



Traditional Approach

Document → Preprocessing → Analysis
 Formatting ← Summarization
 (fixed pipeline, same steps for all documents)

AI Agent Approach

Document
 ↓
 Agent Analyzes
 ↓
 choose Tool

↓
 Dynamic Workflow (Intelligent Routing)

API Gateway + Lambda
 MCP + Strands Agent

2) MCP Server - Preprocessing Tools

↳ Call Tools from Preprocessing MCP Server

↳ MCP Server is deployed to Amazon Bedrock AgentCore Runtime

Key Points :

- 1) MCP SDK (mcp-server)
- 2) list-tools for Tool discovery
- 3) call-tool for Execution
- 4) AgentCore Runtime - Port 8000

3) MCP Server - Analysis Tools

Tools → Analysis MCP Server → AgentCore Runtime

Why AgentCore Runtime for Analysis Tools?

- 1) Managed Infrastructure - MCP Servers
- 2) Automatic Scaling
- 3) Built-in Monitoring
- 4) Seamless Integration
- 5) Simplified Deployment