



Emulating & Detecting Microsoft Breach [Midnight Blizzard] in CWL Cyber Range Lab

About CW Labs :

CW Labs is a renowned UK based Ed-tech company specializing in cybersecurity cyber range labs. They provide on-demand educational services and recognize the need for continuous adaptation to evolving threats and client requirements. The company has two primary divisions:

1. Cyber Range Labs
2. Up-Skilling Platform



INFINITE LEARNING EXPERIENCE

About Speaker :

Manish Gupta

Co-Founder & CEO at CW Labs Pvt. Ltd.

Manish Gupta is CEO of CyberWarFare Labs. Where he specializes in Red Teaming Activities on enterprise Environment. His Research interest includes Real World Cyber Attack Simulation and Advanced persistent Threat (APT). Previously he has presented his research at reputed conferences like **Blackhat USA, DEFCON, Nullcon, BSIDES Chapters, X33fcon, NorthSec, CanSecWest & other corporate trainings** etc.

Agenda

- **About Midnight Blizzard Breached**
- **Emulation**
- **Detection**
- **Thank You :)**

About Midnight Blizzard Breached

January 25, 2024



Microsoft Defender for Cloud Apps

Microsoft Defender XDR

Microsoft Entra

[more](#) ▾

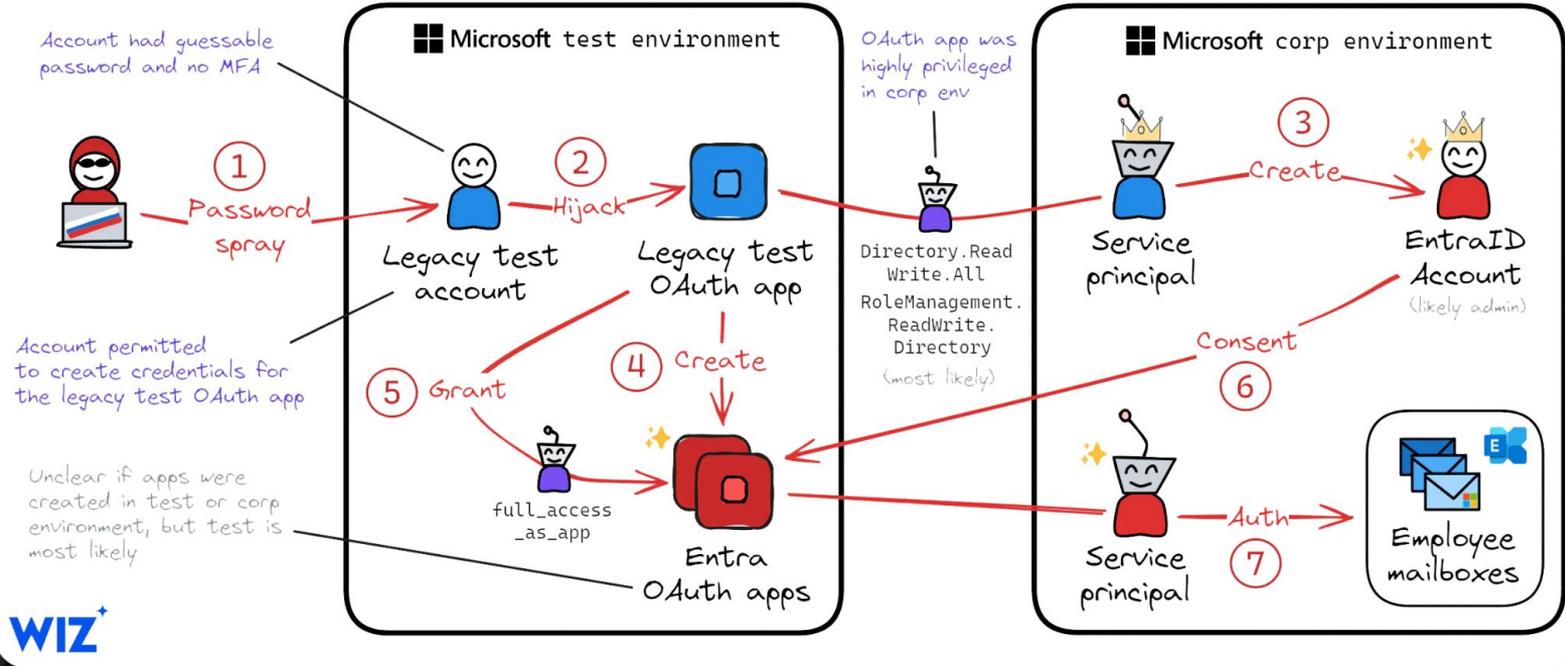
The Microsoft security team detected a nation-state attack on our corporate systems on January 12, 2024, and immediately activated our response process to investigate, disrupt malicious activity, mitigate the attack, and deny the threat actor further access. The Microsoft Threat Intelligence investigation identified the threat actor as [Midnight Blizzard](#), the Russian state-sponsored actor also known as NOBELIUM. The latest information from the Microsoft Security and Response Center (MSRC) is posted [here](#).

Emulation

- **Initial Access – Password Spray**
- **Persistence – New App Register**
- **Privilege Escalation – App API Permission**
- **Lateral Movement – Azure OAuth App Credential**

Emulation

❄️ Midnight Blizzard Exchange Online Exfiltration Campaign (estimated attack flow)



Ref <https://www.wiz.io/blog/midnight-blizzard-microsoft-breach-analysis-and-best-practices>

Detection

- **Creating new password of high privileged app**
- **Creating a new user and assigning high privilege role.**
- **Tenant wide admin consent**

Thank You

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/ Blue Team / Purple Team,
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