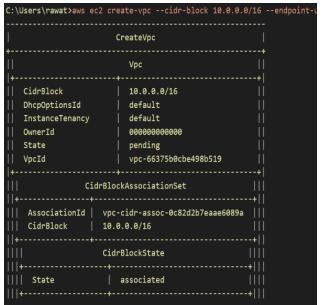
Experiment 6 Output

Aim: The experiment configures load balancing and auto-scaling using **AWS CLI, LocalStack, Docker,** and **Nginx**. It simulates cloud traffic distribution across instances for efficient workload management. The setup demonstrates scalable deployment in a local cloud environment.

Creating VPC

Pulling Nginx for Execution

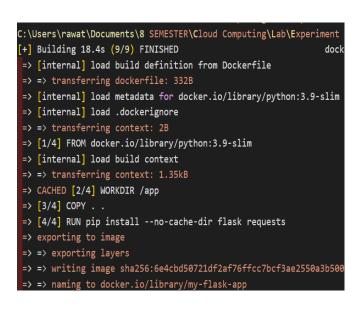


943ea0f0c2e4: Pull complete 103f50cb3e9f: Pull complete				
Digest: sha256:9d6b58feebd2dbo	13c56ab58533	33d627cc6e28101	l1cfd6050fa4bcf2	.072c9496
Status: Downloaded newer image	for nginx:	latest		
63d7914e78bb0791288824fffdcf46	d77bd92b4f8	95de4a403c88012	2dc87b601	
C:\Users\rawat\Documents\8	MESTER\Cloud	Computing\Lab	Experiment 6\Co	des>docker run -d
e565ff4cf0081c7965a7634fb1de66	318e88d927dd	80ca179822aa7a	33994f87c	
C:\Users\rawat\Documents\8	MESTER\ C loud	Computing\Lab	Experiment 6\Co	des>docker images
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
hackvortex-backend	latest	14e63c26d40b	12 hours ago	1.05GB
postgres	15	e45d3f5ec589	7 days ago	430MB
flask-app	latest	269bf42596ed	3 weeks ago	126MB
nginx	latest	b52e0b094bc0	4 weeks ago	192MB
<none></none>	<none></none>	44b808030263	4 weeks ago	126MB
<none></none>	<none></none>	063caad47b0a	4 weeks ago	126MB
localstack/localstack	latest	b686f3948f42	6 weeks ago	1.18GB
hello-world	latest	74cc54e27dc4	6 weeks ago	10.1kB
public.ecr.aws/lambda/python	3.8	348b357f1c82	7 weeks ago	575MB
python	3 9	9f98746e2033	3 months ago	999MB

Fig 1: VPC Setup

Running Flask Load balancing App

Fig 2: Docker Pulling and Output Image
Output with graph showing processes



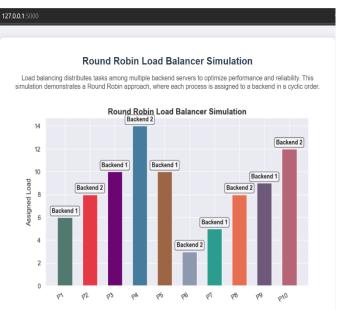


Fig 3: Flask App

Fig 4: Flask App Output

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