

Team Name: Vipers

Team Leader Name: Sanjay Chari

Problem Statement: Service efficiency improvement for MSPs and IT Teams

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Suite: AWS RMM Dashboard + Alert Intelligence Platform

Notes: We reduce alert noise, accelerate resolution, and prove impact with a combined offering of two products an AI powered RMM dashboard and an MSP-grade alert intelligence platform. This submission combines two different offerings /slide decks.

Prototype Overview:

AWS Al-driven Remote Monitoring & Management (RMM) dashboard providing a centralized view of Bedrock Agents, incidents, servers, and analytics. It showcases autonomous workflows with explainable actions, emphasizing reductions in Mean Time to Repair (MTTR), cost savings, and increased automation rates.

How different is it from any of the other existing ideas?

Unlike static RMMs, this is an agent-first, action-oriented dashboard with explainability and cost-aware automation.

Traditional RMM

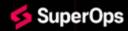
- X Reactive monitoring
- X Manual incident response
- X Single-point monitoring
- X 3+ hour MTTR
- X Rule-based alerts
- X Human dependency

Our AI Agent Solution

- Proactive Al prediction
- Autonomous resolution
- **✓** Multi-agent orchestration
- Significantly reduced MTTR
- Context-aware reasoning
- Self-healing systems



- How will it be able to solve the problem?
- Reduces MTTR via autonomous incident workflows.
- Predictive maintenance to prevent outages.
- Consistent, policy-aligned responses at scale.



USP of the proposed solution

Autonomous Agent Orchestra

- 5 specialized Al agents working in harmony
- Real-time decision making without human intervention
- Context-aware reasoning using Amazon Bedrock

Cognitive Operations

- Learns from every incident to improve responses
- Adapts to environment changes automatically
- Predicts failures before they impact business

List of features offered by the solution Key Features

Agent Ecosystem

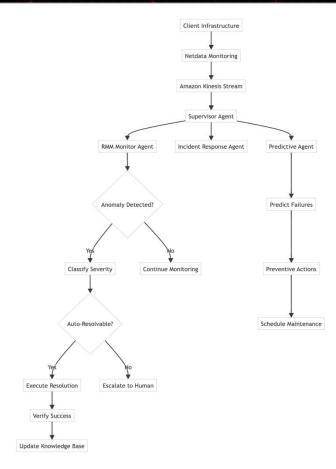
- Supervisor Agent Orchestrates multi-agent workflows
- RMM Monitor Agent Real-time infrastructure surveillance
- Incident Response Agent Autonomous problem resolution
- Predictive Maintenance Agent Failure prediction & prevention
- Client Management Agent Multi-tenant resource optimization

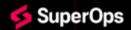
List of features offered by the solution (cont'd) Key Features

Advanced Capabilities

- Real-time Anomaly Detection using ML models
- Automated Root Cause Analysis with reasoning chains
- Intelligent Escalation based on complexity assessment
- Self-Healing Scripts for common infrastructure issues
- Predictive Analytics for capacity planning

Process flow diagram





Use Case & Actor Interactions of the proposed solution

Primary Actors:

IT Administrator - Configuration & oversight End Users - Service consumers

Al Agents - Autonomous operators

External Systems - Infrastructure components

Core Use Cases:

Autonomous Incident Management

- Monitor Agent detects anomaly
- Supervisor Agent classifies severity
- 3. Incident Agent executes resolution
- 4. System notifies stakeholders

Use Case & Actor Interactions of the proposed solution Primary Actors:

IT Administrator - Configuration & oversight

End Users - Service consumers

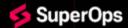
Al Agents - Autonomous operators

External Systems - Infrastructure components

Core Use Cases:

Predictive Maintenance

- 1. Predictive Agent analyzes trends
- 2. System forecasts potential failures
- 3. Maintenance Agent schedules actions
- 4. IT Admin receives recommendations



Use Case & Actor Interactions of the proposed solution Primary Actors:

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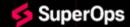
Al Agents - Autonomous operators

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Core Use Cases:

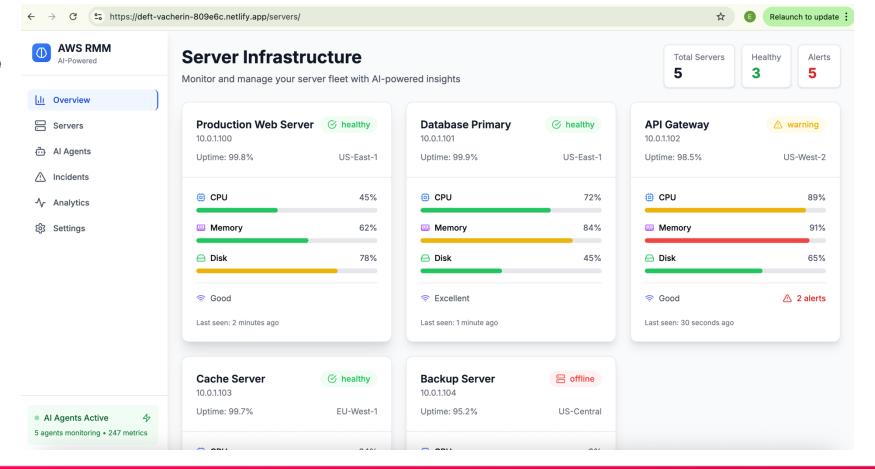
Multi-Client Operations

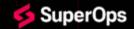
- Client Agent monitors tenant resources
- System isolates tenant data
- Billing Agent tracks usage
- Dashboard provides client insights

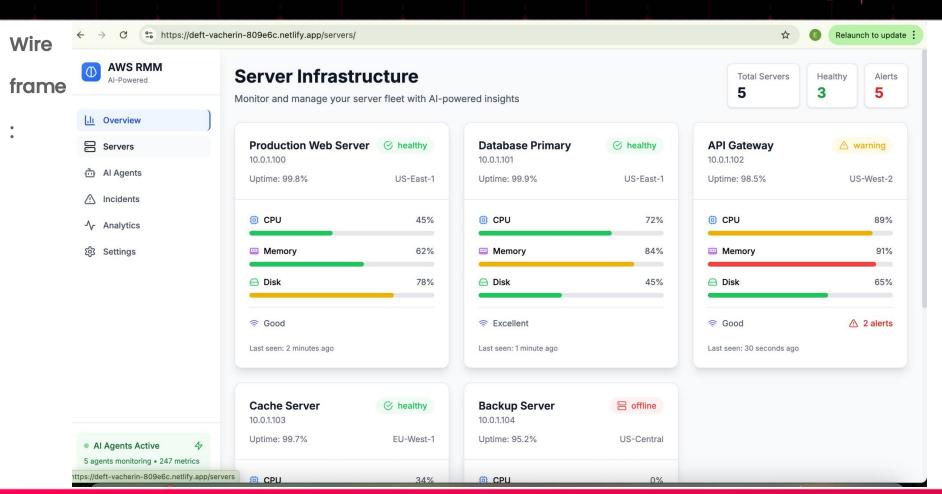


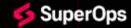


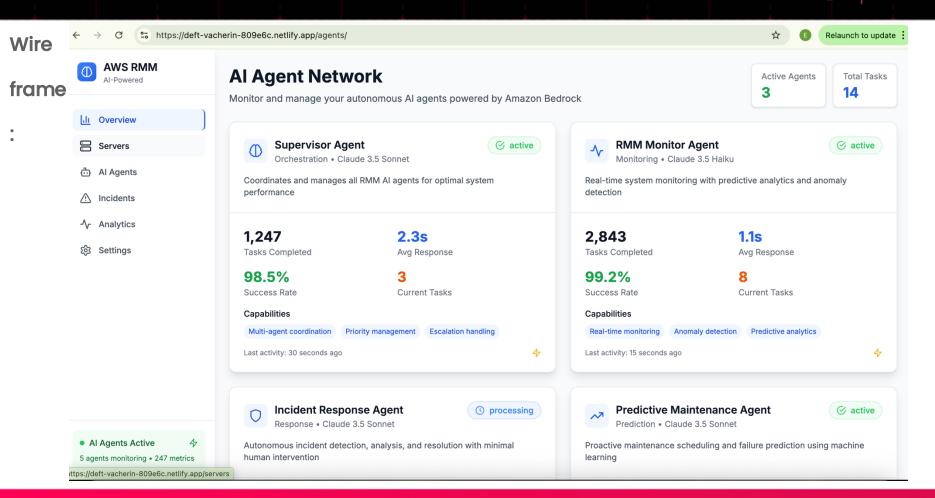
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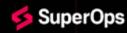






Architecture diagram of the proposed solution

Supervisor Agent orchestrates: RMM Monitor Agent Kinesis Streaming — Netdata Agents Incident Response — TimeStream DB SNMP Collectors Predictive Maint. — Lambda Functions — Custom APIs Client Management — S3 Storage — Log Aggregators Escalation Manager OpenSearch/CloudWatch



Technologies used in the working prototype (front-end):

Next.js 14 - React framework with App Router

TypeScript - Type-safe development

Tailwind CSS - Utility-first styling

Framer Motion - Smooth animations

Lucide React - Icon library

Technologies to be used in the solution:

Proposed Production (Future AWS Integration):

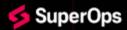
Amazon Bedrock AgentCore - Multi-agent orchestration

Amazon Q, Kiro - Intelligent processing, Coding

AWS Lambda, DynamoDB, S3 - Cloud infrastructure

SageMaker, Comprehend - Advanced AI/ML

Prototype Performance report/Benchmarking



Additional Details/Future Development (if any)

- Live Bedrock agent integration with explainability and guardrails.
- Multi-tenant orgs, RBAC, audit trails, policy packs.
- Real-time streams (WebSocket) for incident timelines and agent thoughts.
- Predictive models + feedback loops; post-incident learning library.
- Cost governance: per-action cost budget, anomaly alerts, savings reports.
- Ecosystem integrations: Slack, Jira, ServiceNow; webhooks.
- Mobile companion app and offline views.

Estimated implementation cost (optional):

Costs to be determined post-MVP based on measured usage. Focus will be to prioritize cost-efficient architecture and provide optimization recommendations; any scale-up changes will be done based on further discussions and approval.

GitHub & Demo video URL

Front end Prototype-current progress at:

https://deft-vacherin-809e6c.netlify.app/

Github:

https://github.com/ecogetaway/aws-rmm-dashboard2025

https://github.com/ecogetaway/kiro-amazonQ-superhack (Development Exploration)

Demo video URL



Building the Future of Agentic Al For IT Management

THANK YOU