

AI-Assisted Azure Management

Automating Scripts, Queries, and Deployments



MC2MC
—CONNECT—

Aleksandar Nikolić



- Microsoft Azure MVP
- Co-organizer of PowerShell Conference Europe
- Co-founder of PowerShell Magazine



@alexandair.bsky.social



[redacted]



@alexandair



alexandair



alexandair



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The Collective



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AGENDA

- Microsoft Copilot in Azure
- AI Shell
- Visual Studio Code + extensions + MCP Servers

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Copilot in Azure



What is Copilot in Azure?

- AI-powered assistant for Azure management
- Natural language interface for cloud operations
- Unifies knowledge across 100+ Azure services
- Tailored to your resources and permissions
- Free with Azure subscription

Core Capabilities

- **Design:** Generate templates, discover patterns
- **Operate:** Create scripts, manage resources
- **Optimize:** Cost analysis, Advisor recommendations
- **Troubleshoot:** Diagnose issues, analyze health
- **Learn:** Ask questions, get best practices

Access & Features

- Portal and mobile app
- 19 languages supported
- Context-aware suggestions
- Secure, policy-compliant
- Responsible AI principles

Visual Studio Code and Azure



What is GitHub Copilot?

- AI-powered coding assistant in VS Code
- Code completions, chat, and autonomous coding
- Trained on public repositories
- Customizable with instructions, prompts, agents, and skills
- Free plan available, paid plans for extended usage

Core Capabilities

- **Code Completions:** Inline suggestions as you type
- **Agent Mode:** Autonomous multi-step task execution
- **Natural Language Chat:** Ask questions, request changes
- **Smart Actions:** AI-enhanced commit messages, fixes, search
- **Customization:** Instructions, prompts, agents, MCP servers

Azure Integration & Customization

- **@azure Extension:** Agent mode with Azure-specific tools
- **Custom Instructions:** `.github/copilot-instructions.md`,
`*.instructions.md`
- **Prompt Files:** Reusable `*.prompt.md` for common tasks
- **MCP Servers:** Connect external tools (Azure MCP, databases, APIs)
- **Multiple Models:** Switch between fast/reasoning models

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- **Use the right mode:** Choose ask mode for questions, edit mode for targeted edits, or agent mode for complex multi-step tasks.

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- **Use the right mode:** Choose **ask mode** for questions, **edit mode** for targeted edits, or **agent mode** for complex multi-step tasks.
- **Break down complex tasks:** Instead of asking for everything at once, break large tasks into smaller, manageable steps.

Thank you.

<https://www.linkedin.com/in/alexandair>



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**Session feedback
available in home feed
of the app after the
session**

