
Vulnerability

Modify Cloud
Compute
Infrastructure

Defense
Evasion
Vulnerability

Modify
Registry

Defense
Evasion
Vulnerability

Modify
System
Image

Defense
Evasion
Vulnerability

Impersonation

Defense
Evasion
Vulnerability

Indicator
Removal

Defense
Evasion
Vulnerability

Indirect
Command
Execution

Defense
Evasion
Vulnerability

Masquerading

Defense
Evasion
Vulnerability

Process
Injection

Defense
Evasion
Vulnerability

Reflective
Code
Loading

Defense
Evasion
Vulnerability

Rogue
Domain
Controller

Defense
Evasion
Vulnerability

Rootkit

Defense
Evasion
Vulnerability

Network
Boundary
Bridging

Defense
Evasion
Vulnerability

Obfuscated
Files/Information

Defense
Evasion
Vulnerability

Plist File
Modification

Defense
Evasion
Vulnerability

Pre-OS
Boot

Defense
Evasion
Vulnerability

Traffic
Signaling

Defense
Evasion
Vulnerability

Trusted
Developer
Utilities Proxy
Execution

Defense
Evasion
Vulnerability

Unused/Unsupported
Cloud Regions

Defense
Evasion
Vulnerability

Use Alternate
Authentication
Material

Defense
Evasion
Vulnerability

Subvert
Trust
Controls

Defense
Evasion
Vulnerability

System
Binary Proxy
Execution

Defense
Evasion
Vulnerability

System
Script Proxy
Execution

Defense
Evasion
Vulnerability

Template
Injection

Defense
Evasion
Vulnerability

Adversary-in-the-Middle

Defense
Evasion
Vulnerability

Brute
Force

Defense
Evasion
Vulnerability

Credentials
from Password
Stores

Defense
Evasion
Vulnerability

Exploitation for
Credentials
Access

**Credential
Access
Vulnerability**

**Valid
Accounts**

**Credential
Access
Vulnerability**

**Virtualization/Sandbox
Evasion**

**Credential
Access
Vulnerability**

**Weaken
Encryption**

**Credential
Access
Vulnerability**

**XSL Script
Processing**

**Credential
Access
Vulnerability**

**Multi-Factor
Authentication
Interception**

**Credential
Access
Vulnerability**

**Multi-Factor
Authentication
Request
Generation**

**Credential
Access
Vulnerability**

**Network
Sniffing**

**Credential
Access
Vulnerability**

**OS
Credentials
Dumping**

Credential
Access
Vulnerability

Forced
Authentication

Credential
Access
Vulnerability

Forge Web
Credentials

Credential
Access
Vulnerability

Input
Capture

Credential
Access
Vulnerability

Modify
Authentication
Process

**Credential
Access
Vulnerability**

**Unsecured
Credentials**

**Credential
Access
Vulnerability**

**Account
Discovery**

**Credential
Access
Vulnerability**

**Application
Window
Discovery**

**Credential
Access
Vulnerability**

**Browser
Information
Discovery**

**Credential
Access
Vulnerability**

**Steal
Application
Access Token**

**Discovery
Vulnerability**

**Steal/Forge
Authentication
Certificates**

**Discovery
Vulnerability**

**Steal/Forge
Kerberos
Tickets**

**Discovery
Vulnerability**

**Steal Web
Session
Cookie**

**Discovery
Vulnerability**

**Container and
Resource
Discovery**

**Discovery
Vulnerability**

**Debugger
Evasion**

**Discovery
Vulnerability**

**Device
Driver
Discovery**

**Discovery
Vulnerability**

**Domain
Trust
Discovery**

**Discovery
Vulnerability**

**Cloud
Infrastructure
Discovery**

**Discovery
Vulnerability**

**Cloud
Service
Dashboard**

**Discovery
Vulnerability**

**Cloud
Service
Discovery**

**Discovery
Vulnerability**

**Cloud Storage
Object
Discovery**

Discovery
Vulnerability

Network
Share
Discovery

Discovery
Vulnerability

Network
Sniffing

Discovery
Vulnerability

Password
Policy
Discovery

Discovery
Vulnerability

Peripheral
Device
Discovery

**Discovery
Vulnerability**

**File and
Directory
Discovery**

**Discovery
Vulnerability**

**Group
Policy
Discovery**

**Discovery
Vulnerability**

**Log
Enumeration**

**Discovery
Vulnerability**

**Network
Service
Discovery**

Discovery
Vulnerability

Software
Discovery

Discovery
Vulnerability

System
Information
Discovery

Discovery
Vulnerability

System
Location
Discovery

Discovery
Vulnerability

System
Network
Configurations
Discovery

Discovery
Vulnerability

Permission
Groups
Discovery

Discovery
Vulnerability

Process
Discovery

Discovery
Vulnerability

Query
Registry

Discovery
Vulnerability

Remote
System
Discovery

**Discovery
Vulnerability**

Virtualization/Sandbox
Evasion

**Discovery
Vulnerability**

**Exploitation
of Remote
Services**

**Discovery
Vulnerability**

Internal
Spearphishing

**Discovery
Vulnerability**

**Lateral
Tool
Transfer**

**Discovery
Vulnerability**

**System
Network
Connections
Discovery**

**Lateral
Movement
Vulnerability**

**System
Owner/User
Discovery**

**Lateral
Movement
Vulnerability**

**System
Service
Discovery**

**Lateral
Movement
Vulnerability**

**System
Time
Discovery**

Lateral
Movement
Vulnerability

Taint
Shared
Content

Lateral
Movement
Vulnerability

Use Alternate
Authentication
Material

Lateral
Movement
Vulnerability

Adversary-in-the-middle

Lateral
Movement
Vulnerability

Archive
Collected
Data

**Lateral
Movement
Vulnerability**

**Remote
Service
Session
Hijacking**

**Lateral
Movement
Vulnerability**

**Remote
Services**

**Collection
Vulnerability**

**Replication
Through
Removable
Media**

**Collection
Vulnerability**

**Software
Deployment
Tools**

**Collection
Vulnerability**

**Data from
Cloud
Storage**

**Collection
Vulnerability**

**Data from
Configuration
Repository**

**Collection
Vulnerability**

**Data from
Information
Repositories**

**Collection
Vulnerability**

**Data from
Local
System**

Collection
Vulnerability

Audio
Capture

Collection
Vulnerability

Automated
Collection

Collection
Vulnerability

Browser
Session
Hijacking

Collection
Vulnerability

Clipboard
Data

Collection
Vulnerability

Input
Capture

Collection
Vulnerability

Screen
Capture

Collection
Vulnerability

Video
Capture

Collection
Vulnerability

Application
Layer
Protocol

**Collection
Vulnerability**

**Data from
Network
Shared Drive**

**Collection
Vulnerability**

**Data from
Removable
Media**

**Collection
Vulnerability**

**Data
Staged**

**Command
and Control
Vulnerability**

**Email
Collection**

Command
and Control
Vulnerability

Dynamic
Resolution

Command
and Control
Vulnerability

Encrypted
Channel

Command
and Control
Vulnerability

Fallback
Channels

Command
and Control
Vulnerability

Ingress
Tool
Transfer

**Command
and Control
Vulnerability**

**Communication
Through
Removable
Media**

**Command
and Control
Vulnerability**

**Content
Injection**

**Command
and Control
Vulnerability**

**Data
Encoding**

**Command
and Control
Vulnerability**

**Data
Obfuscation**

Command
and Control
Vulnerability

Proxy

Command
and Control
Vulnerability

Remote
Access
Service

Command
and Control
Vulnerability

Traffic
Signaling

Command
and Control
Vulnerability

Web
Service

Command
and Control
Vulnerability

Multi-Stage
Channels

Command
and Control
Vulnerability

Non-Application
Layer Protocol

Command
and Control
Vulnerability

Non-Standard
Port

Command
and Control
Vulnerability

Protocol
Tunneling

**Exfiltration
Vulnerability**

**Exfiltration
Over Other
Network
Medium**

**Exfiltration
Vulnerability**

**Exfiltration
Over Physical
Medium**

**Exfiltration
Vulnerability**

**Exfiltration
Over Web
Service**

**Exfiltration
Vulnerability**

**Scheduled
Transfer**

**Exfiltration
Vulnerability**

**Automated
Exfiltration**

**Exfiltration
Vulnerability**

**Data
Transfer
Size Limits**

**Exfiltration
Vulnerability**

**Exfiltration
Over
Alternative
Protocol**

**Exfiltration
Vulnerability**

**Exfiltration
Over
Channel**

**Exfiltration
Vulnerability**

**Data
Manipulation**

**Impact
Vulnerability**

Defacement

**Impact
Vulnerability**

**Disk
Wipe**

**Impact
Vulnerability**

**Endpoint
Denial of
Service**

**Impact
Vulnerability**

**Transfer Data
to Cloud
Account**

**Impact
Vulnerability**

**Account
Access
Removal**

**Impact
Vulnerability**

**Data
Destruction**

**Impact
Vulnerability**

**Data
Encrypted
for Impact**

Impact
Vulnerability

Resource
Hijacking

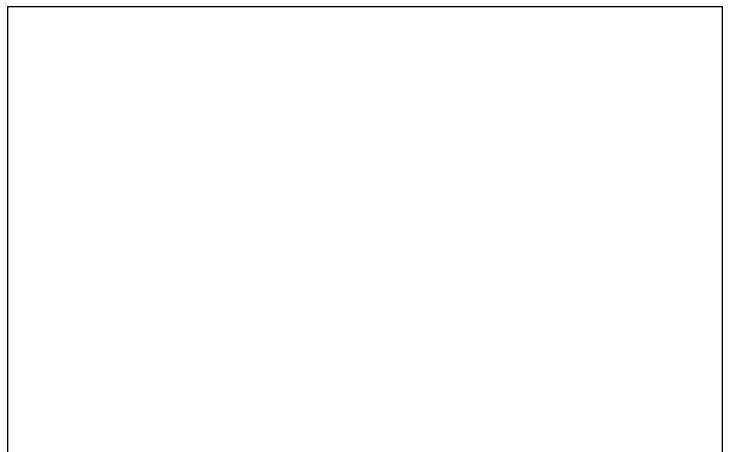
Impact
Vulnerability

Service
Stop

Impact
Vulnerability

System
Shutdown/Reboot

Impact
Vulnerability



**Impact
Vulnerability**

**Financial
Theft**

**Impact
Vulnerability**

**Firmware
Corruption**

**Impact
Vulnerability**

**Inhibit
System
Recovery**

**Network
Denial of
Service**