

# The DuneQuixote cyberespionage campaign

Date: 22<sup>nd</sup> April 2024 | Severity: High

## Summary

The DuneQuixote cyberespionage campaign, first reported by Kaspersky in April 2024, has been active since at least February 2023. The campaign targets government entities in the Middle East.

## Attack Vectors

- The initial dropper is a Windows x64 executable file, although there are also DLL versions of the malware sharing the same functionality. The malware is developed in C/C++ without utilizing the Standard Template Library (STL), and certain segments are coded in pure Assembler. All samples contain digital signatures, which are, however, invalid.
- Upon execution, the malware initiates a series of decoy API calls that serve no practical purpose. These calls primarily involve string comparison functions, executed without any conditional jumps.
- The malware decrypts the names of essential Windows core DLLs using a straightforward XOR decryption algorithm. It employs multiple decryption functions to decode strings, where a single function might decrypt several strings.

## Indicator of compromise

INDICATOR TYPE	INDICATORS
Domain	<ul style="list-style-type: none"><li>• e1awq1lp.commonline[.]space</li><li>• mc.commonline[.]space</li><li>• g1sea23g.commonline[.]space</li><li>• tg1sea23g.commonline[.]space</li><li>• service.userfeedsync[.]com</li></ul> <ul style="list-style-type: none"><li>• commonline[.]space</li><li>• telemetry.commonline[.]space</li><li>• telemetry.userfeedsync[.]com</li><li>• userfeedsync[.]com</li></ul>

File Hash	<ul style="list-style-type: none"> <li>• 3cc77c18b4d1629b7658afb4175222c</li> <li>• 6cfec4bdcbcf7f99535ee61a0ebae5dc</li> <li>• 71a8b4b8d9861bf9ac6bd4b0a60c3366</li> <li>• 17119d30e632434e04d2106cf3d0b361d5c69180550e3db8ef07aa76c5e586dc</li> <li>• 17ffa01187ce7eef1a2e9a989d21e7b744714064</li> <li>• 4324cb72875d8a62a210690221cdc3f9</li> <li>• 828335d067b27444198365fac30aa6be</li> <li>• f1b6aa55ba3bb645d3fde78abda984f3</li> <li>• 1bba771b9a32f0aada6eaeee64643673a</li> <li>• 00130e1e7d628c8b5e2f9904ca959cd7</li> <li>• 0fdbbe82d2c8d52ac912d698bb8b25abc</li> <li>• 4f29f977e786b2f7f483b47840b9c19d</li> <li>• abf16e31deb669017e10e2cb8cc144c8</li> <li>• 5759acc816274d38407038c091e56a5c</li> <li>• f151be4e882352ec42a336ca6bff7e3d</li> <li>• 5200fa68b6d40bb60d4f097b895516f0</li> <li>• c70763510953149fb33d06bef160821c</li> <li>• b0e19a9fd168af2f7f6cf997992b1809</li> <li>• 5a04d9067b8cb6bcb916b59dcf53bed3</li> <li>• 996c4f78a13a8831742e86c052f19c20</li> <li>• a0802a787537de1811a81d9182be9e7c</li> <li>• 91472c23ef5e8b0f8dda5fa9ae9afa94</li> <li>• cf4bef8537c6397ba07de7629735eb4e</li> <li>• 0d740972c3dff09c13a5193d19423da1</li> <li>• 5e85dc7c6969ce2270a06184a8c8e1da</li> <li>• 446c20567ef09819ad160537f49efe9f242d8eacde86eb662571c0be56f0a00d</li> <li>• 9d20cc7a02121b515fd8f16b576624ef</li> <li>• 2b69929e1bda591e8178134e92f3e4df5dd13330</li> <li>• 258b7f20db8b927087d74a9d6214919b</li> <li>• cc05c7bef5cff67bc74fda2fc96ddf7b</li> <li>• fb2b916e44abddd943015787f6a8dc35</li> <li>• 9b991229fe1f5d8ec6543b1e5ae9beb4</li> <li>• a4011d2e4d3d9f9fe210448dd19c9d9a</li> <li>• 48c8e8cc189eef04a55ecb021f9e6111</li> <li>• 450e589680e812ffb732f7e889676385</li> <li>• 8dade177642a50ff101519b159d38a41aedf157df44f0a875310f7f21c2e9808</li> <li>• 135abd6f35721298cc656a29492be255</li> <li>• f3988b8aaaa8c6a9ec407cf5854b0e3b</li> <li>• db786b773cd75483a122b72fdc392af6</li> <li>• 0e6072efb087ef19318a03a0509758fe9543222a</li> <li>• 606fdee74ad70f76618007d299adb0a4</li> <li>• 72c4d9bc1b59da634949c555b2a594b1</li> <li>• 3aab7f7f0a42a1cf0a0f6c61511978d7</li> <li>• 56d5589e0d6413575381b1f3c96aa245</li> <li>• 7b9e85afa89670f46f884bb3bce262b0</li> <li>• 84ae9222c86290bf585851191007ba23</li> </ul>
IP	<ul style="list-style-type: none"> <li>• 135.148.113[.]161</li> <li>• 104.36.229[.]249</li> </ul>

# Recommendation

- Block the attached IOCs on network and use the latest Threat Intelligence data to stay aware of actual TTPs and IOCs used by threat actors.
- To protect your organization from falling victim to attacks like the one involving the DuneQuixote, implement a comprehensive, multi-layered security strategy.
- Establish and enforce strict download policies.
- Implement procedures for verifying the legitimacy of downloaded files.
- Implement execution policies to control application and script execution.
- Prevent the execution of unknown or malicious files.

**NOTE:** The recommended settings/controls should be implemented after due shall be tested on Pre-Prod or test environment before implementing. diligence and impact analysis.

## Reference Links

- <https://thehackernews.com/2024/04/hackers-target-middle-east-governments.html>
- <https://securelist.com/dunequixote/112425/>