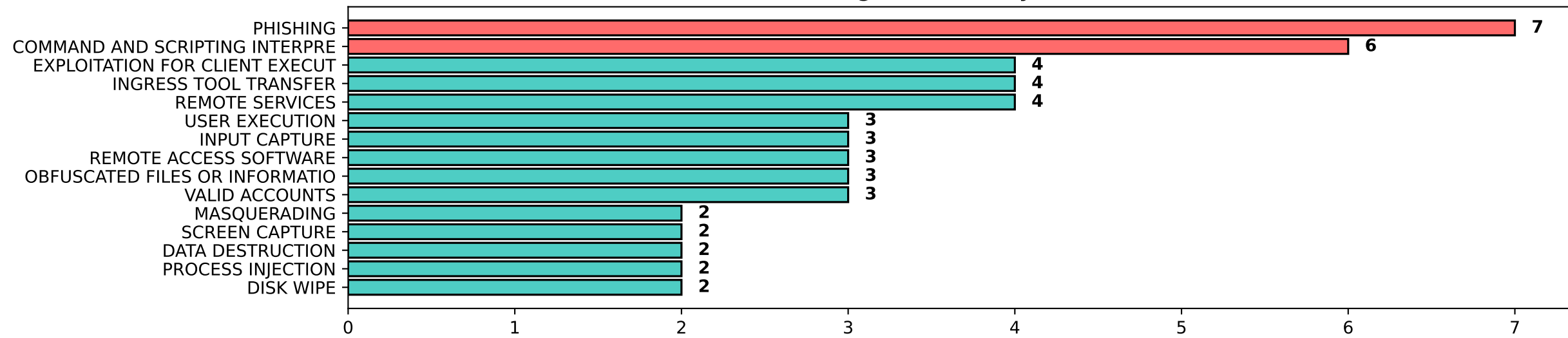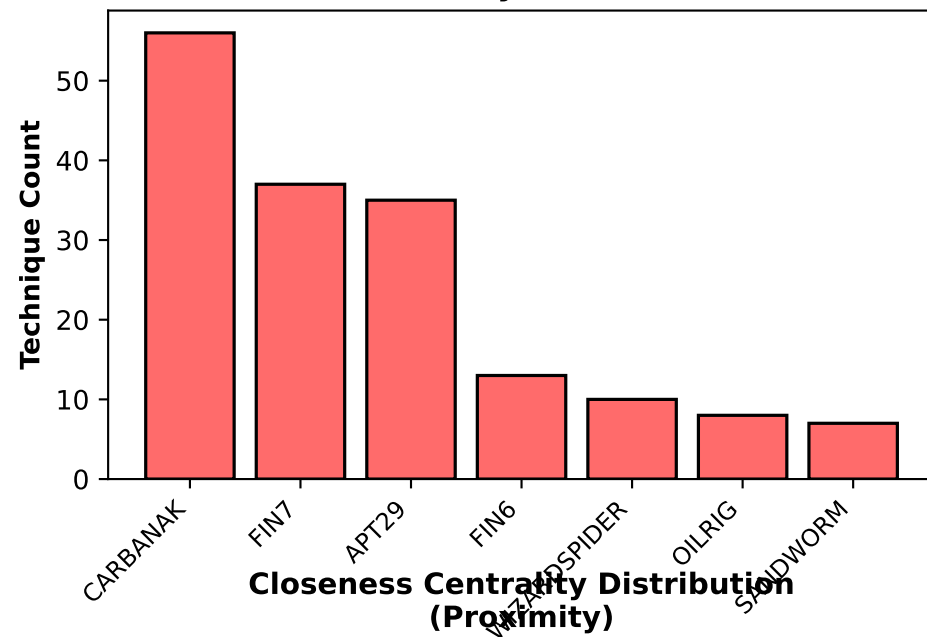**CTI Knowledge Graph - Comprehensive Centrality Analysis**
(Degree vs Betweenness vs Closeness)
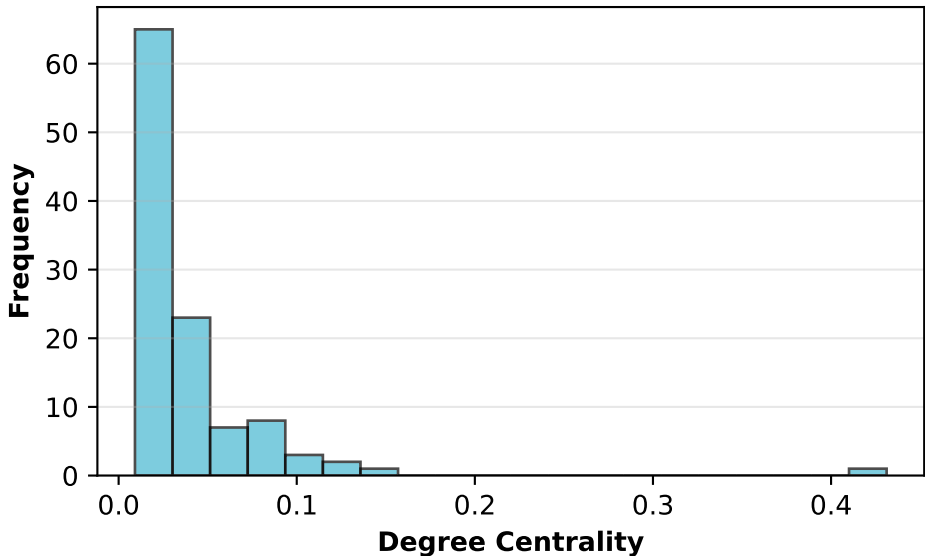
Top 15 Techniques by APT Usage
(Degree Centrality View)
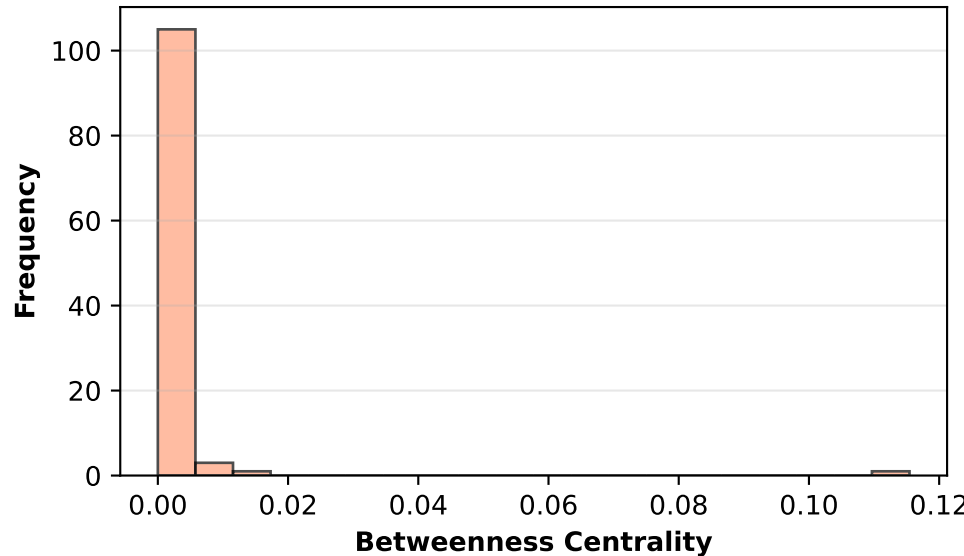
Technique	Number of APTs Using Technique
PHISHING	7
COMMAND AND SCRIPTING INTERPRE	6
EXPLOITATION FOR CLIENT EXECUT	4
INGRESS TOOL TRANSFER	4
REMOTE SERVICES	4
USER EXECUTION	3
INPUT CAPTURE	3
REMOTE ACCESS SOFTWARE	3
OBFUSCATED FILES OR INFORMATIO	3
VALID ACCOUNTS	3
MASQUERADING	2
SCREEN CAPTURE	2
DATA DESTRUCTION	2
PROCESS INJECTION	2
DISK WIPE	2

APT Activity Distribution — CARBANAK, FIN7, APT29, FIN6, SPIDER, OILRIG, SANDWORM
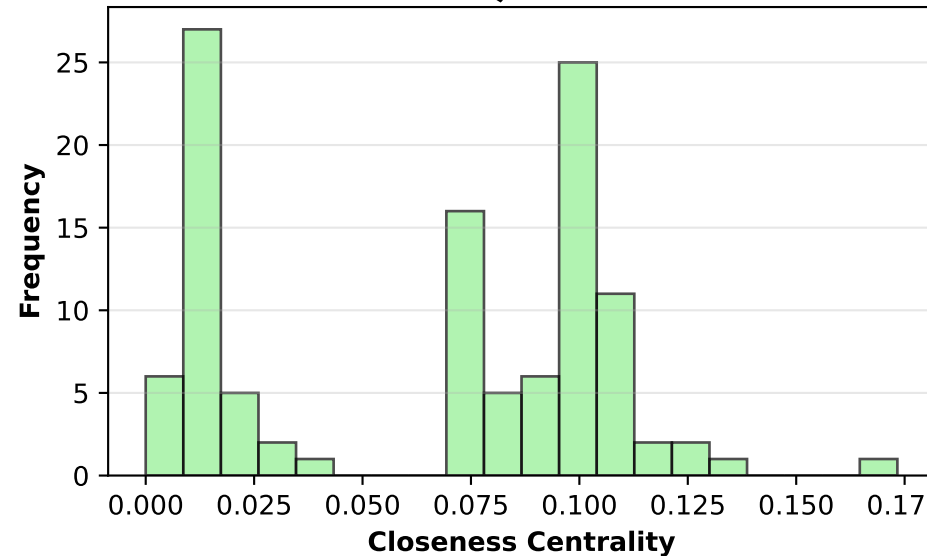
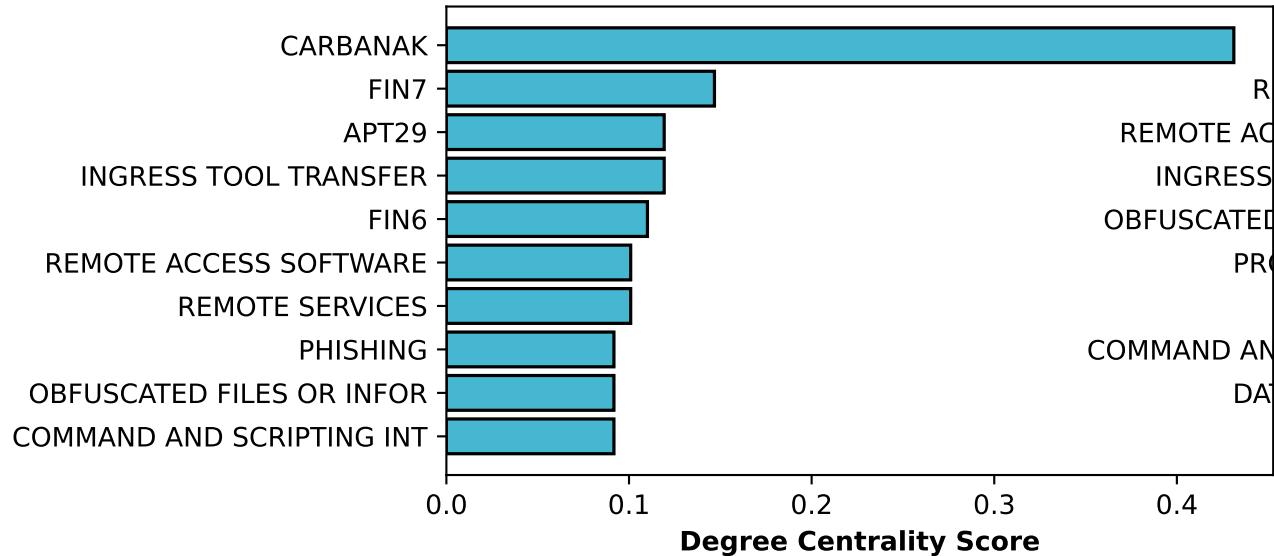Degree Centrality Distribution (Direct Connections)

Betweenness Centrality Distribution (Bridge Importance)

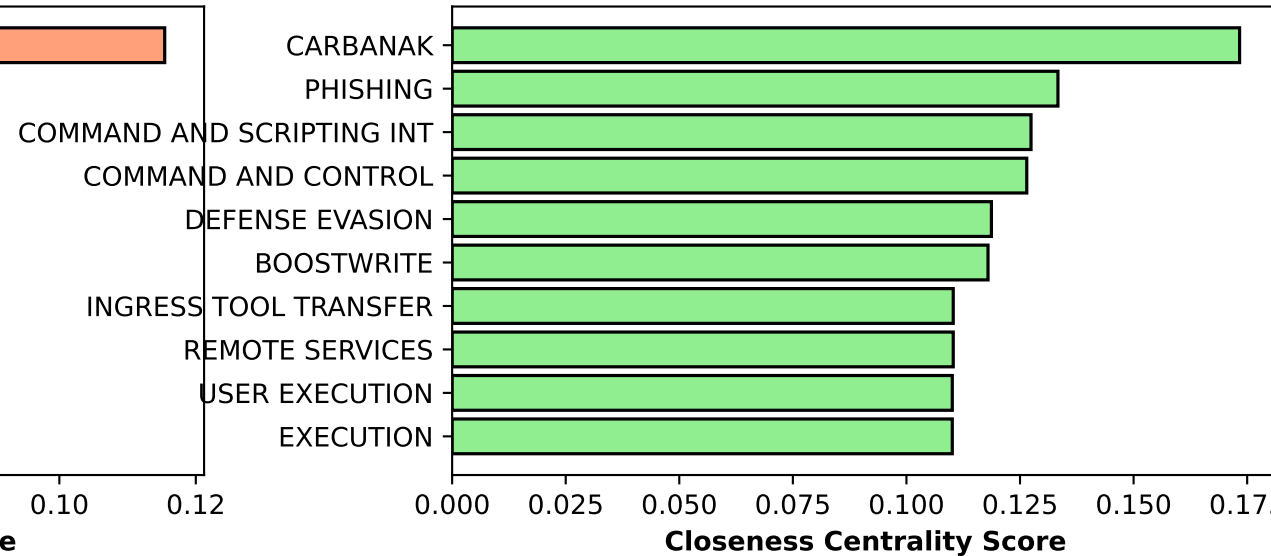Closeness Centrality Distribution (Proximity)

Top 10: Degree Centrality (Most Connected Hubs)
CARBANAK, FIN7, APT29, INGRESS TOOL TRANSFER, FIN6, REMOTE ACCESS SOFTWARE, REMOTE SERVICES, PHISHING, OBFUSCATED FILES OR INFOR, COMMAND AND SCRIPTING INT

Top 10: Betweenness Centrality (Critical Bridge Nodes)
CARBANAK, REMOTE SERVICES, REMOTE ACCESS SOFTWARE, INGRESS TOOL TRANSFER, OBFUSCATED FILES OR INFOR, PROCESS INJECTION, PHISHING, COMMAND AND SCRIPTING INT, DATA DESTRUCTION, DISK WIPE

Top 10: Closeness Centrality (Most Central Nodes)
CARBANAK, PHISHING, COMMAND AND SCRIPTING INT, COMMAND AND CONTROL, DEFENSE EVASION, BOOSTWRITE, INGRESS TOOL TRANSFER, REMOTE SERVICES, USER EXECUTION, EXECUTION

MITRE Tactic Coverage - Techniques per Tactic

Tactic	Technique Count
COMMAND AND CONTROL	10
DEFENSE EVASION	8
PERSISTENCE	6
EXECUTION	5
IMPACT	5
COLLECTION	4
INITIAL ACCESS	4
DISCOVERY	4
PRIVILEGE ESCALATION	4
EXFILTRATION	3
CREDENTIAL ACCESS	3
RESOURCE DEVELOPMENT	2
CREDENTIALS ACCESS	2
LATERAL MOVEMENT	1
COMMAND AND CONTROLE	1
RECONNAISSANCE	1
COMMUNICATION AND CONTROL	1