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# API Key Configuration
Configure AI providers for Scale's intelligent features.
## Supported Providers
### OpenAI
 **Models**: GPT-4, GPT-3.5-turbo
 **Best for**: General coding, chat, documentation
 **Setup**: [Get API key] (https://platform.openai.com/api-keys)
### Anthropic Claude
 **Models**: Claude-3, Claude-2
 **Best for**: Code analysis, complex reasoning
 **Setup**: [Get API key] (https://console.anthropic.com/)
### Google AI
 **Models**: Gemini Pro, Gemini Ultra
 **Best for**: Multimodal tasks, code generation
 **Setup**: [Get API key] (https://makersuite.google.com/app/apikey)
## Configuration Steps
1. **Open Scale Settings**
 - Command Palette: Ctrl+Shift+P
 - Type: "Scale: Settings"
 - Click on the settings option
2. **Enter API Key**
 - Select your provider from dropdown
3. **Test Connection**
 - Check response quality
## Security Best Practices
### API Key Security
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Use environment variables for team setups
### Enterprise Security
 Set usage limits per user/team
## Usage Optimization
### Cost Management
 Monitor token usage in analytics
 Implement caching for repeated queries
### Performance Tuning
 Choose models based on task complexity
 Optimize context window usage
 Cache frequent responses
## Troubleshooting
### Common Issues
 **Invalid API Key**: Double-check key format and permissions
 **Rate Limits**: Implement retry logic or upgrade plan
  **Network Issues**: Check firewall and proxy settings
 **Model Unavailable**: Verify model access in provider console
### Error Messages
  `500 Server Error`: Provider service issue
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