## Challenges with Docker technologies

This survey was developed under the scope of Preparação da Dissertação (PDIS) in regards to two dissertations related to Docker technologies. The objective is to identify and gauge the challenges developers encounter when working with Docker technologies namely dockerfiles and docker compose.

41.	_						-
*	u	םי	П	lu	ır	Δ	п
	ı١	·C	u	u		C	u

Ρ	ersonal context					
1.	Before LDSO I was experience	ed in *				
	Mark only one oval per row.					
		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
	writing a dockerfile for a software system					
	writing a docker-compose.yml file for a software system					
2.	At this point in time I am expe	rienced in *	<b>k</b>			
	Mark only one oval per row.					
		Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
	writing a dockerfile for a software system					
	writing a docker-compose.yml file for a software system					

Until now, approximately in how many projects have you ...

	Mark	only one	oval.									
		0	1	2	3	4	5	6	7	8	9	10
4.	W	orked or	n that h	nad a d	ocker-	compc	se.yml	file? *				
	Mark	only one	oval.									
		0	1	2	3	4	5	6	7	8	9	10
5.		ed Docl only one		s create	ed by a	thers (	colleaç 5	gues or 6		oarties) 8	<b>)? *</b> 9	10
6.	*	ed dock		mpose.	yml file	es crea	ted by	others	(collea	agues (	or third	parties)?
		0	1	2	3	4	5	6	7	8	9	10

3. ... worked on that had a Dockerfile? \*

/.	created/updated a Dockerfile?											
	Mark c	only one	oval.									
		0	1	2	3	4	5	6	7	8	9	10
8.	crea	ated/up	odated	a docl	ker-cor	mpose.	yml fil	e? *				
	Mark c	only one	oval.									
		0	1	2	3	4	5	6	7	8	9	10
9.	Check	Docker all that argume volume	apply. ents/var s (VOLU	iables ( JME ins	ARG ins	truction		d				
	<u> </u>	the use the wor environ	king dir	ectory (	(WORKE							
10.	In th	e dock	er-cor	npose.	yml file	s I've c	levelop	oed, I'v	e confi	gured.	••	
		k all tha										
		volum netwo										

Working with Docker technologies

11.	When I wr	ite a Docke	erfile, I spei	nd a lot o	f time *
1 1.	VVIICII I VVI	ILC a DOCK			

Mark only one oval per row.

12.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
finding out what parent image is the most suitable.					
finding out what are the dependencies of the system that must be added to the docker image.					
finding out what are the Dockerfile commands that I need.					
trying to understand if the resulting container is working as intended (e.g., running commands and tests on the container).					
trying to understand why the resulting container is not working as intended.					
finding out which commands are responsible for the container misbehaviour.					
rebuilding the image and re- running the container to confirm that it is working as intended.					
What steps or strategies do y in the creation of Dockerfiles		ollow in orc	ler to diaç	gnose an	d fix bugs

13.	Do you use any plugins/tools when developing Dockerfiles? *
	Mark only one oval.
	Yes
	No
14.	If so, which ones and how do they help you?

	Strongly Disagree	Disagree	Neutral	Agree	Strongl Agree
finding out what are the keys that I need.					
finding out what images are available.					
trying to understand why the services are not working as intended.					
(re)starting the services to confirm that they are working as intended.					
configuring the properties of each service (e.g. port mapping, name,).					
configuring the dependencies between the services (e.g. depends_on).					
configuring volumes and how they are attached to the services.					
configuring networks and how they are connected to the services.					

16.

15. When I write a docker-compose.yml file, I spend a lot of time... \*

Mark only one oval.					
Yes No					
If so, which ones and how do	they help y	ou?			
When I read a docker-compo	ose.yml file, l	spend a lo	t of time	trying to	
When I read a docker-compounderstand *	ose.yml file, l	spend a lo	t of time	trying to	
	ose.yml file, l	spend a lo	t of time	trying to	
understand *	ose.yml file, l Strongly Disagree	spend a lo	t of time	trying to Agree	Strong
understand *	Strongly				Strong Agree
understand *  Mark only one oval per row.	Strongly				Strong
understand *  Mark only one oval per row.  what the services are.  the dependencies between	Strongly				Strong

This content is neither created nor endorsed by Google.