



Information Technology
& Data Analytics

DevSecOps & Automation – EP&S

Monthly Report Out - March 2024

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2024 OKR AND FOCUS AREAS

DevSecOps

- 1- Improve maturity for business critical applications to Level 3 (minimum).- focus on 10% of applications (50) that have completed Assessment.
- 2- Focus on DevSecOps maturity for apps already in cloud or plan to move in 2024
- 3- Complete assessment for product with highest ROI - 20% Remaining Apps.
- 4- Build Reusable libraries from learnings and success stories
- 5- Training and Upskilling sessions for team (3 per Quarter)
- 6- Pilot projects with Software chapter team to improve maturity

Automation

- 1- Improve Automation efficiency high ROI Products and bring product efficiencies.
- 2- Overall savings of 140K Hrs
- 3- Build Lean practices and automation for Compliance , TechDebt and Compute

High ROI products for focus:

- Jennifer
 - Regulatory and Safety
- Tatum
 - System Engineering
 - Electrical Engineering
 - Customer Engineering (CE)
- Buba
 - Digital Market Products
 - Technical Publications
- Jeff
 - Embedded Program Support
 - Product Support Analysis

PROGRESS

Objectives – E&PS

- ❑ **Automation Savings 2024: 140K Hrs.**
- ❑ **DevSecOps Assessments: 130 Apps**
- ❑ **DevSecOps Maturity Improvement - 50 Apps**
- ❑ **Upskill Sessions - 12**

Highlights & Look Ahead

- ❑ Focal working with product team to work on prioritizations
- ❑ Pilot project:
 - ❑ DORA Metrics integration.
 - ❑ McKinsey POC for CE & Electrical
- ❑ Upcoming sessions planned Q2
- ❑ Build Reusable libraries from learnings and success stories
- ❑ Tableau Dashboard [LINK](#)

Status

- ❑ Automation Savings Achieved : **23577 Hrs.**
- ❑ DevSecOps Assessments :
 - ❑ Completed - 4
 - ❑ In-Progress(Roadmap Pending) - 36
- ❑ DevSecOps Maturity Improvements (Re-assessments)
 - ❑ Completed - 1
 - ❑ In-Progress(Roadmap Pending) - 9
- ❑ Upskill Sessions
 - ❑ Completed - 2
 - ❑ Scheduled - 2

Help Needed

- ❑ Prioritization on DevSecOps adoption in products
- ❑ Automation Savings updates on COP

ENGINEERING PROGRESS

				2024 Target			2024 Actuals				
Director	Product Name	Application #	Total assessments Completed	Assessments	Reassessments	Automation Savings Target (P0000)	DSO Focal Assigned	Assessments		Reassessments	
							Primary Focal	Completed	In-Progress	Completed	In-Progress
Jennifer	TOTAL	177	39	27	6				7		1
	Regulatory and Safety	29	12	3	2	1100	Radhakrishnan, Chinjumol		2		
	Research and Technology	11	9		1		Singh, Abhishek K				
	Test and Evaluation	43	14	7	2		Jha, Ravi N		5		1
	IPDM PLM	94	4	17	1		Singh, Omji Kunjbihari				
Tatum	TOTAL	333	149	56	22			3	10	1	3
	Authoring Process Planning	27	16	1	2		Urimindi, Sreenivasulu		2		
	Data Distribution and Management	57	19	8	3		Mohiddin Basha, Mahammed Gulam	1	2		1
	Automation Programming	24	4	4	1		Chougule, Priyanka Dhanpal		1		
	Customer Engineering (CE)	9	0	2	0		Nair, Aathira Manikandan	1	1		
	3DX PLM	12	14	1	2		Kaur, Harmeet				
	Electrical Engineering	44	6	11	1		K L, Bharath	1		1	1
	Flight Engineering and Propulsion	51	62	14	9		Vinod, Thomas				
	Mechanical and Structural Engineering	50	6	8	1		P, Ashwini		2		
	Systems Engineering	46	5	6	1	11224	Prabhat, Kumar				1
	Production System Simulation	1	1						2		
	Visualization and xR	12	16	1	2		Rompicherla, Rakesh				
	TOTAL	510	188	83	28	12324		3	17	1	4

PRODUCT SUPPORT PROGRESS

				2024 Target			2024 Actuals				
Director	Product Name	Application #	Total assessments Completed	Assessments	Reassessments	Automation Savings Target (70000)	DSO Focal Assigned	Assessments		Reassessments	
							Primary Focal	Completed	In-Progress	Completed	In-Progress
Buba	TOTAL	147	70	20	10	35000	-		10		4
	Digital Market Products	43	22	6	3		Popeck (US), John		6		1
	Customer Operations	24	16	2	2		Balraj, Bharath K		3		2
	Technical Publications	55	23	7	4		Kandan, Narendran		1		1
	Training & Other	25	9	5	1		Rooge, Padma Prasad				
Jeff	TOTAL	226	76	30	12	35000		1	9		1
	Automation Programming	26	26		4		H D, Sarika				
	Innovation Hub										
	Material Management	20	9	3	1		Jenkins (US), Renee M		3		
	Maintenance Repair and Overhaul	27	12	3	2		Fink (US), Brendan A		2		
	Integrated Logistics Planning and Management	33	11	5	2		Nadampalli Kumarraju, Lavanya	1	1		
	Product Support Analysis	31	7	5	1		Varghese, Jessy				
	Embedded Program Support	89	11	14	2		Amaragatti, Sharanappa		3		1
	TOTAL	373	146	50	22	15087		1	19		5

POC STATUS



CODE WHISPERER UPDATES

Background

Boeing is evaluating Amazon Web Services (AWS) CodeWhisperer through a Proof of Concept exercise with the intent of implementing the tool in various business operations.

Goal

To validate and understand the use cases and terms of service of the tool while also measuring the efficiency of the code generated

Objective

Test several use cases and quantify the impact on accuracy and productivity across different functions within various software engineering teams, looking at its applicability within an operational context. Also, identify the critical safety concerns and potential hazards.

Teams from IT&DA M&Q, DPACS, Software Engineering, and BR&T Math formed to evaluate

Use Cases in Work

- Code coverage for unit test case
- Actual business usecase like NIMT, Redars line darkening
- Legacy application automated test case
- Creating UI frontend code & unit test cases for Vue.JS application
- Explore the Coverity high and medium security scanning
- Oracle form migration . Customer engineering
- Gen AI web app Evaluation
- BGS DAS Platform
- Product Standards

TECHNICAL SESSION



TECHNICAL SESSION DETAILS

No.	Topic	Presenter Name	Date	Trainings Links
1	Software Composition Analysis	Sushil Mishra	12 th March, 2024	Completed Session Recording
2	Containerization, Dockers and Deployment on Cloud	Siddharth Muttin	20 th March, 2024	Completed Session Recording
3	Deploy self-hosted Azure agent on OpenShift	Sumeet Kumar	17 th April	Enrollment open Click here
4	Deploy Selenium grid on OpenShift for test cases execution	Sumeet Kumar	8 th May	Enrollment open Click here
5	GCP	Anup Pattanaik	TBD	

AUTOMATION PROGRESS

AUTOMATION 2024



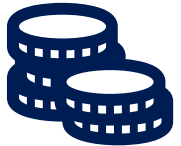
OKR

Implement automation capabilities through out the applications and achieve 140000 automation hours

Objective



Automate repetitive processes



Capture automation to Return On Investment.

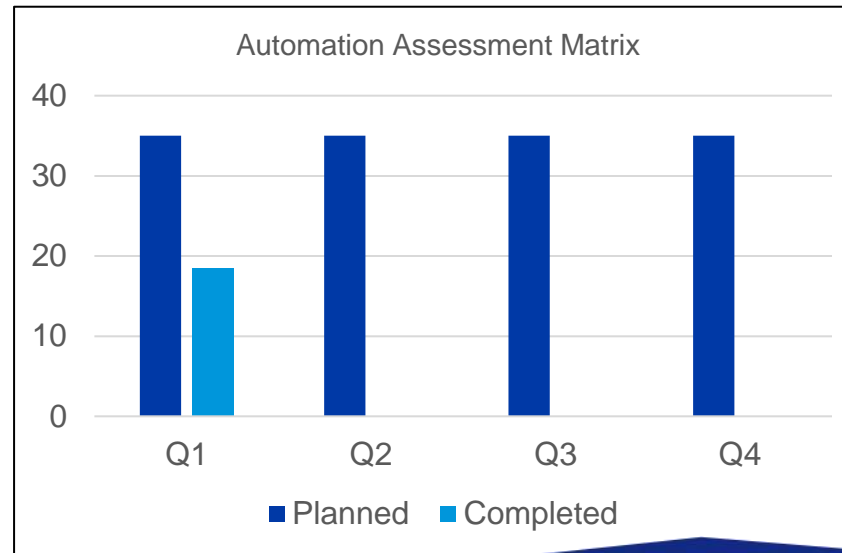


Knowledge sharing and bring culture of Automation

Accomplishments:



Automation hours of 18523 Hrs has been accounted in the CoP.




AUTOMATION STATUS - 2024

Target: 140k hrs
Current status: 18.5k hrs




Lucia Chung
Engineering and Product Support

Total : **18523** hours




Jennifer Davis
Engineering and Product Support

Status	Saved	Efficiency	Avoided
Complete	-	1100	-
In-Work	-	144	-
Backlog	-	-	-
Totals	-	144	-
		1244	



Tatum Shannon
Engineering and Product Support

Status	Saved	Efficiency	Avoided
Complete	-	-	11224
In-Work	-	-	-
Backlog	-	-	-
Totals	-	-	11224
		11224	



Buba Turner
Engineering and Product Support

Status	Saved	Efficiency	Avoided
Complete	-	5	-
In-Work	-	6,000	-
Backlog	-	-	-
Totals	-	6,005	-
		6,005	



Jeffrey Stein
Engineering and Product Support

Status	Saved	Efficiency	Avoided
Complete	-	-	-
In-Work	50	-	-
Backlog	-	-	-
Totals	50	-	-
		50	

TRAINING AND REFERENCES

TRAINING AND SUPPORT

Automation COP

<https://devsecops.web.boeing.com/index.html> [DevSecOps Enterprise Website]

Training:

<https://devsecops.web.boeing.com/trainings.html>

<https://insite.web.boeing.com/culture/viewMedia.do?mediaId=428840>

Insite: DevSecOps related video series

Degreed: <https://degreed.com/pathway/mpl66o5r9d/pathway>

Oreilly: <https://learning.oreilly.com/library/view/the-devops-handbook/9781457191381/>

Enterprise Support

In case of any queries interested teams can register themselves through [EMC](#) (check for the session with the name “DevSecOps Office Hours (India)”).

For Product Teams in US, [Click Here to block your slot](#)

For Product Teams in India, [Click Here to block your slot](#)

DSO Support Systems	Description	URL
ATOMS	Platform to onboard to some of the commonly used tools like Coverity, Netsparker, SonarQube	https://atoms.web.boeing.com/home
ATOMS-CI	Saves your team time by generating an automated continuous integration pipeline and integrating different tools	https://atoms-ci.web.boeing.com/ci
DevSecOps	Official DevSecOps website	https://devsecops.web.boeing.com/index.html
AppDynamics	Monitoring tool documentation	https://itms.pages.boeing.com/wiki/appdynamics/
Enablement kit	Architecture Checklist to improve maturity	https://devsecops.web.boeing.com/assessment/enablementKit.html
DSO Mattermost channel	Join this channel for any questions/updates	https://mattermost.web.boeing.com/dso/channels/town-square
DSO Consultation	Connect with the experts	DL DSO Consulting
DSO COE InSite Group	Join this group for any questions/updates	https://insite.web.boeing.com/culture/viewGroup.do?groupId=168061
DevSecOps Video Library	Videos on different implementation	https://insite.web.boeing.com/culture/displayGroupMedia.do?groupId=168061

ASSESSMENT PROCESS

DevSecOps Assessment Process Flow (Swimlane)

Please refer to the attached PDF.



GSEP Process for Dashboard Access

Please use the [link](#) to get access to the assessment dashboard. This is an auto approval process. Please select the first option for Business Stakeholder group.

Try to access this [Dashboard Link](#) after few minutes.

Info center Dashboard [Link](#)

Refer attached excel for pending reassessments and assessments.

CONTACT US

	DRI	Project Management	Core Team Focal	Enterprise collaboration
DevSecOps	Abhishek Singh Kenneth C Shew	Kolhar Laxmidevi Kumar Anand	<ol style="list-style-type: none"> 1. Singh, Abhishek K 2. Valiyarayil, Siby 3. Nair, Aathira Manikandan 4. P, Ashwini 5. Amaragatti, Sharanappa 6. Balraj, Bharath K 7. Fink (US), Brendan A 8. Ghosh, Subhabrata 9. H D, Sarika 10. Jenkins (US), Renee M 11. Jha, Ravi N 12. K L, Bharath 13. Kandan, Narendran 14. Kaur, Harmeet 15. Kumar, Abhishek 16. Kumar, Rahul 17. Malik (US), Muhammad A 18. Mohiddin Basha, Mahammed Gulam 19. Nadampalli Kumarraju, Lavanya 20. Padmanaban Shunmugam, Nihila 21. Pattanaik, Anup K 22. Popeck (US), John 23. Prabhat, Kumar 24. Prakash, Sumit 25. Radhakrishnan, Chinjumol 26. Rompicherla, Rakesh 27. Rooge, Padma Prasad 28. Singh, Omji Kunjbihari 29. Urimindi, Sreenivasulu 30. Varghese, Jessy 	<ol style="list-style-type: none"> 1. Sharina Haynes 2. Karthik Tirukkoylur Sekhar 3. Dolly Bhaskara 4. Sushil Mishra 5. Donald R Wellington
Automation	Kenneth C Shew Naga Harsha Kaggallu	Priyanka Dhanpal Chougule	DL Product Systems - DevSecOps Core Team	DL DSO DRIs

THANK YOU

