



Traditional Approach

→ preprocessing → Analysis
 (fixed pipeline, same steps for all documents)

AI Agent Approach

Document →
 Agent Analyzes
 choose Tool
 Dynamic Workflow (intelligent Routing)
 API Gateway + Lambda(s)
 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 – Post 8000

③ MCP Server – Analysis Tools

Tools → Analysis MCP Server → AgentCore Runtime.

Why AgentCore Runtime for Analysis Tools?

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