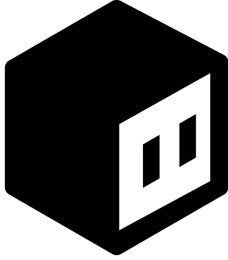


atupemAdd prisma dev dependency and update client to latest

3d37894 · 2 months ago499 Commits

.github/workflows	Update Docker definitons	5 months ago
docker	Implement a simplified version of th...	3 months ago
docs	Update Helm docs	3 months ago
helm	Update Helm docs	3 months ago
packages	Add prisma dev dependency and up...	2 months ago
static	Update README, discord links, and s...	4 months ago
.gitignore	Revamp build script, add run script	8 months ago
.prettierignore	Documentation updates	5 months ago
LICENSE	Update LICENSE	4 months ago
README.md	doc: add links to translated README ...	2 months ago

READMEApache-2.0 license



# bytebot

## Bytebot: Open-Source AI Desktop Agent

1GITHUB TRENDING  
#1 Repository Of The Day

An AI that has its own computer to complete tasks for you

Deploy on Railway




dockerreadylicenseApache 2.0discord74 online

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bytebot\_github\_login.mp4

0:00



bytebot\_uc\_2.mp4

About

Bytebot is a self-hosted AI desktop agent that automates computer tasks through natural language commands, operating within a containerized Linux desktop environment.

[www.bytebot.ai/](#)

#agent#docker#automation#ai#mcp

#desktop#gemini#openai

#desktop-automation#agents#gua#ai-agents

#ai-tools#llm#anthropic#agentic-ai

#computer-use#computer-use-agent#bytebot

Readme

Apache-2.0 license

Activity

Custom properties

9.6k stars

65 watching

1.2k forks

Report repository

Releases

No releases published








Packages3





bytebot-desktop

bytebot-agent

bytebot-ui

Contributors11





Languages

TypeScript92.1%

Dockerfile2.4%

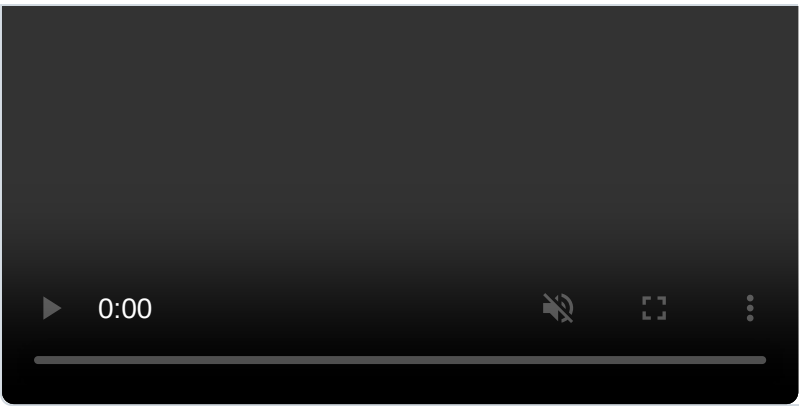
CSS2.0%

Smarty1.5%

PLpgSQL0.7%

Scheme0.7%

JavaScript0.6%



## What is a Desktop Agent?

A desktop agent is an AI that has its own computer. Unlike browser-only agents or traditional RPA tools, Bytebot comes with a full virtual desktop where it can:

- Use any application (browsers, email clients, office tools, IDEs)
- Download and organize files with its own file system
- Log into websites and applications using password managers
- Read and process documents, PDFs, and spreadsheets
- Complete complex multi-step workflows across different programs

Think of it as a virtual employee with their own computer who can see the screen, move the mouse, type on the keyboard, and complete tasks just like a human would.

## Why Give AI Its Own Computer?

When AI has access to a complete desktop environment, it unlocks capabilities that aren't possible with browser-only agents or API integrations:

### Complete Task Autonomy

Give Bytebot a task like "Download all invoices from our vendor portals and organize them into a folder" and it will:

- Open the browser
- Navigate to each portal
- Handle authentication (including 2FA via password managers)
- Download the files to its local file system
- Organize them into a folder

### Process Documents

Upload files directly to Bytebot's desktop and it can:

- Read entire PDFs into its context
- Extract data from complex documents
- Cross-reference information across multiple files
- Create new documents based on analysis
- Handle formats that APIs can't access

### Use Real Applications

Bytebot isn't limited to web interfaces. It can:

- Use desktop applications like text editors, VS Code, or email clients
- Run scripts and command-line tools
- Install new software as needed
- Configure applications for specific workflows

## Quick Start

### Deploy in 2 Minutes

Option 1: Railway (Easiest)



Just click and add your AI provider API key.

### Option 2: Docker Compose

```
git clone https://github.com/bytebot-ai/bytebot.git
cd bytebot

# Add your AI provider key (choose one)
echo "ANTHROPIC_API_KEY=sk-ant-..." > docker/.env
# Or: echo "OPENAI_API_KEY=sk-..." > docker/.env
# Or: echo "GEMINI_API_KEY=..." > docker/.env

docker-compose -f docker/docker-compose.yml up -d
```

```
# Open http://localhost:9992
```

[Full deployment guide →](#)

## How It Works

Bytebot consists of four integrated components:

1. **Virtual Desktop:** A complete Ubuntu Linux environment with pre-installed applications
2. **AI Agent:** Understands your tasks and controls the desktop to complete them
3. **Task Interface:** Web UI where you create tasks and watch Bytebot work
4. **APIs:** REST endpoints for programmatic task creation and desktop control

## Key Features

- **Natural Language Tasks:** Just describe what you need done
- **File Uploads:** Drop files onto tasks for Bytebot to process
- **Live Desktop View:** Watch Bytebot work in real-time
- **Takeover Mode:** Take control when you need to help or configure something
- **Password Manager Support:** Install 1Password, Bitwarden, etc. for automatic authentication
- **Persistent Environment:** Install programs and they stay available for future tasks

## Example Tasks

### Basic Examples

```
"Go to Wikipedia and create a summary of quantum computing"
"Research flights from NYC to London and create a comparison document"
"Take screenshots of the top 5 news websites"
```



### Document Processing

```
"Read the uploaded contracts.pdf and extract all payment terms and deadlines"
"Process these 5 invoice PDFs and create a summary report"
"Download and analyze the latest financial report and answer: What were the key risks mentioned?"
```



### Multi-Application Workflows

```
"Download last month's bank statements from our three banks and consolidate them"
"Check all our vendor portals for new invoices and create a summary report"
"Log into our CRM, export the customer list, and update records in the ERP system"
```



## Programmatic Control

### Create Tasks via API

```
import requests

# Simple task
response = requests.post('http://localhost:9991/tasks', json={
    'description': 'Download the latest sales report and create a summary'
})

# Task with file upload
files = {'files': open('contracts.pdf', 'rb')}
response = requests.post('http://localhost:9991/tasks',
    data={'description': 'Review these contracts for important dates'},
    files=files
)
```



### Direct Desktop Control

```
# Take a screenshot
curl -X POST http://localhost:9990/computer-use \
  -H "Content-Type: application/json" \
  -d '{"action": "screenshot"}'

# Click at specific coordinates
curl -X POST http://localhost:9990/computer-use \
  -H "Content-Type: application/json" \
  -d '{"action": "click_mouse", "coordinate": [500, 300]}'
```



[Full API documentation →](#)

# Setting Up Your Desktop Agent

## 1. Deploy Bytebot

Use one of the deployment methods above to get Bytebot running.

## 2. Configure the Desktop

Use the Desktop tab in the UI to:

- Install additional programs you need
- Set up password managers for authentication
- Configure applications with your preferences
- Log into websites you want Bytebot to access

## 3. Start Giving Tasks

Create tasks in natural language and watch Bytebot complete them using the configured desktop.

# Use Cases

## Business Process Automation

- Invoice processing and data extraction
- Multi-system data synchronization
- Report generation from multiple sources
- Compliance checking across platforms

## Development & Testing

- Automated UI testing
- Cross-browser compatibility checks
- Documentation generation with screenshots
- Code deployment verification

## Research & Analysis

- Competitive analysis across websites
- Data gathering from multiple sources
- Document analysis and summarization
- Market research compilation

# Architecture

Bytebot is built with:

- **Desktop:** Ubuntu 22.04 with XFCE, Firefox, VS Code, and other tools
- **Agent:** NestJS service that coordinates AI and desktop actions
- **UI:** Next.js application for task management
- **AI Support:** Works with Anthropic Claude, OpenAI GPT, Google Gemini
- **Deployment:** Docker containers for easy self-hosting

# Why Self-Host?

- **Data Privacy:** Everything runs on your infrastructure
- **Full Control:** Customize the desktop environment as needed
- **No Limits:** Use your own AI API keys without platform restrictions
- **Flexibility:** Install any software, access any systems

# Advanced Features

## Multiple AI Providers

Use any AI provider through our [LiteLLM integration](#):

- Azure OpenAI
- AWS Bedrock
- Local models via Ollama
- 100+ other providers

## Enterprise Deployment

Deploy on Kubernetes with Helm:

# Clone the repository  
git clone https://github.com/bytebot-ai/bytebot.git

```
cd bytebot

# Install with Helm
helm install bytebot ./helm \
  --set agent.env.ANTHROPIC_API_KEY=sk-ant-...
```

[Enterprise deployment guide](#) →

## Community & Support

- **Discord:** [Join our community](#) for help and discussions
- **Documentation:** Comprehensive guides at [docs.bytebot.ai](#)
- **GitHub Issues:** Report bugs and request features

## Contributing

We welcome contributions! Whether it's:

- 🐛 Bug fixes
- ✨ New features
- 📖 Documentation improvements
- 🌐 Translations

Please:

1. Check existing [issues](#) first
2. Open an issue to discuss major changes
3. Submit PRs with clear descriptions
4. Join our [Discord](#) to discuss ideas

## License

Bytebot is open source under the Apache 2.0 license.