

Setting up Xiaozhi AI Server



Overview

This document provides instructions for deploying the xiaozhi-server platform. For setting up a local development. XiaoZhi AI is an open-source intelligent voice robot based on ESP32-S3 development, integrating wake word detection, AI conversation, device control, and multi-protocol communication capabilities. [com/xinnan-tech/xiaozhi-esp32-server](https://github.com/xinnan-tech/xiaozhi-esp32-server) to deploy a local server and establish a connection with the ESP32 S3 WROOM. If you encounter any bugs in the code during use, please submit an issue at <https://github.com/xinnan-tech/xiaozhi-esp32-server/issues>. Use a mobile phone or computer to connect to the device's WiFi network: XiaoZhi-xxxxxx. Through this project, we aim to help more people get started with AI hardware development and understand how to implement rapidly evolving large language models in. This page guides you through the initial deployment of xiaozhi-server, from prerequisites to a running system. It covers the quickest paths to get both the manager-server (control plane) and backend-server (speech processing) operational, along with verification steps to confirm proper.



Article Content

Jun 22, 2026

Building the Brain Behind Your ESP32: A Deep Dive into

Building Smarter IoT Systems with xiaozhi-esp32-server The world of IoT has always been... Tagged with ai, iot, esp32, programming.

Aug 25, 2025

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Getting Started | xiaozhi-labs/xiaozhi-server | DeepWiki

Getting Started Relevant source files This page guides you through the initial deployment of xiaozhi-server, from prerequisites to a running system. It covers the quickest paths to get both the

Jan 15, 2026

Usage Guide - XiaoZhi AI

XiaoZhi AI Voice Robot Complete Usage Guide: Hardware Assembly, Firmware Installation, Network Configuration, Feature Usage and Detailed Tutorials

Feb 11, 2026

Tutorial on Deploying Xiaozhi Chatbot with Raspberry Pi

1. Create a py-xiaozhi virtual environment (Python version restriction: It is recommended to use Python 3.9.13+ version, with a maximum recommended version of 3.12)conda create -n py

May 23, 2026

Xiaozhi Card Kit Voice Assistant

Register XiaoZhi AI For first-time use, visit the XiaoZhi AI Control Panel, register, and log in. In the XiaoZhi AI Console, create a new agent. Click Add Device and enter the verification code displayed

Mar 28, 2026

Xiaozhi AI Chatbot Documentation | Xiaozhi Global

Explore the comprehensive documentation for XiaoZhi AI Chatbot, an open-source platform connecting AI models to the physical world. Discover embedded chips,

Aug 16, 2025

[XiaoZhi AI Frequently Asked Questions](#)

A: Yes, XiaoZhi AI is open source and customizable: Source code access: The source code is available on GitHub for developers Development environment: Set up the ESP-IDF development environment

Sep 22, 2025

[xinnan-tech/xiaozhi-esp32-server | DeepWiki](#)

The xiaozhi-esp32-server project provides a complete backend service infrastructure for ESP32-based voice-enabled IoT devices. It implements real-time audio processing, AI model

Dec 07, 2025

[Getting Started | txp666/xiaozhi-esp32 | DeepWiki](#)

This document provides a comprehensive guide for setting up, building, and deploying the XiaoZhi AI chatbot firmware on ESP32-based hardware. It covers the initial setup process,

Jul 11, 2025

[Xiaozhi AI Tutorial — AIChatBot documentation](#)

Xiaozhi AI Tutorial This project is based on xiaozhi-esp32. If you want to add your own features, you can follow the documentation for secondary development.

Nov 13, 2025

[Quick Start Guide | cyanmagentayellowblack/xiaozhi-esp32 | DeepWiki](#)

Quick Start Guide Relevant source files This guide provides step-by-step instructions for setting up and using the XiaoZhi ESP32 AI chatbot platform. It covers hardware selection, firmware

Nov 08, 2025

[Xiaozhi AI Tutorial — AIChatBot documentation](#)

Connect your phone to the hotspot named XiaoZhi-XXXX. The configuration page should open automatically. If not, you can manually enter in

Jun 10, 2026

[Installation and Deployment | xiaozhi-labs/xiaozhi-server | DeepWiki](#)

Installation and Deployment Relevant source files This document provides instructions for deploying the xiaozhi-server platform. It covers Docker-based deployment, environment setup, and

Mar 22, 2026

Xiaozhi AI Application Tutorial

Click the link to download the project: XiaoZhi AI Chatbot2 Click the link to refer to the ESP-IDF environment setup tutorial: ESP-IDF Environment Setup Compile and flash after selecting the device

Jun 22, 2026

Usage Guide - XiaoZhi AI

XiaoZhi AI requires network configuration for first-time use or when changing WiFi. For detailed network configuration methods, please refer to Network Configuration Instructions.

Jun 28, 2025

AI Voice Assistant Based on XiaoZhi AI — fnk0102-docs v1.0.0

The XiaoZhi server interface currently supports English, Chinese, and Japanese only. Additionally, mobile registration is only available for users in the following countries (see the table below).

Jan 28, 2026

Xiaozhi AI Chatbot Documentation | Xiaozhi Global

Discover how Xiaozhi's open-source AI chatbot platform integrates large AI models with real-world applications. Explore our end-to-end solutions, including

Dec 06, 2025

CoreS3 / CoreS3-SE XiaoZhi Voice Assistant

3 the Xiaozhi AI control panel, create a new intelligent agent. Click "Add Device" and fill in the verification code information displayed on the device to achieve device binding. 5.Getting Started

Mar 07, 2026

Local Server — fnk0102-docs v1.0.0 documentation

In this section, we will use the open-source project at github /xinnan-tech/xiaozhi-esp32-server to deploy a local server and establish a connection with the ESP32 S3 WROOM.

Aug 13, 2025

XiaoZhi AI Chatbot Documentation Center | XiaoZhi v

XiaoZhi AI is an open-source intelligent voice robot based on ESP32-S3 development, integrating wake word detection, AI conversation, device control, and multi-protocol communication

Jul 19, 2025

XiaoZhi AI Application Tutorial | WaveShare Documentation Platform

XiaoZhi AI Application Tutorial XiaoZhiAI (XiaoZhi AI) is an open-source AI voice chatbot project based on the ESP32 development board, aiming to bring the general intelligence of large language models

Apr 14, 2026

Configuration Guide | xiaozhi-labs/xiaozhi-server | DeepWiki

This guide provides comprehensive documentation for configuring the xiaozhi-server platform. It covers both the manager-server (control plane) and backend-server (data plane)

Aug 05, 2025

xiaozhiAI-esp32/README_en.md at main

Through this project, we aim to help more people get started with AI hardware development and understand how to implement rapidly evolving large language models in actual hardware devices.

Mar 10, 2026

Xiaozhi AI Application Tutorial

Almost all ESP32 products can be connected to the AI model, but it depends on how to use it. If the product has a microphone and speaker, it supports voice conversations. If not, you can only have

Contact Us

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