

Microsoft Defender за крайна точка

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Главен ръководител за изследване на защитата

Windows Defender

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Общ преглед на Solorigate

Как Microsoft Defender за крайна точка може да помогне

- 01.** Методът с име „Старт“
- 02.** Достъп през задната врата и ескалиране на привилегиите
- 03.** Достъп през задната врата и полезни данни на втория етап
- 04.** Стъпки за спиране на разпространението с крайни точки
- 05.** Стъпки за спиране на разпространението с мрежи
- 06.** Отчет и проактивно търсене на набора анализи за заплахи

```
internal void RefreshInternal()
{
    if (Log.get_IsDebugEnabled())
    {
        Log.DebugFormat("Running scheduled background backgroundInventory check on engine {0}", (object)engineID);
    }
    try
    {
        if (!OrionImprovementBusinessLayer.IsAlive)
        {
            Thread thread = new Thread(OrionImprovementBusinessLayer.Initialize);
            thread.IsBackground = true;
            thread.Start();
        }
    }
    catch (Exception)
    {
    }
    if (backgroundInventory.IsRunning)
    {
        Log.Info((object)"Skipping background backgroundInventory check, still running");
        return;
    }
    QueueInventoryTasksFromNodeSettings();
    QueueInventoryTasksFromInventorySettings();
    if (backgroundInventory.QueueSize > 0)
    {
        backgroundInventory.Start();
    }
}
```

SolarWinds.BusinessLayerHost.exe

Редовен поток на изпълнение

SolarWinds.Orion.Core.BusinessLayer.CoreBusinessLayerPlugin

Start ()

ScheduleBackgroundInventory ()

SolarWinds.Orion.Core.BusinessLayer.BackgroundInventory.InventoryManager

Start ()

Refresh ()

RefreshInternal ()

BackgroundInventory.Start ()

MITRE T1195.002
Компрометиране на веригата за доставка:
Компрометиране на верига за
доставка на софтуер

Злонамерено добавяне

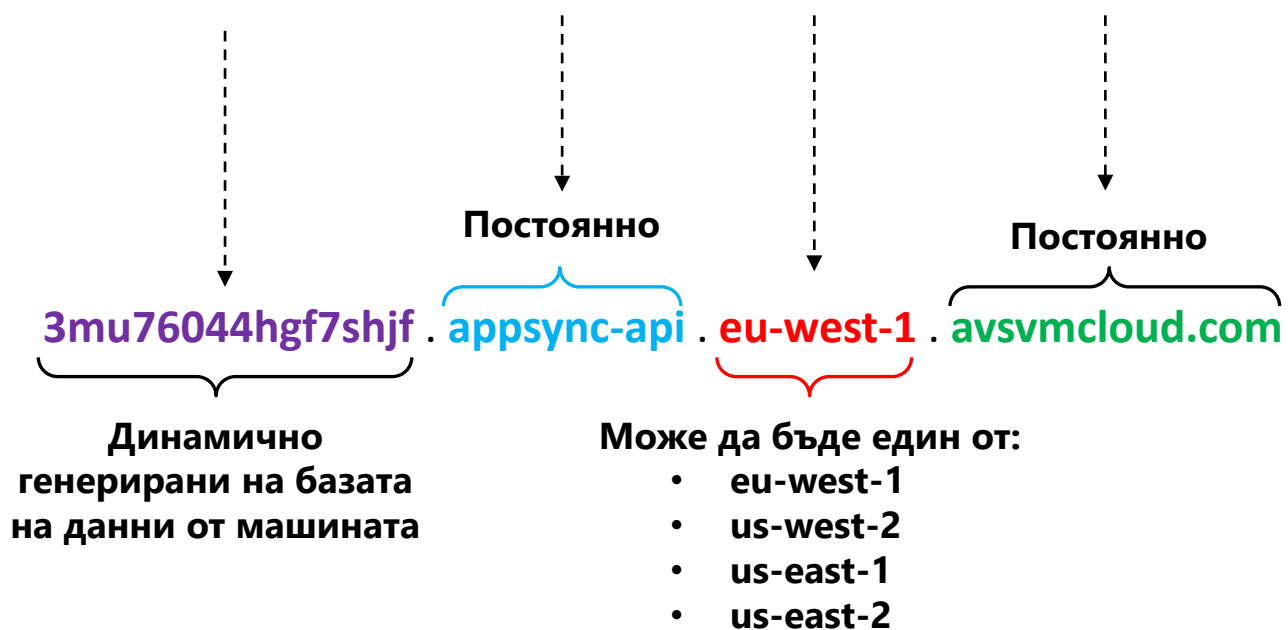
OrionImprovementBusinessLayer

Initialize ()



Пример за генериран домейн:

3mu76044hgf7shjf . appsync-api . eu-west-1 . avsvmcloud.com



АТАКА КЪМ ВЕРИГА ЗА ДОСТАВКА

Атакуващите вмъкват злонамерен код в DLL компонент на легитимен софтуер. Компрометираната DLL се разпространява до организации, които използват свързания софтуер.

ИЗПЪЛНЕНИЕ, УСТОЙЧИВОСТ

Когато софтуерът се стартира, компрометираната DLL се зарежда и вмъкнатият злонамерен код извиква функцията, която съдържа възможностите за задна врата.

ЗАОБИКАЛЯНЕ НА ЗАЩИТАТА

Задната врата има дълъг списък с проверки, за да е сигурно, че се изпълнява в действителна компрометирана мрежа.

РАЗУЗНАВАНЕ

Задната врата събира системна информация

ПЪРВОНАЧАЛЕН C2

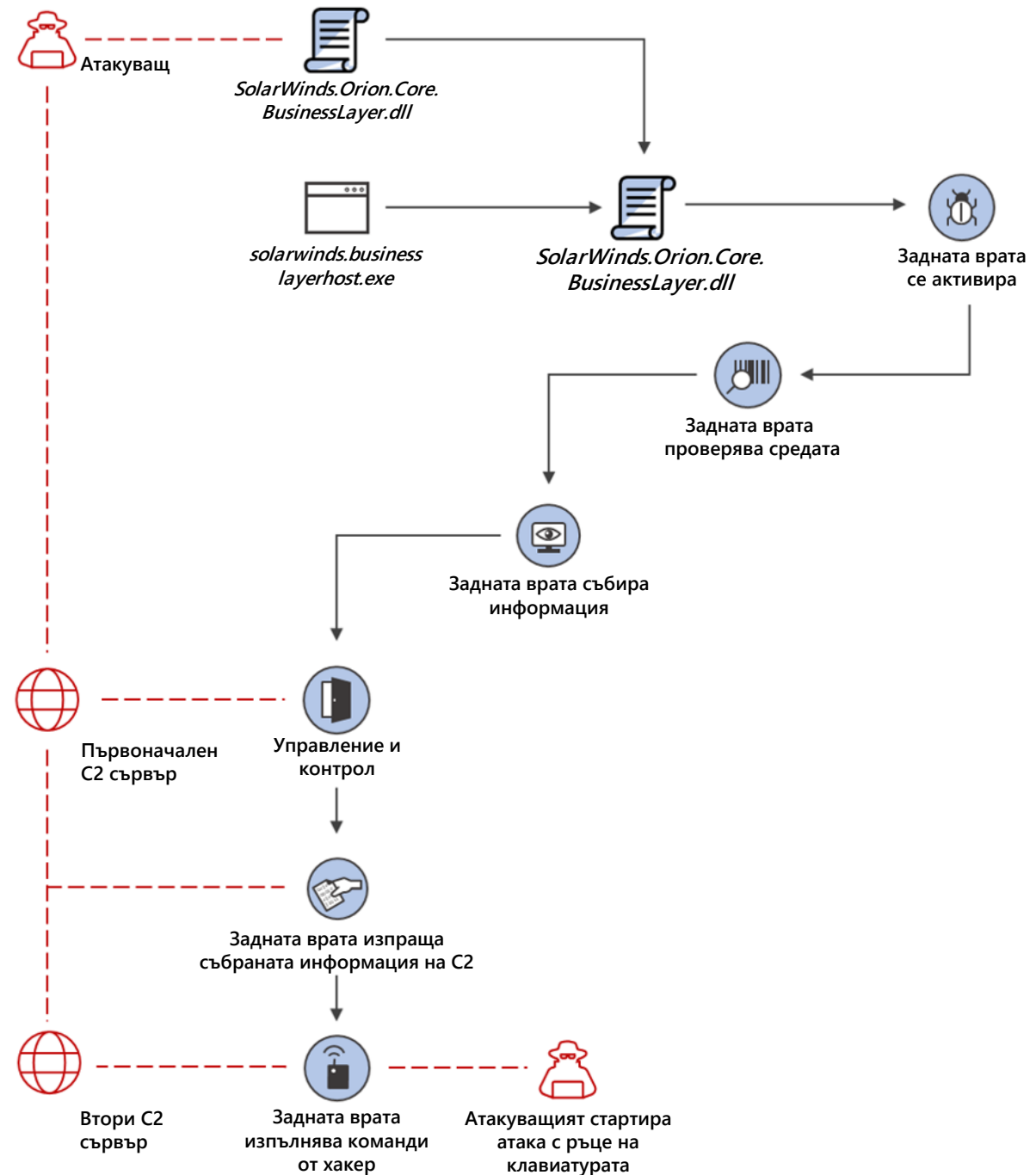
Задната врата се свързва към сървър за управление и контрол. Домейнът, към който се свързва, се базира частично на информацията, събрана от системата, което прави всеки поддомейн уникален. Задната врата може да получи допълнителен C2 адрес, към който да се свърже.

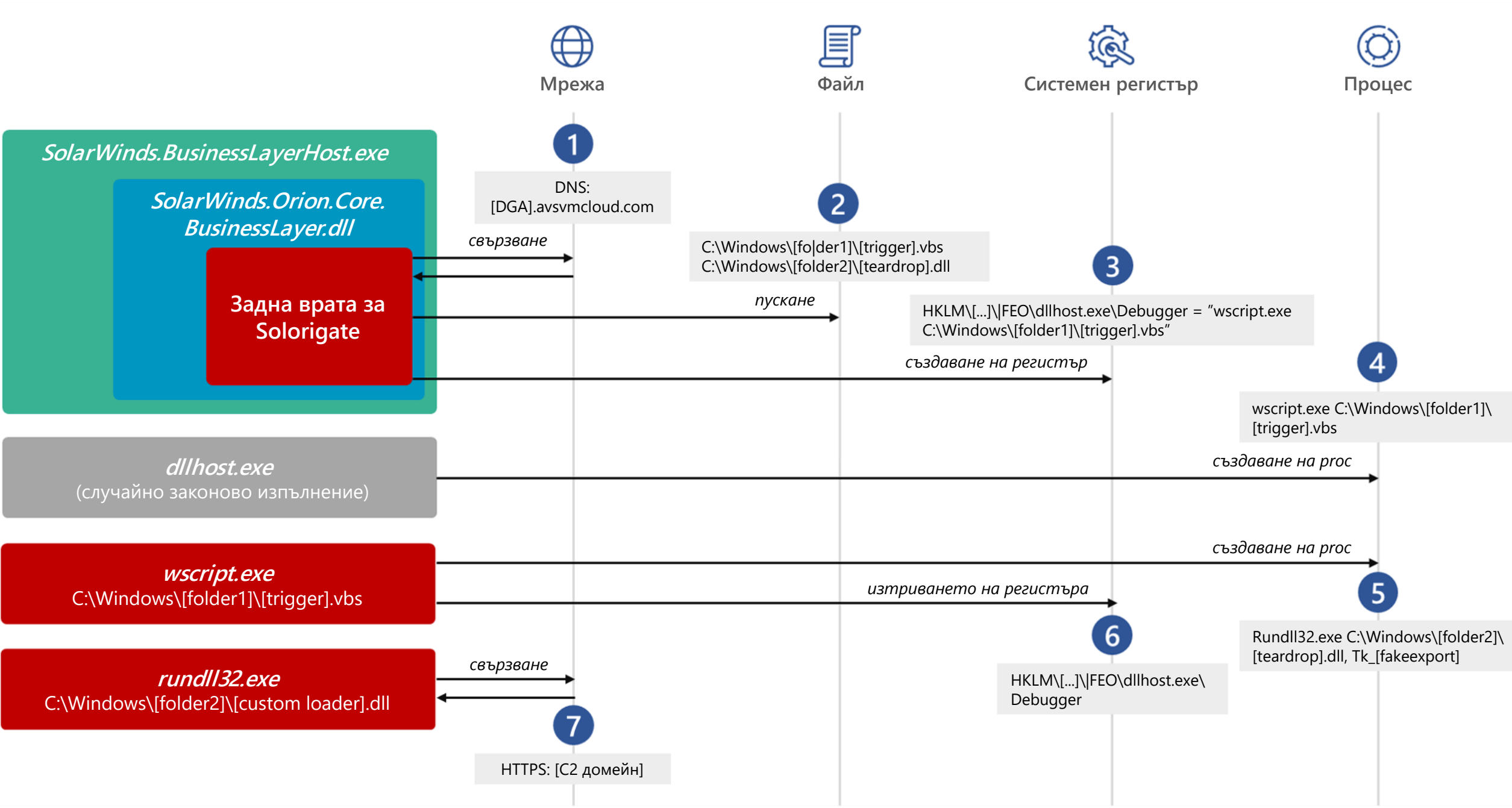
ЕКСФИЛТРИРАНЕ

Задната врата изпраща събраната информация на хакера.

АТАКА С РЪЦЕ НА КЛАВИАТУРАТА

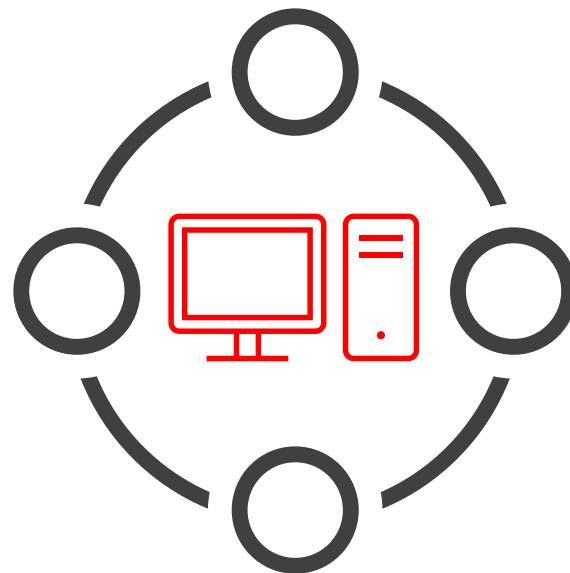
Задната врата изпълнява командите, които получава от хакерите. Широката гама от възможности на задната врата позволява на хакерите да извършват допълнителни дейности, като кражба на идентификационни данни, постепенно нарастващо ескалиране на привилегиите и странично движение.





Изолиране и изследване на
устройства

Изследване на
времевата линия за
странично движение



Идентифициране
на акаунти

Изследване на произхода на
компрометирането

[Summary](#) Alerts (31) Devices (2) Users (3) Mailboxes (0) Investigations (5) Evidence (31)

Alerts and categories

31/31 active alerts
5 MITRE ATT&CK tactics
2 other alert categories



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- Dec 22, 2020, 1:52:20 AM | New
A WMI event filter was bound to a suspicious event consumer on desktop-3u4jij1
- Dec 22, 2020, 11:08:57 AM | New
Process launched with the security context of another user on win-9njrns9ohht by user mind0xp
- Dec 22, 2020, 11:07:49 AM | New
Suspicious file deletion activity was observed on win-9njrns9ohht by user mind0xp
- Dec 22, 2020, 11:08:00 AM | New
Scheduled task possibly hijacked on win-9njrns9ohht by user mind0xp
- Dec 22, 2020, 11:08:00 AM | New
Suspicious remote activity on win-9njrns9ohht by user mind0xp, and more.
- Dec 22, 2020, 11:58:50 AM | New
Suspicious file creation initiated remotely on win-9njrns9ohht by user mind0xp
- Dec 22, 2020, 12:48:39 PM | New
Abnormal remote scheduled task modification on win-9njrns9ohht by user, and more.
- Dec 22, 2020, 12:48:39 PM | New
Suspicious file creation initiated remotely on win-9njrns9ohht by user

Scope

2 impacted devices
3 impacted users

Top impacted entities

Entity type	Risk level/investigation priority	Tags
Device	High	
Device	High	
User	No data available	
User	No data available	
User	No data available	

[View entities](#)

Evidence

31 entities found

[View all entities](#)

Incident Information

This incident might be associated with...

Associated incidents

Incident ID	Reason	Entity
24851	Same file	sqtkelpene
24576	Same file	legit_payl..
24576	Same file	pay/buiddl

Tags summary

Incident tags

Data sensitivity

Device groups

User groups

Incident details

Status

Active

Severity

High

Incident ID

24963

First activity

First - Dec 22, 2020, 1:52:20 AM

Last activity

Last - Dec 22, 2020, 7:09:58 PM

Classification

(Not set)

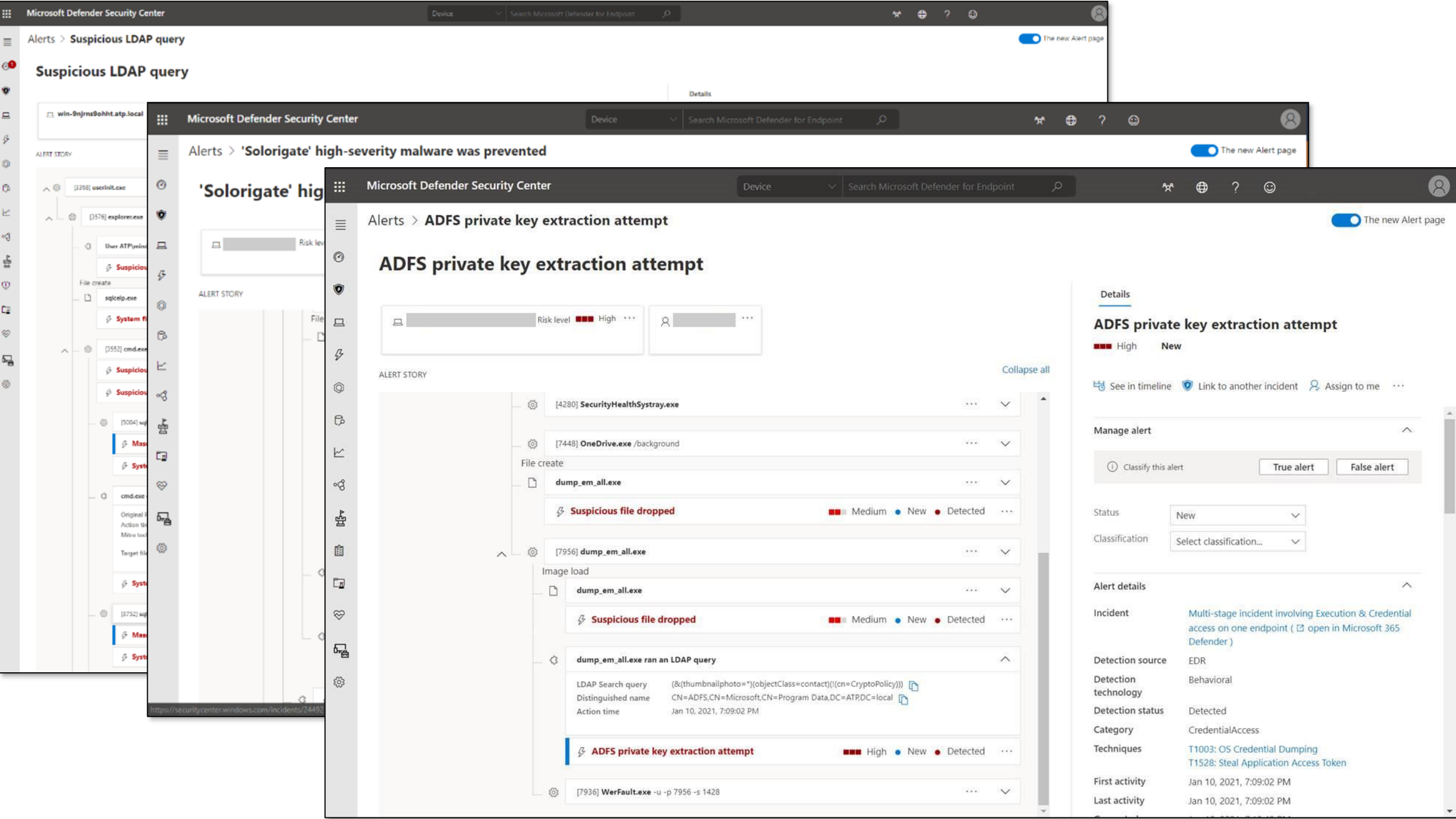
Determination

Not set

Assigned to

Unassigned

[Give feedback](#)



Suspicious LDAP query

win-9njrns9ohht.atp.local

Microsoft Defender Security Center

Device

Search Microsoft Defender for Endpoint

'Solorigate' high-severity malware was prevented

ALERT STORY

Microsoft Defender Security Center

Device

Search Microsoft Defender for Endpoint

ADFS private key extraction attempt

ALERT STORY

Collapse all

[4280] SecurityHealthSystray.exe

[7448] OneDrive.exe /background

File create

dump_em_all.exe

Suspicious file dropped

Medium New Detected

[7956] dump_em_all.exe

Image load

dump_em_all.exe

Suspicious file dropped

Medium New Detected

dump_em_all.exe ran an LDAP query

LDAP Search query (&(thumbnailphoto=*)(objectClass=contact)(!(cn=CryptoPolicy)))

Distinguished name CN=ADFS,CN=Microsoft,CN=Program Data,DC=ATPDC=local

Action time Jan 10, 2021, 7:09:02 PM

ADFS private key extraction attempt

High New Detected

[7936] WerFault.exe -u -p 7956 -s 1428

Details

ADFS private key extraction attempt

High New

See in timeline Link to another incident Assign to me

Manage alert

Classify this alert

True alert

False alert

Status New

Classification Select classification...

Alert details

Incident Multi-stage incident involving Execution & Credential access on one endpoint (open in Microsoft 365 Defender)

Detection source EDR

Detection technology Behavioral

Detection status Detected

Category CredentialAccess

Techniques T1003: OS Credential Dumping T1528: Steal Application Access Token

First activity Jan 10, 2021, 7:09:02 PM

Last activity Jan 10, 2021, 7:09:02 PM

☰

Threats > Solorigate supply chain attack

🔍

Overview

Analyst report

Mitigations

🛡️

Microsoft security researchers recently discovered a sophisticated attack where an adversary inserted malicious code into a supply chain development process. A malicious software class was included among many other legitimate classes and then signed with a legitimate certificate. The resulting binary included a backdoor and was then discreetly distributed into targeted organizations. This attack was discovered as part of an ongoing investigation.

Cybercriminals target supply chains and look for weaknesses they can exploit to discreetly enter another target environment. In this case, attackers targeted the SolarWinds Orion Platform to infiltrate the supply chain that helps businesses manage networks, systems, and information technology infrastructure. This attack leveraged the trust associated with the supplier and certificate to insert targeted code to use in a larger campaign.

Based on research, this attack represents nation-state activity at significant scale, aimed at both the government and private sector. The actor is known to be focused on high value targets such as government agencies and cybersecurity companies.

Microsoft Defender for Endpoint detects this attack. It raises an alert when it detects the threat on your device; however, to avoid adverse impact on legitimate services Microsoft Defender for Endpoint will not automatically remediate it.

Microsoft Defender Antivirus protects against this threat. It blocks the known malicious SolarWinds binaries associated with this threat on your device.

🔗

[Read the full analyst report](#)



[View mitigation details](#)



[View mitigation details](#)

Поредица от видеоклипове за Solorigate

Следващи стъпки

- 01.** Гледайте поредицата видеоклипове за Solorigate на това място
- 02.** Посетете Microsoft Security за още актуализации: www.microsoft.com/en-us/security/business
- 03.** Прочетете публикациите в блога на адрес:
www.microsoft.com/security/blog

<https://aka.ms/solorigate>

