

## Extraction Report: 08\_cicd\_pipeline

Property	Value
Domain	Config
Format	.yaml
Text length	1,499 chars
Sentences	1

### Entities

Spacy NER: 11 entities (39ms)

Entity	Label	Score
CI	ORG	
20	CARDINAL	
node	CARDINAL	
NODE_VERSION	TIME	
npm ci	PERSON	
npm	PERSON	
5432:5432	CARDINAL	
Requires	PERSON	

Gliner NER: 14 entities (42ms)

Entity	Label	Score
lint	action	0.60
actions	action	0.67
test	action	0.39
Deploying	action	0.43
Requires	constraint	0.45
manual approval	requirement	0.63

Stanza NER: 1 entities (229ms)

Entity	Label	Score
20	CARDINAL	

Flair NER: 1 entities (29ms)

Entity	Label	Score
GitHub	ORG	0.82

### Relations (SRL)

11 SRL frames (41ms)

Verb	Agent	Patient	Other
run	npm	lint	

test | | run | npm | docker / build - push - action@v5 | ARGM-ADV=build - uses : | | build | | - uses : | | | build  
| name : CI / CD Pipeline on : push | if : github.ref = = ' refs / heads / dev | | | develop | refs | environment | | |  
deploy | | ”

deploy - production | | | stag | | environment | | | run | | ” Deploying to staging environment ”

| | | build | | <https://app.example.com> steps : | | | deploy | | | ARG2=to production | | require | ” # | manual  
approval | ARG2=via GitHub Environments |

## Enriched Extraction (batch-enrich)

Single GPU call: 14 entities, 1 roles, 11 SRL frames (93ms)

### Latency Comparison

Method	Latency
Separate (GLiNER 42ms + GLiClass 34ms + SRL 41ms)	<b>117ms</b>
batch-enrich (unified)	<b>93ms</b>
Speedup	<b>1.3x</b>

### Per-Sentence Enriched Results (sample)

Sentence	Entities	Role	SRL Frames
name: CI/CD Pipeline			

on: push: branches: [main, develo | 14 | Action (0.85) | 11 |

### Entity Type Distribution (enriched)

Label	Count
action	12
constraint	1
requirement	1

### Role Distribution (enriched)

Role	Count
Action (Event)	1

## QLang Sentences

Gliclass: 1 classifications (34ms)

Event (1)

- [Action] (0.85) name: CI/CD Pipeline on: push: branches: [main, develop] pull\_request: ...

## Qualtron: 1 classifications (7199ms)

### Discourse (1)

- [Claim] (0.00) name: CI/CD Pipeline on: push: branches: [main, develop] pull\_request: ...

## QHG Process Models

### FSM (2948ms)

*Could not parse structured output*

None

### BPMN (1557ms)

*Could not parse structured output*

None

### DFG (1890ms)

*Could not parse structured output*

None

### KnowledgeState (6314ms)

*Could not parse structured output*

None

## CNL / QNR2 Rules

0 rule patterns detected

## Heuristic Facts & Rules

0 facts, 0 rules

## Topics (Gensim LDA)

- **Topic 0:** {'word': 'staging', 'weight': 0.0444}, {'word': 'main', 'weight': 0.0444}, {'word': 'environment', 'weight': 0.0444}, {'word': 'github', 'weight': 0.0442}, {'word': 'production', 'weight': 0.043}, {'word': 'branches', 'weight': 0.0305}, {'word': 'develop', 'weight': 0.0305}, {'word': 'ref', 'weight': 0.0305}
- **Topic 1:** {'word': 'test', 'weight': 0.017}, {'word': 'postgres', 'weight': 0.017}, {'word': 'env', 'weight': 0.017}, {'word': 'npm', 'weight': 0.017}, {'word': 'run', 'weight': 0.017}, {'word': 'image', 'weight': 0.017}, {'word': 'actions', 'weight': 0.017}, {'word': 'runs', 'weight': 0.017}
- **Topic 2:** {'word': 'run', 'weight': 0.0804}, {'word': 'build', 'weight': 0.0804}, {'word': 'push', 'weight': 0.0553}, {'word': 'latest', 'weight': 0.0553}, {'word': 'uses', 'weight': 0.0553}, {'word': 'npm', 'weight': 0.0553}, {'word': 'steps', 'weight': 0.0302}, {'word': 'actions', 'weight': 0.0302}
- **Topic 3:** {'word': 'run', 'weight': 0.089}, {'word': 'node', 'weight': 0.0876}, {'word': 'actions', 'weight': 0.0602}, {'word': 'uses', 'weight': 0.0602}, {'word': 'lint', 'weight': 0.0602}, {'word': 'npm', 'weight': 0.0602}, {'word': 'version', 'weight': 0.0602}, {'word': 'steps', 'weight': 0.0336}
- **Topic 4:** {'word': 'test', 'weight': 0.1187}, {'word': 'postgres', 'weight': 0.0959}, {'word': 'run', 'weight': 0.0502}, {'word': 'env', 'weight': 0.0502}, {'word': 'npm', 'weight': 0.0502}, {'word': 'latest', 'weight': 0.0274}, {'word': 'ubuntu', 'weight': 0.0274}, {'word': 'needs', 'weight': 0.0274}

## Summary (Sumy LexRank)

name: CI/CD Pipeline on: push: branches: [main, develop] pull\_request: branches: [main] REGISTRY: ghcr.io test: runs-on: ubuntu-latest needs: lint services: postgres: image: postgres:16 env: POSTGRES\_PASSWORD: test ports: - 5432:5432 steps: - uses: actions/checkout@v4 - run: npm ci - run: npm test env: DATABASE\_URL: postgresql://postgres:test@localhost:5432/test build: runs-on: ubuntu-latest needs: test steps: - uses: actions/checkout@v4 - run: npm ci - run: npm run build - uses: docker/build-pu