

V-Mart AI Agent - Release Downloads v2.0

Professional Release Package Documentation

Version: 2.0.0

Release Date: November 9, 2025

Architecture: Separated (Chatbot Agent + Backend Server)

Platform Support: Windows, macOS, Linux

■ Release Package Overview

V-Mart AI Agent v2.0 introduces a **separated architecture** with two independent components:

1. **Chatbot Agent** - User-facing conversational interface
2. **Backend Server** - Central data and API management hub

Each component can be installed independently or together for full functionality.

■ What's New in v2.0

Architecture Improvements

- ✓ **Separated Components** - Independent chatbot and backend deployment
- ✓ **Scalable Design** - Multiple chatbots can connect to one backend
- ✓ **Flexible Deployment** - Install only what you need
- ✓ **Better Resource Management** - Optimized for each component's requirements

Enhanced Features

- ✓ **Auto-Start on Boot** - Runs automatically as system service
- ✓ **Crash Recovery** - Automatic restart on failures
- ✓ **Google OAuth Integration** - Secure authentication
- ✓ **24/7 Service Setup** - Production-ready deployment
- ✓ **Interactive Installation** - Guided setup wizards
- ✓ **Comprehensive Documentation** - 16 detailed guides

■ Download Links

Chatbot Agent v2.0

Purpose: User-facing conversational AI interface

Best For: Individual users, end-user systems, client machines

Platform	Installer	Size	Requirements
Windows	`install-chatbot.bat`	10 MB	Windows 10/11, Python 3.8+
macOS	`install-chatbot.sh`	10 MB	macOS 10.15+, Python 3.8+
Linux	`install-chatbot.sh`	10 MB	Ubuntu 20.04+/Debian 10+, Python 3.8+

Download Location: <releases/v2.0-separated/chatbot-agent/>

Features:

- Google Gemini AI integration
- Google OAuth authentication
- Local file reading (Excel, CSV, PowerPoint, PDF)
- Backend client SDK (optional)
- Web interface on port 8000
- Session management
- Chat history

Requirements:

- Python 3.8 or higher
- 4 GB RAM (8 GB recommended)
- 500 MB disk space
- Internet connection
- Google API key (Gemini)

Backend Server v2.0

Purpose: Central data and API management hub

Best For: Server deployment, centralized data access, API services

Platform	Installer	Size	Requirements
Windows	`install-backend.bat`	15 MB	Windows Server 2019+/Windows 10/11, Python 3.8+
macOS	`install-backend.sh`	15 MB	macOS 10.15+, Python 3.8+
Linux	`install-backend.sh`	15 MB	Ubuntu 20.04+/Debian 10+/CentOS 8+, Python 3.8+

Download Location: [releases/v2.0-separated/backend-server/](https://github.com/V-Mart-AI/v2.0-separated/releases/tag/backend-server/)

Features:

- REST API with 17+ endpoints
- Database connectors (Oracle, SQL Server, PostgreSQL, MySQL, ClickHouse, Tableau, Google Sheets)
- AI Insights Engine
- RBAC with 23 granular permissions
- API key authentication
- Rate limiting
- Health monitoring
- Configuration management

Requirements:

- Python 3.8 or higher
- 8 GB RAM (16 GB recommended)
- 1 GB disk space
- Static IP or domain name (recommended)
- Database connections (optional)

■ Quick Start Installation

Windows Installation

Chatbot Agent

```
# 1. Download chatbot-agent/windows/install-chatbot.bat # 2. Right-click and  
"Run as Administrator" # 3. Follow the interactive wizard # 4. Access at:  
http://localhost:8000
```

Backend Server

```
# 1. Download backend-server/windows/install-backend.bat # 2. Right-click and  
"Run as Administrator" # 3. Follow the interactive wizard # 4. API available  
at: http://localhost:5000
```

Auto-Start: Configured via Windows Task Scheduler

macOS Installation

Chatbot Agent

```
# 1. Download chatbot-agent/macos/install-chatbot.sh # 2. Open Terminal and  
run: chmod +x install-chatbot.sh ./install-chatbot.sh # 3. Follow the  
interactive wizard # 4. Access at: http://localhost:8000
```

Backend Server

```
# 1. Download backend-server/macos/install-backend.sh # 2. Open Terminal and  
run: chmod +x install-backend.sh ./install-backend.sh # 3. Follow the  
interactive wizard # 4. API available at: http://localhost:5000
```

Auto-Start: Configured via LaunchAgent (com.vmart.chatbot.plist)

Linux Installation

Chatbot Agent

```
# 1. Download chatbot-agent/linux/install-chatbot.sh # 2. Open Terminal and  
run: chmod +x install-chatbot.sh ./install-chatbot.sh # 3. Follow the  
interactive wizard # 4. Access at: http://localhost:8000
```

Backend Server

```
# 1. Download backend-server/linux/install-backend.sh # 2. Open Terminal and  
run: chmod +x install-backend.sh ./install-backend.sh # 3. Follow the  
interactive wizard # 4. API available at: http://localhost:5000
```

Auto-Start: Configured via systemd service

■ Documentation Included

Chatbot Agent Documentation (8 Guides)

Document	Description	Pages
QUICK_SETUP.md	Fast installation guide	7
USER_GUIDE.md	Complete user manual	12
SERVICE_24x7_SETUP.md	24/7 service configuration	10
GOOGLE_OAUTH_SETUP.md	OAuth integration guide	8
CHATBOT_INTERFACE_GUIDE.md	Web interface documentation	11
DATA_READING_FEATURE.md	File reading capabilities	9
DEPLOYMENT_GUIDE.md	Production deployment	15

ARCHITECTURE_DIAGRAMS.md	System architecture	20
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Location: <releases/v2.0-separated/chatbot-agent/docs/>

Backend Server Documentation (7 Guides)

Document	Description	Pages
DEPLOYMENT_GUIDE.md	Server deployment	15
ARCHITECTURE_SEPARATION.md	Architecture overview	18
ARCHITECTURE_DIAGRAMS.md	System diagrams	20
API_REFERENCE.md	REST API documentation	25
BACKEND_MANAGER.md	Management guide	30
SERVICE_24x7_SETUP.md	Service configuration	10
SEPARATED_ARCHITECTURE.md	Design rationale	22

Location: <releases/v2.0-separated/backend-server/docs/>

■ Installation Features

Interactive Wizard

- ✓ Step-by-step guided setup
- ✓ Automatic dependency installation
- ✓ Configuration file generation
- ✓ Service registration
- ✓ API key setup
- ✓ OAuth credential configuration
- ✓ Validation and testing

Auto-Start Configuration

- ✓ **Windows:** Task Scheduler with auto-restart
- ✓ **macOS:** LaunchAgent with KeepAlive
- ✓ **Linux:** systemd service with restart policy

Crash Recovery

- ✓ Automatic restart on failure
- ✓ Error logging
- ✓ Email notifications (optional)
- ✓ Health monitoring

Management Scripts

Each installation includes:

- `start.sh` / `start.bat` - Start the service
 - `stop.sh` / `stop.bat` - Stop the service
 - `restart.sh` / `restart.bat` - Restart the service
 - `status.sh` / `status.bat` - Check service status
-

■ System Requirements

Minimum Requirements

Chatbot Agent:

- CPU: 2 cores
- RAM: 4 GB
- Disk: 500 MB
- OS: Windows 10, macOS 10.15, Ubuntu 20.04 (or equivalent)
- Python: 3.8+
- Network: Internet connection

Backend Server:

- CPU: 4 cores
- RAM: 8 GB
- Disk: 1 GB
- OS: Windows Server 2019, macOS 10.15, Ubuntu 20.04 (or equivalent)
- Python: 3.8+
- Network: Static IP or domain name recommended

Recommended Requirements

Chatbot Agent:

- CPU: 4 cores
- RAM: 8 GB
- Disk: 1 GB
- SSD storage

Backend Server:

- CPU: 8 cores
 - RAM: 16 GB
 - Disk: 5 GB
 - SSD storage
 - Dedicated server
-

■ Security Setup

API Keys Required

Chatbot Agent:

- Google Gemini API key
- Google OAuth credentials (Client ID, Client Secret)
- Backend API key (if connecting to backend)

Backend Server:

- Google Gemini API key (for AI features)

- Database connection strings (optional)
- API keys for external services (Tableau, etc.)

Security Features

- ✓ API key authentication
 - ✓ RBAC with 23 permissions
 - ✓ Secure token generation
 - ✓ bcrypt password hashing
 - ✓ Rate limiting
 - ✓ Input validation
 - ✓ SQL injection prevention
-

■ Port Configuration

Default Ports

Component	Port	Protocol	Purpose
Chatbot Agent	8000	HTTP	Web interface
Backend Server	5000	HTTP	REST API

Firewall Configuration

Chatbot Agent (Local):

- Allow localhost:8000
- No external access required

Backend Server (Production):

- Allow external access on port 5000
- Configure firewall rules
- Use reverse proxy (nginx/Apache) recommended

- Enable HTTPS in production
-

■ Deployment Scenarios

Scenario 1: Standalone Chatbot (Simple)

Setup: Install chatbot agent only

Use Case: Personal use, single user

Requirements: Google Gemini API key

Configuration: Local file reading only

Scenario 2: Chatbot with Backend (Advanced)

Setup: Install both chatbot agent and backend server

Use Case: Team use, database access, multiple users

Requirements: Both API keys + database connections

Configuration: Chatbot connects to backend

Scenario 3: Multiple Chatbots + One Backend (Enterprise)

Setup: 1 backend server + N chatbot agents

Use Case: Organization-wide deployment

Requirements: Static IP for backend, API keys

Configuration: All chatbots point to central backend

Scenario 4: Backend Only (API Server)

Setup: Install backend server only

Use Case: API service, headless operation

Requirements: Database connections, API keys

Configuration: REST API access only

■ Installation Time Estimates

Chatbot Agent

- Download: 30 seconds (10 MB)
- Dependency installation: 2-5 minutes (18 packages)
- Interactive configuration: 1-2 minutes
- **Total: 3-8 minutes**

Backend Server

- Download: 30 seconds (15 MB)
- Dependency installation: 3-7 minutes (23 packages + DB drivers)
- Interactive configuration: 2-3 minutes
- Database setup (optional): 5-15 minutes
- **Total: 5-15 minutes**

■ Troubleshooting

Common Issues

Port Already in Use:

```
# Check what's using the port # Windows: netstat -ano | findstr :8000 #
macOS/Linux: lsof -i :8000 # Solution: Change port in configuration or stop
conflicting service
```

Python Not Found:

```
# Install Python 3.8+ # Windows: Download from python.org # macOS: brew
install python@3.10 # Linux: sudo apt install python3
```

Permission Denied:

```
# Windows: Run installer as Administrator # macOS/Linux: Use sudo for
system-wide installation sudo ./install-chatbot.sh
```

API Key Issues:

```
# Verify .env file exists and has correct values # Check Google API key at:  
https://aistudio.google.com/app/apikey # Ensure OAuth credentials are  
configured
```

■ Support

Contact Information

- **Email:** support@vmart.co.in
- **GitHub:** <https://github.com/ds25041974/V-Mart-Personal-AI-Agent>
- **Issues:** Create GitHub issue for bug reports

Getting Help

1. Check documentation in `docs/` folder
 2. Review troubleshooting section
 3. Search existing GitHub issues
 4. Create new issue with:
 - Platform and version
 - Error messages
 - Installation logs
 - Steps to reproduce
-

■ Release Notes

v2.0.0 (November 9, 2025)

Major Changes:

- ✓ Separated architecture (Chatbot + Backend)
- ✓ Auto-start on boot for all platforms
- ✓ Crash recovery mechanism
- ✓ Interactive installation wizards
- ✓ Google OAuth integration
- ✓ 24/7 service setup
- ✓ Comprehensive documentation (16 guides)

Chatbot Agent:

- Google Gemini AI integration
- Local file reading (Excel, CSV, PPT, PDF)
- Backend client SDK
- Session management
- Web interface improvements

Backend Server:

- REST API with 17+ endpoints
- 7 database connector types
- AI Insights Engine
- RBAC with 23 permissions
- API key authentication
- Rate limiting
- Health monitoring

Bug Fixes:

- Fixed Permission enum mismatches (8 fixes)
- Improved error handling
- Enhanced logging
- Better crash recovery

Quality Assurance:

- 45 tests executed
- 100% code quality validation
- All installers tested
- Documentation complete
- Production-ready release

■ Next Steps After Installation

For Chatbot Users:

1. Access web interface at <http://localhost:8000>
2. Configure Google OAuth (see GOOGLE_OAUTH_SETUP.md)
3. Test file reading features
4. Review user guide
5. Set up backend connection (optional)

For Backend Administrators:

1. Configure database connections
2. Set up API keys
3. Configure RBAC permissions
4. Test API endpoints
5. Monitor logs
6. Set up backup scripts

For Developers:

1. Review API documentation
 2. Test API endpoints with Postman/curl
 3. Integrate with applications
 4. Set up development environment
 5. Review architecture diagrams
-

■ Package Structure

```
releases/v2.0-separated/ chatbot-agent/ README.md VERSION
docs/ (8 guides) windows/ install-chatbot.bat
chatbot_requirements.txt macos/ install-chatbot.sh
chatbot_requirements.txt linux/ install-chatbot.sh
chatbot_requirements.txt backend-server/ README.md VERSION
docs/ (7 guides) windows/ install-backend.bat
backend_requirements.txt macos/ install-backend.sh
backend_requirements.txt linux/ install-backend.sh
backend_requirements.txt
```

✓ Quality Assurance

This release has been thoroughly tested:

- ✓ 45 comprehensive tests
- ✓ Python syntax validation (30+ files)
- ✓ Installer script validation (all platforms)
- ✓ Configuration file validation
- ✓ Import and dependency tests
- ✓ Security validation
- ✓ Documentation completeness

QA Reports Available:

- QA_TESTING_REPORT_v2.0.pdf
- QA_COMPLETION_SUMMARY.pdf

■ License

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■ Additional Resources

Documentation PDFs:

- V-Mart_AI_Agent_v2.0_Release_Overview.pdf
- V-Mart_AI_Agent_v2.0_Release_Summary.pdf
- V-Mart_AI_Agent_v2.0_QA_Testing_Report.pdf
- V-Mart_AI_Agent_v2.0_QA_Completion_Summary.pdf

Online Resources:

- GitHub Repository: <https://github.com/ds25041974/V-Mart-Personal-AI-Agent>
 - Google Gemini API: <https://aistudio.google.com/app/apikey>
 - Google OAuth Setup: <https://console.cloud.google.com/>
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Download Now and Start Building with V-Mart AI Agent v2.0!

Production-ready, scalable, and secure AI chatbot platform