

default

POST

/assess

Assess Risk Endpoint

Parameters

No parameters

Request body

required

application/json

Edit Value | Schema

```
{  "company_id": "NVDA",  "financial_data": {    "debt_to_equity": 2.8,    "current_ratio": 1.4,    "interest_coverage": 1.2,    "revenue_growth": -0.05,    "foreign_currency_exposure": 0.45,    "commodity_exposure": 0.4,    "system_downtime_hours": 30,    "employee_turnover_rate": 0.15,    "process_error_rate": 0.08,    "top_supplier_concentration": 0.55,    "security_incidents_year": 5,    "regulatory_violations_year": 1,    "compliance_audit_findings": 2,    "sox_compliant": true,    "gdpr_compliant": false,    "basel_compliant": true,    "pending_litigation": 1  },  "market_data": {    "volatility": 0.3,    "beta": 1.1  },  "compliance_requirements": ["SOX", "GDPR"],  "include_rag_analysis": false}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \  'http://localhost:8080/assess' \  -H 'accept: application/json' \  -H 'Content-Type: application/json' \  -d '{  "company_id": "NVDA",  "financial_data": {    "debt_to_equity": 2.8,    "current_ratio": 1.4,    "interest_coverage": 1.2,    "revenue_growth": -0.05,    "foreign_currency_exposure": 0.45,    "commodity_exposure": 0.4,    "system_downtime_hours": 30,    "employee_turnover_rate": 0.15,    "process_error_rate": 0.08,    "top_supplier_concentration": 0.55,    "security_incidents_year": 5,    "regulatory_violations_year": 1,    "compliance_audit_findings": 2,    "sox_compliant": true,    "gdpr_compliant": false,    "basel_compliant": true,    "pending_litigation": 1  },  "market_data": {    "volatility": 0.3,    "beta": 1.1  }}
```

Request URL

http://localhost:8080/assess

Server response

Code

Details

200

Response body

```
{  "summary": "Some cybersecurity concerns",  "confidence": 0.75,  "timestamp": "2025-10-13T10:52:54.892696",  "compliance_risk": {    "risk_type": "compliance",    "score": 0.25,    "level": "low",    "factors": [      "Minor regulatory violation",      "GDPR compliance gaps"    ]  },  "overall_risk_score": 0.4925,  "overall_risk_level": "medium",  "recommendations": [    "Urgent: Improve debt-to-equity ratio through debt reduction or equity financing",    "Enhance cash flow management and working capital optimization",    "Strengthen IT infrastructure and cybersecurity measures",    "Implement business continuity and disaster recovery plans",    "Diversify supplier base to reduce concentration risk"  ],  "assessment_id": "RA-20251013105254",  "timestamp": "2025-10-13T10:52:54.896697"}
```

Response headers

```
access-control-allow-credentials: trueaccess-control-allow-origin: http://localhost:8080content-length: 1375content-type: application/jsondate: Mon, 13 Oct 2025 10:52:45 GMTserver: uvicornvary: Origin
```

Responses

Code

Description

Links

200

Successful Response

No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{  "operational_risk": {    "risk_type": "string",    "score": 1,    "level": "low",    "factors": [      "string"    ]  },  "confidence": 1,  "timestamp": "2025-10-13T10:56:22.912Z",  "compliance_risk": {    "risk_type": "string",    "score": 1,    "level": "low",    "factors": [      "string"    ]  },  "overall_risk_score": 0,  "overall_risk_level": "low",  "recommendations": [    "string"  ],  "assessment_id": "string",  "timestamp": "2025-10-13T10:56:22.912Z"}
```

422

Validation Error

No links

Media type

application/json

Example Value | Schema

```
{  "detail": [    {      "loc": [        "string",        0      ],      "msg": "string",      "type": "string"    }  ]}
```

GET

/metrics

Metrics Endpoint

GET

/health

Health

Schemas

ComprehensiveRiskAssessment > Expand all object

HTTPValidationError > Expand all object

RiskAssessmentRequest > Expand all object

RiskLevel > Expand all string

RiskScore > Expand all object

ValidationError > Expand all object