

# 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

## ■ Quick Download Summary

### All Available Versions

Version	Component	Platform	Installer	Size	Release Date	Status
**v2.0.0**	Chatbot Agent	Windows	`install-chatbot.bat`	10 MB	Nov 9, 2025	■ Latest
**v2.0.0**	Chatbot Agent	macOS	`install-chatbot.sh`	10 MB	Nov 9, 2025	■ Latest
**v2.0.0**	Chatbot Agent	Linux	`install-chatbot.sh`	10 MB	Nov 9, 2025	■ Latest
**v2.0.0**	Backend Server	Windows	`install-backend.bat`	15 MB	Nov 9, 2025	■ Latest
**v2.0.0**	Backend Server	macOS	`install-backend.sh`	15 MB	Nov 9, 2025	■ Latest
**v2.0.0**	Backend Server	Linux	`install-backend.sh`	15 MB	Nov 9, 2025	■ Latest
**v1.0.0**	Monolithic	Windows	`install.bat`	12 MB	Oct 2025	■■ Legacy
**v1.0.0**	Monolithic	macOS	`install.sh`	12 MB	Oct 2025	■■ Legacy
**v1.0.0**	Monolithic	Linux	`install.sh`	12 MB	Oct 2025	■■ Legacy

### Download Locations

#### v2.0.0 Release (Recommended):

- **Chatbot Agent:** [releases/v2.0-separated/chatbot-agent/\[platform\]/](https://releases/v2.0-separated/chatbot-agent/[platform]/)

- **Backend Server:**

`releases/v2.0-separated/backend-server/[platform]/`

**v1.0.0 Legacy:**

- **Monolithic Package:** `releases/v1.0/[platform]/`

## Quick Selection Guide

Your Need	Recommended Download	Installation Time
**Personal Use**	Chatbot Agent only (v2.0)	3-5 minutes
**Small Team**	Chatbot Agent + Backend (v2.0)	8-12 minutes
**Enterprise**	Multiple Chatbots + 1 Backend (v2.0)	15-30 minutes
**API Services**	Backend Server only (v2.0)	5-8 minutes
**Legacy Support**	Monolithic v1.0	5-10 minutes
**Migration from v1.0**	Chatbot Agent v2.0 first, then Backend	10-15 minutes

## ■■ 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

## ■ Version Comparison Chart

### v2.0 vs v1.0 Feature Matrix

Feature	v1.0 (Monolithic)	v2.0 (Separated)	Improvement
**Architecture**	Single integrated app	Chatbot + Backend	■■ 100% Modularity
**Deployment Options**	1 (All-in-one)	4 (Standalone, Backend, Enterprise)	■■■ 100% Flexibility
**Scalability**	Single instance	Multiple chatbots → 1 backend	■■∞ Horizontal scaling
**Auto-Start Service**	■ Manual start	■ System service	■■ New feature
**Crash Recovery**	■ None	■ Automatic restart	■■ New feature
**Installation Wizard**	■ Manual config	■ Interactive setup	■■ New feature
**Management Scripts**	■ Limited	■ Start/Stop>Status/Logs	■■ New feature
**Documentation**	3 guides	16 guides	■■ 433% More docs
**API Endpoints**	N/A	17+ RESTful endpoints	■■ New capability
**Database Support**	Limited	7 database types	■■ Enhanced
**RBAC Permissions**	Basic	23 granular permissions	■■ Enhanced security

**OAuth Integration**	Basic	Full Google OAuth	<span style="color: #0070C0;">█ █ Enhanced</span>
**Platform Support**	Windows, macOS, Linux	Windows, macOS, Linux	<span style="color: #0070C0;">█ Same</span>
**RAM Requirements**	4 GB	4 GB (chatbot), 8 GB (backer)	<span style="color: #0070C0;">█ █ Optimized per component</span>
**Installation Time**	5-10 min	3-5 min (chatbot), 5-8 min (backend)	<span style="color: #0070C0;">█ █ 40% Faster</span>
**QA Testing**	Basic	45 comprehensive tests	<span style="color: #0070C0;">█ █ Professional QA</span>
**Production Ready**	<span style="color: #0070C0;">█ █ Limited</span>	<span style="color: #0070C0;">█ Enterprise-grade</span>	<span style="color: #0070C0;">█ █ Full production support</span>

## Component Breakdown

Aspect	v1.0 Monolithic	v2.0 Chatbot Agent	v2.0 Backend Server
**Primary Function**	All-in-one AI agent	User interface	Data & API hub
**Target Users**	End users	End users	Developers, admins
**Installation Size**	12 MB	10 MB	15 MB
**Memory Usage**	4 GB	2-4 GB	4-8 GB
**Port**	8000	8000	5000
**Dependencies**	High	Low	Medium
**Update Frequency**	Monthly	Weekly (UI changes)	Quarterly (data changes)
**Downtime for Updates**	Required	Independent	Independent

## Migration Path

Migration Stage	Complexity	Time Required	Backward Compatible
**v1.0 → v2.0 Chatbot**	Low	10-15 minutes	<span style="color: #0070C0;">█ Yes</span>
**v1.0 → v2.0 Backend**	Medium	15-30 minutes	<span style="color: #0070C0;">█ Yes</span>
**v1.0 → v2.0 Full**	Medium	20-45 minutes	<span style="color: #0070C0;">█ Yes</span>
**Data Migration**	Low	5-10 minutes	<span style="color: #0070C0;">█ Automatic</span>
**Configuration Import**	Low	2-5 minutes	<span style="color: #0070C0;">█ Compatible</span>

## Recommended Version by Use Case

Use Case	v1.0	v2.0	Best Choice
**Personal Desktop Use**	■ Suitable	■ Better	**v2.0 Chatbot**
**Small Team (1-5 users)**	■ Suitable	■ Better	**v2.0 Full**
**Enterprise (10+ users)**	■ Not suitable	■ Ideal	**v2.0 Enterprise**
**API-Only Service**	■ Not available	■ Perfect	**v2.0 Backend**
**24/7 Production**	■■ Manual setup	■ Built-in	**v2.0 Full**
**Development/Testing**	■ Quick setup	■ Modular	**v2.0 Chatbot**
**Legacy System**	■ Keep using	■■ Migrate later	**v1.0**

## ■■ 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/](https://github.com/v-mart/v-mart-agent/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/v-mart-agent/releases/v2.0-separated/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

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### 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

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

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## 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/>

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## ■ 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
```

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## ✓ 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/>
- 

**Download Now and Start Building with V-Mart AI Agent v2.0!**

*Production-ready, scalable, and secure AI chatbot platform*