Making SBOMs work for everyone

Paris - June 2023













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Class="Container"> Class="Container">
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                                                                                    <h1>One more for good measure.
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       97
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       98
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101
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102
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104
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106
                                                              <span class="sr-only">Next</span>
107
                                                       </a>
108
                                            </div><!-- /.carousel -->
109
                         <!--Featured Content Section-->
110

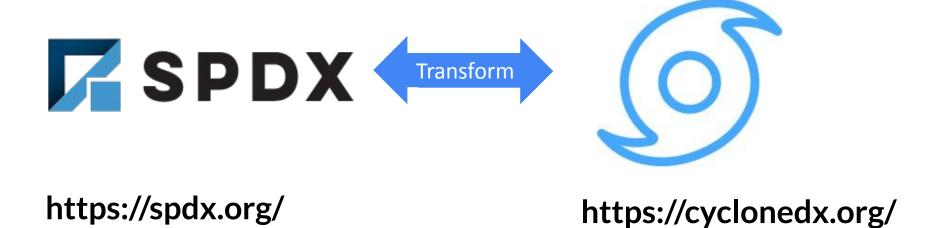
<pre
111
                                   <div class="container">
112
                                            <div class="row">
 113
                                                            <div class="col-md-4"></div>
 114
 115
```

What is an SBOM?

- → A SBOM is a **formal set of machine-readable metadata** describing your software application
- → SBOMs are designed to be shared within and across organizations

→ SBOMs form an important part of a software risk strategy

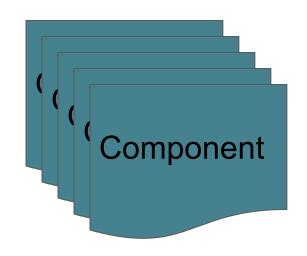
Two primary standards and formats....

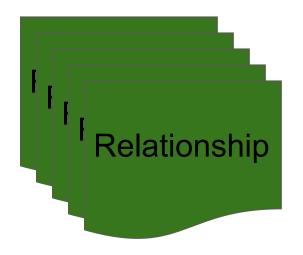




SBOM Content

SBOM Metadata



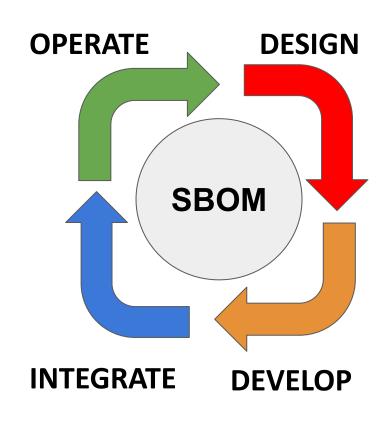


Increasing awareness of SBOMs



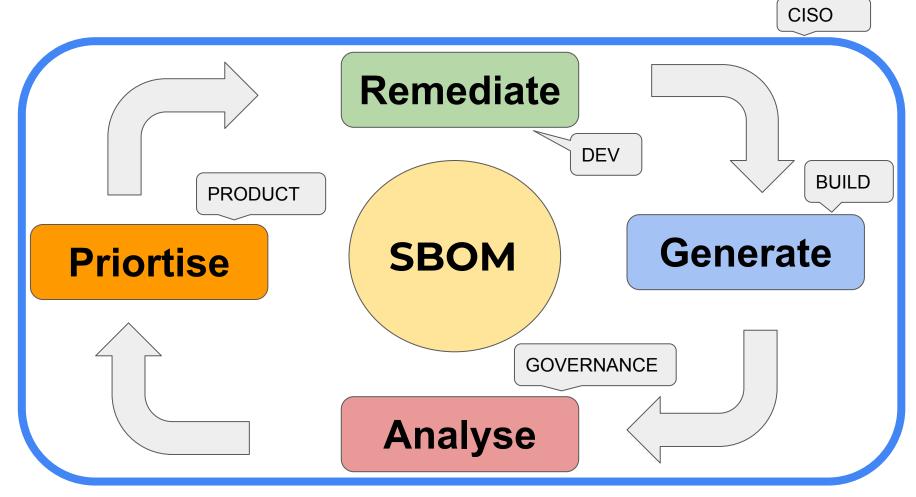
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SBOMs are used throughout the lifecycle



- 3rd party component selection
- Source files in build
- Applications built
- Component dependencies
- Build composition
- Build integrity
- License Compliance
- Change Management
- Vulnerability Monitoring
- Obsolete software detection

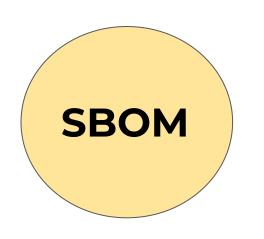




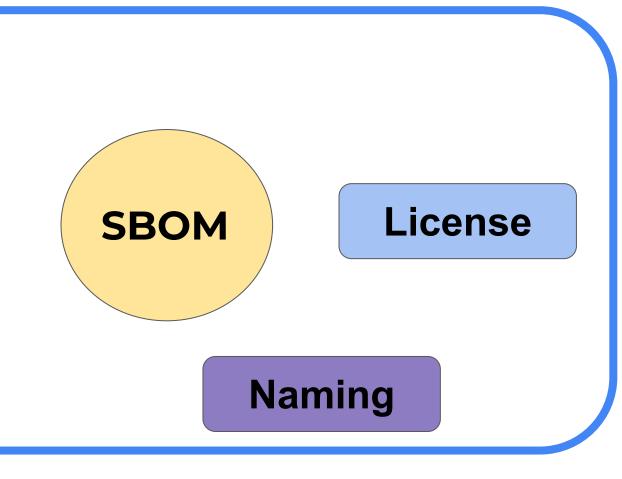




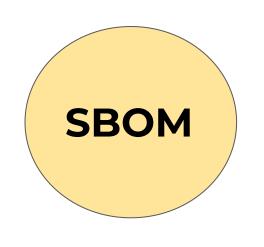
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License





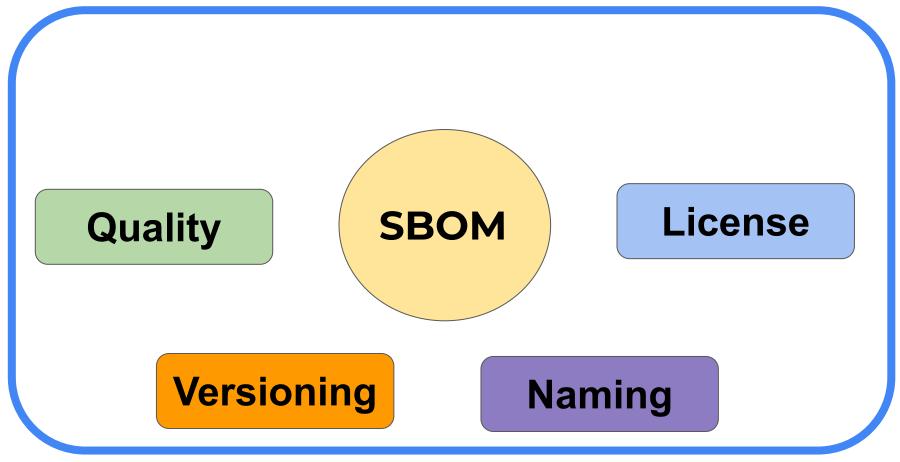


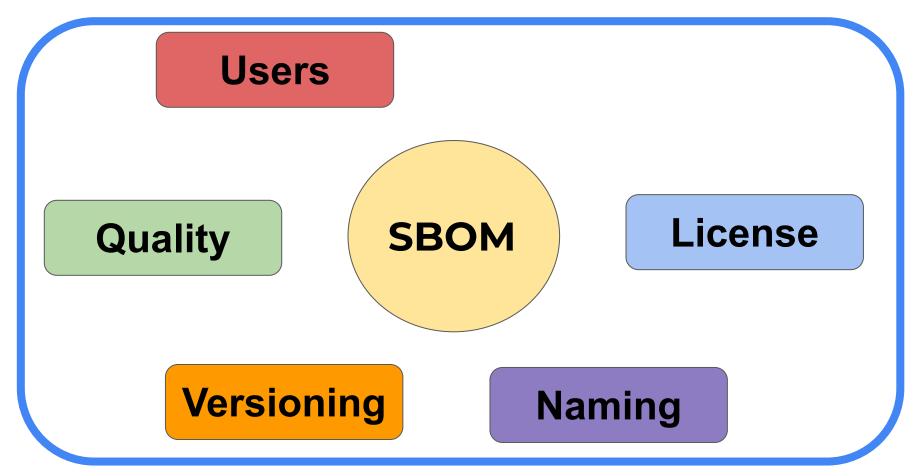
License

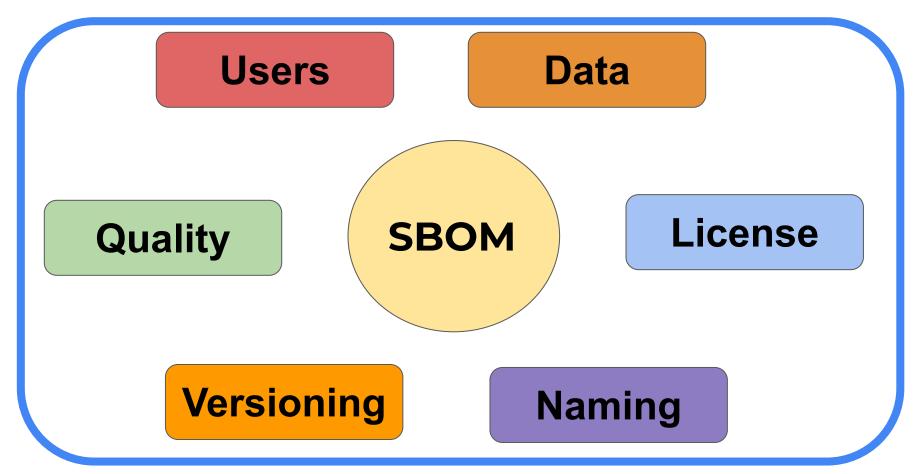
Versioning

Naming





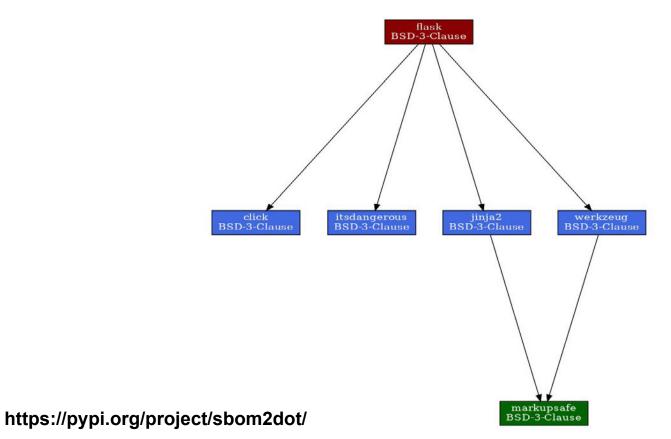




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Package Summary
[ ] License included for package attrs: MISSING
[ ] License included for package idna: MISSING
[ ] OSI Approved license for defusedxml: MISSING
[ ] Using latest version of package httplib2: Version is 0.20.4; latest is 0.22.0
[ ] License included for package pyparsing: MISSING
[ ] Using latest version of package rsa: Version is 4.7.2; latest is 4.9
[ ] Using latest version of package pyopenssl: Version is 23.1.1; latest is 23.2.0
[ ] OSI Approved license for cryptography: MISSING
[ ] Using latest version of package google-auth: Version is 2.18.1; latest is 2.19.1
[ ] Using latest version of package cachetools: Version is 5.3.0; latest is 5.3.1
[ ] Using latest version of package urllib3: Version is 1.26.15; latest is 2.0.2
[ ] OSI Approved license for packaging: MISSING
[ ] Using latest version of package packaging: Version is 21.3; latest is 23.1
[ ] Using latest version of package requests: Version is 2.30.0; latest is 2.31.0
[ ] Using latest version of package rich: Version is 13.3.5; latest is 13.4.1
   NTIA compliant: FAILED
```

https://pypi.org/project/sbomaudit/







SBOM Summary

Item	Details		
SBOM File	/tmp/click.json		
SBOM Type	cyclonedx		
Version	1.4		
Name	Python-click		
Creator	tool:sbom4python		
Created	2023-03-02T11:58:30Z		
Files	0		
Packages	1		
Relationships	1		

Package Summary

Name	Version	Supplier	License	
click	8.1.2	Armin Ronacher	BSD-3-Clause	

License Summary

License	Count	
BSD-3-Clause	1	

https://pypi.org/project/sbom2doc/





sbom-managermodul	e pyyaml Project	Description	Product	Version	License
matcha-ml.spdx cve-bin-tool-py3 sbom4python.spdx	Matcha-ML Release_3.2.1 sbom4python	Release 2.3 Not specified Release 0.8.0	pyyaml pyyaml pyyaml	5.4.1 6.0 6.0	MIT MIT MIT
sbom-managermodul No data found	e log4j				

https://pypi.org/project/sbom-manager/



SBOMs provide an important part of the secure software development lifecycle

SBOMs provide enhanced **transparency** and **dependency management**

SBOMs provide a key role to supporting better **risk management**



SBOMs are only as good as the data which is provided. Everyone is responsible for improving this data.



info@aph10.com

https://www.linkedin.com/in/anthonypharrison/

https://www.linkedin.com/company/aph10/

https://github.com/anthonyharrison

