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 Stable Diffusion WebUI Integration System Overview The system is a web-based application for runnin Frontend built with Vue.js 3 Backend API with Flask 	g Stable Diffusion models with the fo	llowing key features:			
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 Axios TailwindCSS Socket.io-client Backend Flask Flask-RESTful 					
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Local Development Stack: — Docker Compose — Frontend Container (Vue.js — Backend Container (Flask) — PostgreSQL Container	S)				
Production Environment Options Option 1: Cloud Provider (AWS)					
AWS Infrastructure:					
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Self-Hosted Infrastructure: Nginx (Reverse Proxy) Docker Swarm/Kubernetes Frontend Containers Backend Containers Model Inference Containers	S				
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	Axios REST Client	Pinia State Management Socket.io Client Security Lay	Form Validation Image Managemen	Theme Handler Error Hand	ller
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Deployment Architecture (AWS)			Redis Queue MinIO Storag		Backup Service
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Application Load Balancer Security Groups Backend SG Frontend SG					
		Instance 2 Backend Instance 1 EC2 GPU Cluster		Frontend Service Frontend Instance 2 Fronte	end Instance 3
Database SG RDS Multi-AZ ElastiCache Cluster	Storage Layer	Model Service	nference Instance 1		
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Data Flow Diagram		Glacier			
User CloudFront Request Application Serve Static A	Frontend Load Balancer	Backend Auth S	ervice Redis Queue M	odel Service Storage	Database
20gm v equot	POST /auth/login Route	Validate Credentials JWT Token		Check User User Data	-
Update UI Request Image Generation	Auth Response POST /api/generate Route	•			
Show Progress UI	Job ID + Queue Position ◀	Enqueu	e Job Process Job	Save Generated Image	
User CloudFront	Image URL + Metadata Frontend Load Balancer	Backend Auth S	Complete Status ervice Redis Queue M	odel Service Storage	Database
Scaling Strategy	Queue Manager	Appli	Load Distribution	CloudFront CDN	
Storage Scaling DB Read Replicas Cache Shards Object Stora	GPU Pool GPU Utilization VRAM Us	AF	Auto Scaling Groups Backend Scaling	Frontend Scaling Frontend Pool	Request Count
Cost Analysis Infrastructure Costs with WebUI Integration AWS Option 1. Compute Resources • EC2 GPU Instance (g4dn.xlarge): 5. • 24/7 operation: ~3,800 MAD/m • ECS Fargate (2 vCPU, 4GB RAM) • Frontend: ~700 MAD/month • Backend: ~700 MAD/month 2. Storage • RDS PostgreSQL (db.t3.small): ~300 • S3 Storage (500GB): ~120 MAD/mo	n (Monthly in MAD) 26 MAD/hour month		Metrics Queue Length Response Tin	De CPU Metrics Memory Metrics	
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