

COMSATS University Islamabad

Attock Campus

						Pro	ogram:	Progra	m: BSC	CS								
Fall 2022 Topics in Computer S									Science (CSC-350)						Mid Term Time: 90 min			
November 21, 2022														Total Marks: (40)				
Nar	me											Re	e g. # SP	19/BCS	s/			
Qu Plea	empt all Q estion No ase select o	1. only on	e choic			ore appr	opriate	e to the	questio	on being	g attemp	_	l6 Mar	·ks] [C	1, C2, C	C 3]		
	1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1		
	<pre>improvement over what other technology? a) cloud computing b) DevOps c) virtual machines d) microservices Which programming language was used to write Docker? a) Java b) C++ c) Go d) Python</pre>								user space on the host operating system. They're also not tied to any specific infrastructure – Docker containers run on any computer, on any infrastructure, and in any cloud. a) True b) False 7is a cloud-hosted service from Docker that provides registry capabilities for public and private content. a) Docker Swarm b) Docker Hub c) Docker Cloud d) Docker Compose									
4.	8 8							 is a tool for defining and running multicontainer Docker applications. a) Docker Swarm b) Docker Hub c) Docker Cloud d) Docker Compose 								ti-		
	the same operating system kernel, so they start instantly and make more efficient use of RAM. a) True b) False								 9is native clustering for Docker. It turns a pool of Docker hosts into a single, virtual Docker host. a) Docker Swarm b) Docker Hub 									
	standard a) Allowing containers to run on all major Linux distributions only b) Allowing containers to run on all Microsoft operating systems only c) Allowing containers to run on all major Linux distributions and Microsoft operating systems Containers include the application and all its								c) Docker Cloud d) Docker Compose 10. What happens if you attempt to perform a Docker build based on an image that has not been previously referenced on your machine? a) Docker will return a 408: image not found message. b) Docker will return a 404: file not found message. c) Docker will pull the image from									

GitHub.

dependencies but share the kernel with other

containers. They run as an isolated process in the

	d)	Docker will pull the image from Docker Hub.							
11. Following Docker command: docker push user name/repository name is used to:									
	a)	Activate default VM machine							
	b)	Push changes done in a docker image into Docker Hub.							
	C)	Build an image							
	d)	Commit changes done in a Docker image.							
12.	The	The markup language used to write Docker configuration files is:							
	a)	JSON							
	b)	YAML							

- 13. You can't create multiple containers from the same image in the docker
 - a) True

c) XML d) HTML

- b) False
- 14. Can we remove a paused container from docker?
 - a) Yes
 - b) No
- 15. Is docker image OS dependent?
 - a) Yes
 - b) No
- 16. How do you map a host port to the container port?
 - a) docker run -i : imagename
 - b) docker run -p 5000:5000 flask_app:1.0
 - c) docker run --expose 5000:5000 flask app:1.0
 - d) docker log <container name>

Question # 2 [6+6=12 Marks] [C1, C3]

a) How do you differentiate "containerization" and "virtualization"? [6 Marks] [6 Marks]

b) What are Docker Container, Docker Image, and Docker hub?

Question #3 [4+4+4=12 Marks] [C2, C3]

a) Will cloud overtake the use of Containerization? [4 Marks] b) What is Hypervisor? [4 Marks]

c) Can we use JSON instead of YAML for my compose file in Docker? If yes, then write the docker command for the same. [4 Marks]