



Russian-made Remote Desktop Software Installed on Critical Infrastructure

Awake Security found Russian-made remote desktop protocol (RDP) software on the control server for a municipality's water treatment plant. The software which was communicating to its home base in Russia on a regular basis, enabled full outsider access to the chemical processes necessary to treat the water supply for a city of close to 100,000 people. In effect, an outsider could act with malicious intent and sabotage the water supply.

Awake automatically discovered the software since it triggered a couple of adversarial models, including one for data exfiltration and another for extended remote access. Awake's security expert system, Ava, concluded through autonomous triage that the behaviors were not normal for a critical server.

Awake also identified that this system was running an unpatched and unsupported version of Microsoft Windows 2003.

The FBI and Department of Homeland Security have issued multiple warnings about Russian actors targeting government entities and critical infrastructure sectors. Awake alerted the city's security team to the presence of the software, which allowed them to rapidly remediate the situation.

Industry

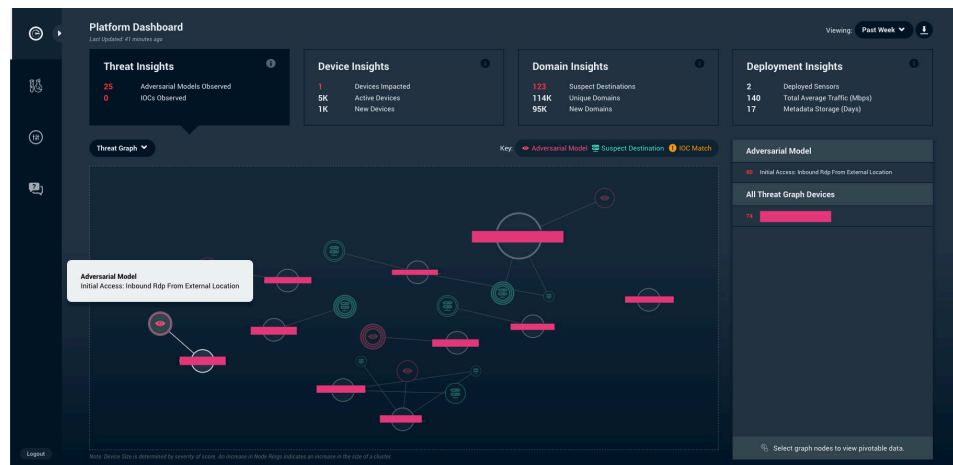
State, Local Government & Education

Attacker Objective

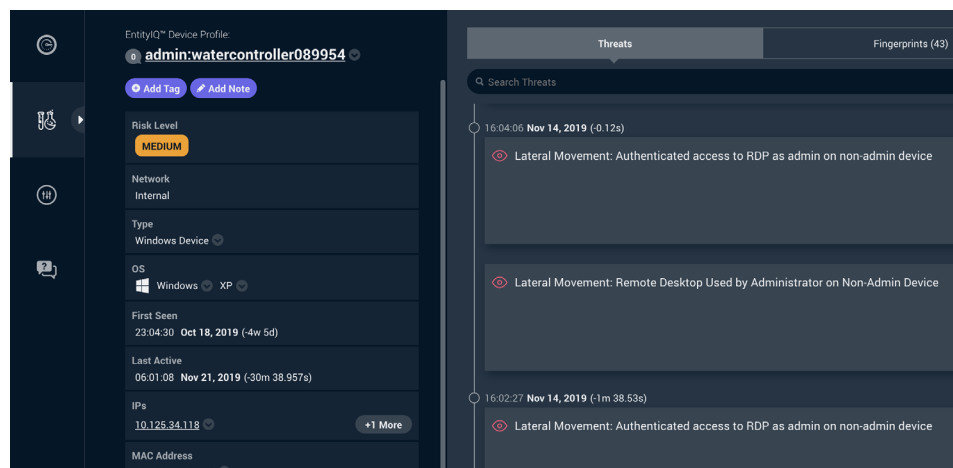
Attack and compromise of critical infrastructure

Awake detected this threat by:

- ✓ Detecting unusual communications to and from an external foreign entity and a critical infrastructure system
- ✓ Automatically identifying Russian-made software on the equipment.
- ✓ Highlighting the outdated software on this system that prevented it from being monitored, patched and managed by the security team.



Awake identified an unpatched device being used to control the water treatment plant with remote access from a foreign location.



Awake's EntityIQ™ tracked down an unpatched device being used to control the water treatment plant, and an adversarial model in combination with Ava™ confirmed remote access from a foreign location.