

A close-up, low-angle shot of a golden wheat field under bright, warm sunlight. The wheat stalks are in sharp focus in the foreground, with a soft, blurred background of more wheat and a bright, hazy sky. The overall color palette is warm, dominated by yellows, oranges, and soft whites.

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ONAP SECCOM retrospectives

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Agenda

- Log4j fix implementation in Istanbul Maintenance Release
- Jakarta security status update

Log4j story... 1/2

- Log4j related vulnerabilities revealed in December'21 emphasized the challenges in open source supply chain management.
- Upon Security Subcommittee request, ONAP community agreed to reprioritize efforts and develop a dedicated Istanbul Maintenance release that upgraded vulnerable Log4j versions to latest greatest 2.17.1.
- Based on commercial NEXUS IQ tool used in ONAP for Software Composition Analysis (SCA) with weekly Jenkins jobs scans results reports, jira tickets were created for four ONAP projects that were affected with Log4j direct dependencies.
- So how did it go? The individual projects were efficient at upgrading to log4j 2.17.1 and one project was able to remove a vulnerable repository from the release because its functionality was no longer needed.
- Unfortunately, there were delays. It took some time for ONAP Operations Manager project to merge the code.
- Furthermore, while waiting for the merge, we observed a major failure in CI/CD automation pipeline causing problem with SCA reports generation. It took 19 days plus escalations for LFN IT to solve the problem. In the end we were able to use the final scan output to show that none of the ONAP projects had log4j direct dependencies.

- The project teams discovered false positives in the Nexus IQ output, labeling some transitive dependencies as direct. These were manually whitelisted, and a ticket was opened with Sonatype, the Nexus IQ vendor, to address the false positives.
- The dependency inherited from OpenDayLight (ODL), an LFN project used in two ONAP projects, had to be resolved by ONAP developers because the ODL version with the log4j fix was delivered too late for the ONAP release.
- The final step was for each project to document the fixes and transitive dependencies in the Release Notes. Creating documentation jira tickets for each project was helpful in tracking progress. The Istanbul Maintenance release was publicly available end of March'22...
- Could we make it faster?
 - **with SBOM in place** we would know easily which projects are using directly log4j, faster merge and faster resolution of failing SCA scan jobs would definitely speed up the final check, and more focus on documentation would make us release faster as well. Last but not least, having an automated repo upgrade process in place would solve the issue "on the fly"... We learn, we adjust, we improve.

- [REQ-1067](#) COMPLETION OF PYTHON LANGUAGE UPDATE (v2.7 → v3.8) [link to scan](#)

No	Project's jira	Status	Comment
1	VFC-1915	Closed	Merge done
2	VFC-1914	Closed	Filebeat related
3	DCAEGEN2-3020	Closed	Cloudify components migrated to Python 3.6
4	OOM-2900	Open	Cassandra
5	INT-2034	Open	Robot

Jakarta security status update – GR 2/4

- [REQ-1068](#) COMPLETION OF JAVA LANGUAGE UPDATE (v8 → v11) – [link to scan](#)

No	Project's jira	Status	Comment
1	AAI-3413	closed	Exceptions: java 8 due to the janusgraph dependency
2	DCAEGEN2-3019	closed	Exceptions: upstream NIFI base images are still built on java8
3	SDNC-1651	closed	Fixed in Istanbul
			Cassandra – upstream container
			Umaintained: message-router, msb-discovery, msb-eag, msb-iag
			srinzi-zk-entrance – OOM related

- [REQ-1066](#) CONTINUATION OF PACKAGES UPGRADES IN DIRECT DEPENDENCIES
 - 299 recommended package upgrades
 - 73% of upgrades completed or requested waiver
 - 179 completed (60%)
 - 38 waivers requested and recommended (13%)
 - 82 updates not addressed
 - 4 projects did zero updates
 - 1 large project completed about half the updates

Jakarta security status update – GR 4/4

REQ-1069 CONTINUATION OF CII BADGING SCORE IMPROVEMENTS FOR SILVER LEVEL

- Improvements in Passing, Silver and progress to Gold
- Top five projects (50-83% towards Gold Badge): DCAE Runtime, Policy, DCAE, VVP and CPS

Release Statistics [□]

Level		R1 Amsterdam 2				R2 Beijing 31				R3 Casablanca 30				R4 Dublin 30				R5 El Alto 30				R6 Frankfurt 39				R7 Guilin 39				R8 Honolulu 39				R9 Istanbul 42				current 42							
		#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %	#	%	+ #	+ %								
Gold	100%	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	80-100%	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
	60-80%	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	1	3.3	1	2.6	1	2.6	1	2.6	1	2.6	1	2.6	1	2.6	2	4.8	2	4.8	2	4.8	3	7.1				
	40-60%	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	1	3.3	2	6.7	2	6.7	3	10.0	4	13.3	5	12.8	6	15.4	6	15.4	7	17.9	7	17.9	8	20.5	7	16.7	9	21.4	6	14.3	9	21.4				
	20-40%	0	0.0	0	0.0	0	0.0	0	0.0	4	13.3	5	16.7	3	10.0	5	16.7	8	26.7	12	40.0	10	25.6	16	41.0	11	28.2	18	46.2	12	30.8	20	51.3	14	33.3	23	54.8	14	33.3	23	54.8				
	0-20%	2	100.0	2	100.0	31	100.0	31	100.0	25	83.3	30	100.0	25	83.3	30	100.0	18	60.0	30	100.0	23	59.0	39	100.0	21	53.8	39	100.0	19	48.7	39	100.0	19	45.2	42	100.0	19	45.2	42	100.0				
Silver	100%	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	1	3.3	2	5.1	2	5.1	3	7.7	3	7.7	2	5.1	2	5.1	4	9.5	4	9.5	5	11.9	5	11.9				
	80-100%	0	0.0	0	0.0	0	0.0	0	0.0	7	23.3	7	23.3	9	30.0	9	30.0	14	46.7	15	50.0	21	53.8	23	59.0	21	53.8	24	61.5	25	64.1	27	69.2	28	66.7	32	76.2	28	66.7	33	78.6				
	60-80%	0	0.0	0	0.0	0	0.0	0	0.0	4	13.3	11	36.7	4	13.3	13	43.3	6	20.0	21	70.0	6	15.4	29	74.4	6	15.4	30	76.9	6	15.4	33	84.6	4	9.5	36	85.7	3	7.1	36	85.7				
	40-60%	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	12	40.7	1	3.3	14	46.7	1	3.3	22	73.3	1	2.6	30	76.9	3	7.7	33	84.6	2	5.1	35	89.7	2	4.8	38	90.5	2	4.8	38	90.5				
	20-40%	0	0.0	0	0.0	0	0.0	0	0.0	1	3.3	13	43.3	3	10.0	17	56.7	3	10.0	25	83.3	5	12.8	35	89.7	4	10.3	37	94.9	2	5.1	37	94.9	2	4.8	40	95.2	2	4.8	40	95.2				
	0-20%	2	100.0	2	100.0	31	100.0	31	100.0	17	56.7	30	100.0	13	43.3	30	100.0	5	16.7	30	100.0	4	10.3	39	100.0	2	5.1	39	100.0	2	5.1	39	100.0	2	4.8	42	100.0	2	4.8	42	100.0				
Passing	100%	0	0.0	0	0.0	8	25.8	8	25.8	13	43.3	13	43.3	26	86.7	26	86.7	26	86.7	26	86.7	35	89.7	35	89.7	35	89.7	35	89.7	34	87.2	34	87.2	37	88.1	37	88.1	38	90.5	38	90.5				
	80-100%	2	100.0	2	100.0	23	74.2	31	100.0	17	56.7	30	100.0	4	13.3	30	100.0	4	13.3	30	100.0	3	7.7	38	97.4	4	10.3	39	100.0	5	11.9	42	100.0	4	9.5	42	100.0								
	60-80%	0	0.0	2	100.0	0	0.0	31	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	38	97.4	0	0.0	39	100.0	0	0.0	42	100.0	0	0.0	42	100.0								
	40-60%	0	0.0	2	100.0	0	0.0	31	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	38	97.4	0	0.0	39	100.0	0	0.0	42	100.0	0	0.0	42	100.0								
	20-40%	0	0.0	2	100.0	0	0.0	31	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	38	97.4	0	0.0	39	100.0	0	0.0	42	100.0	0	0.0	42	100.0								
	0-20%	0	0.0	2	100.0	0	0.0	31	100.0	0	0.0	30	100.0	0	0.0	30	100.0	0	0.0	30	100.0	1	2.6	39	100.0	0	0.0	39	100.0	0	0.0	42	100.0	0	0.0	42	100.0								

Jakarta security status update – improvements

- RACI chart for unmaintained projects
 - proposed process related to technical debt
- Automating the process to mitigate security threats quicker
 - Removed a lot of manual work, saved a lot of time

A close-up, shallow depth-of-field photograph of golden wheat stalks, with the foreground in sharp focus and the background softly blurred. The warm, golden light suggests a sunrise or sunset setting.

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