



• APT19 (DEEP PANDA)



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APT19 (DEEP PANDA) is a China-aligned, medium-high risk APT active since 2013, primarily conducting credential harvesting and access-driven espionage against government, technology, telecom, and defense targets worldwide.

IDENTITY



- Attribution** : Commonly assessed as a China-linked advanced persistent threat actor operating through contractor-based or hacking-for-hire structures aligned with state intelligence goals.
- Active Since** : ~2013 (earliest publicly documented campaigns).
- Aliases** : BRONZE FIRESTONE; Black Vine; Checkered Typhoon; Codoso; DEEP PANDA; G0009; G0073; Group 13; KungFu Kittens; PinkPanther; Pupa; Shell Crew; Sunshop Group; TEMP.Avengers; WebMasters
- Motivation** : Espionage-focused — access acquisition, credential harvesting, and downstream intelligence exploitation.

TTPs

- Initial Access**
- Spear-phishing emails delivering malicious attachments and credential-harvesting links.
 - Compromise of web servers and content management systems.
 - Deployment of web shells on hosting environments.
- Execution**
- Execution of lightweight backdoors and credential stealers.
 - Abuse of legitimate scripting and administrative tools.
 - Limited reliance on advanced privilege escalation exploits.
- Persistence**
- Web shell persistence on compromised servers.
 - Registry modifications and scheduled tasks on endpoints.
 - Long-term access maintained through stolen credentials.
- Command & Control (C2)**
- HTTP/HTTPS-based C2 channels.
 - Domains designed to mimic legitimate business or technology services.
 - Frequent infrastructure rotation and reuse of compromised servers.
- Lateral Movement & Collection**
- Credential reuse to access email, VPN, and cloud services.
 - Keylogging and browser credential dumping.
 - Selective lateral movement into high-value network segments.
- Exfiltration & Impact**
- Exfiltration of credentials, emails, and sensitive documents.
 - Indirect impact through credential resale or reuse by affiliated actors.
- Malware & Tools Observed**
- Custom backdoors associated with APT19 campaigns.
 - Multiple web shell variants.
 - Credential harvesting utilities and phishing frameworks.

TARGET PROFILE

- Primary Sectors** : Government and public sector organizations, technology and telecommunications firms, defense contractors, professional services.
- Secondary Sectors** : Managed service providers and hosting environments.
- Geographic Focus** : Global — United States, Europe, East Asia.

THREAT ASSESSMENT

- Risk Level** : MEDIUM-HIGH — access-driven espionage with cascading downstream risk.
- Recent Activity** : Continued credential harvesting and web compromise campaigns observed through 2023–2024.
- Evolution** : Progressed from overt phishing operations to quieter, persistence-oriented access brokerage.

NOTABLE OPERATIONS

• **2013–2015:** Early phishing and web shell campaigns targeting U.S. and European organizations.

• **2016–2017:** Large-scale compromise of managed service providers enabling access to multiple downstream victims.

• **2018:** Public indictments of APT19-associated operators involved in hacking-for-hire activity.

• **2019–2024:** Sustained lower-profile operations focused on credential harvesting and access maintenance.