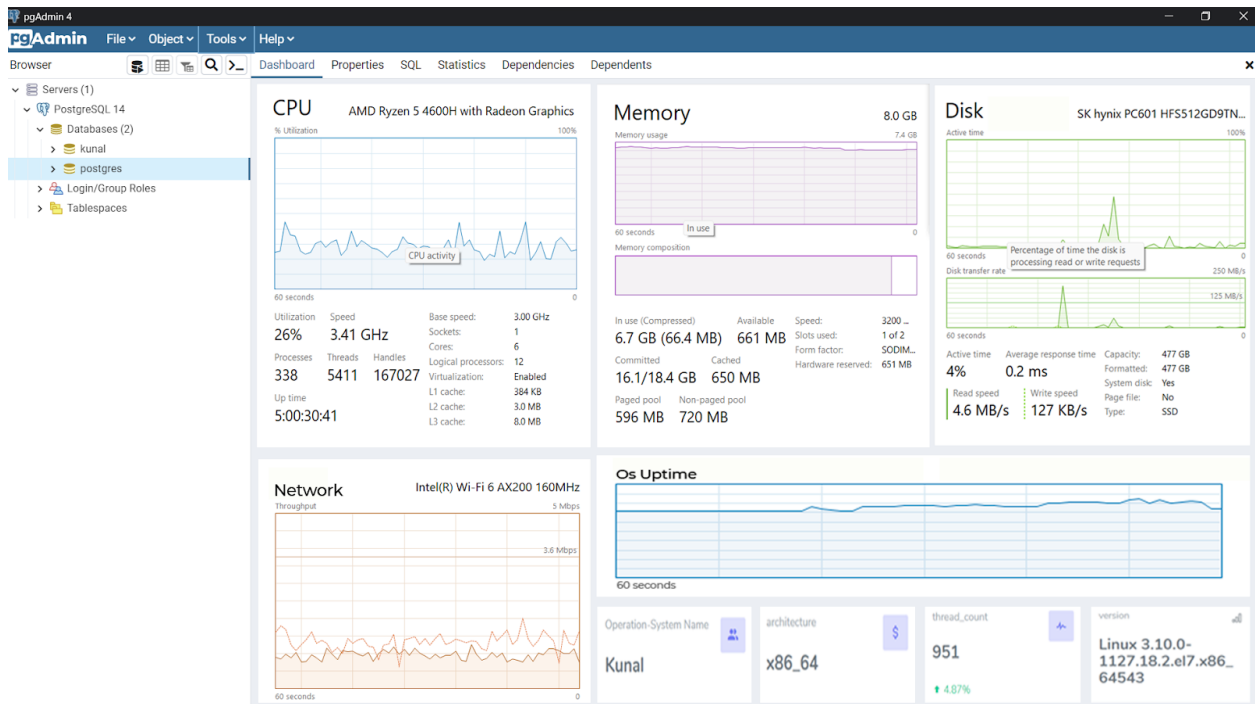GUI representation of monitoring System Activity

with the system_stats Extension in pgAdmin 4

Proposal for Layout of Pgadmin4 Dashboard

Plan:-

To integrate a detailed view of system activity into the existing pgAdmin dashboard following a consistent design that matches the existing UI/UX and meets User Acceptance Testing Standards.

Proposed Layout Design:-

Data fetched from queries:-

Details of different queries will be shown on a given component/card as shown in the design.

CPU

S.No.	Component	Type	Representation	Unit
1	Model Name	Static	Text	-
2	Logical Processors	Dynamic	Text	-
3	Base Speed	Dynamic	Text	GHz
4	L1, L2, L3 cache size	Dynamic	Text	KB/MB
5	Kernel mode percentage Idle mode percentage User normal process percentage	Dynamic	CPU activity Graph	%

Memory

S.No.	Component	Type	Representation	Unit
1	Total Memory Used Memory Free Memory	Static Dynamic	Pie chart	GB
2	Cache total Cache Used Cache Free	Dynamic	Memory Composition Graph (Pie chart/Line graph)	MB
3	Total Process Running Process Zombie Process	Dynamic	Text/Graph	-

Disk

S.No.	Component	Type	Representation	Unit
1	Total Space	Static	Text	
2	Used Space	Dynamic	Text	
3	Read Speed	Dynamic	Text	
4	Write Speed	Dynamic	Text	
5	Disk Name	Static	Text	
6	Avg Load per min	Dynamic	Line Graph	

OS

S.No.	Component	Type	Representation	Unit
1	Name	Static	Text	-
2	Architecture	Dynamic	Text	-
3	Thread Count	-	Text	-
4	Handle count	-	Text	-
5	Process Count	-	Text	-
6	OS up time	Dynamic	Text+Graph	seconds

Network

S.No.	Component	Type	Representation	Unit
1	Name	Static	Text	
2	Transmitted bytes Transmitted Package	Dynamic	Line Graphs (combined)	
3	Received bytes Received Package	Dynamic		