



On-board developers in 5 minutes!

@ Massimo Bonanni

21 November 2025



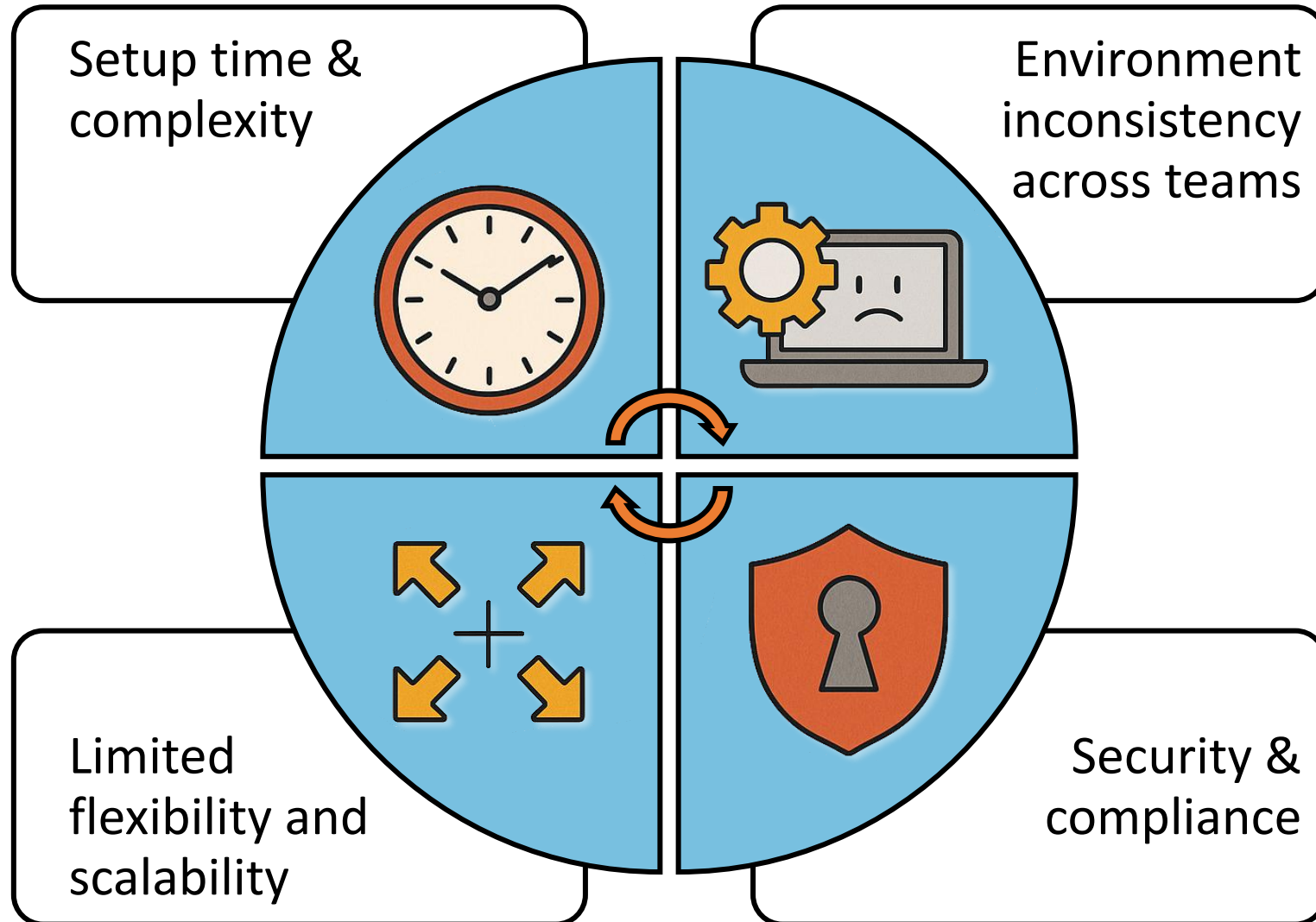
Traditional Dev Environment



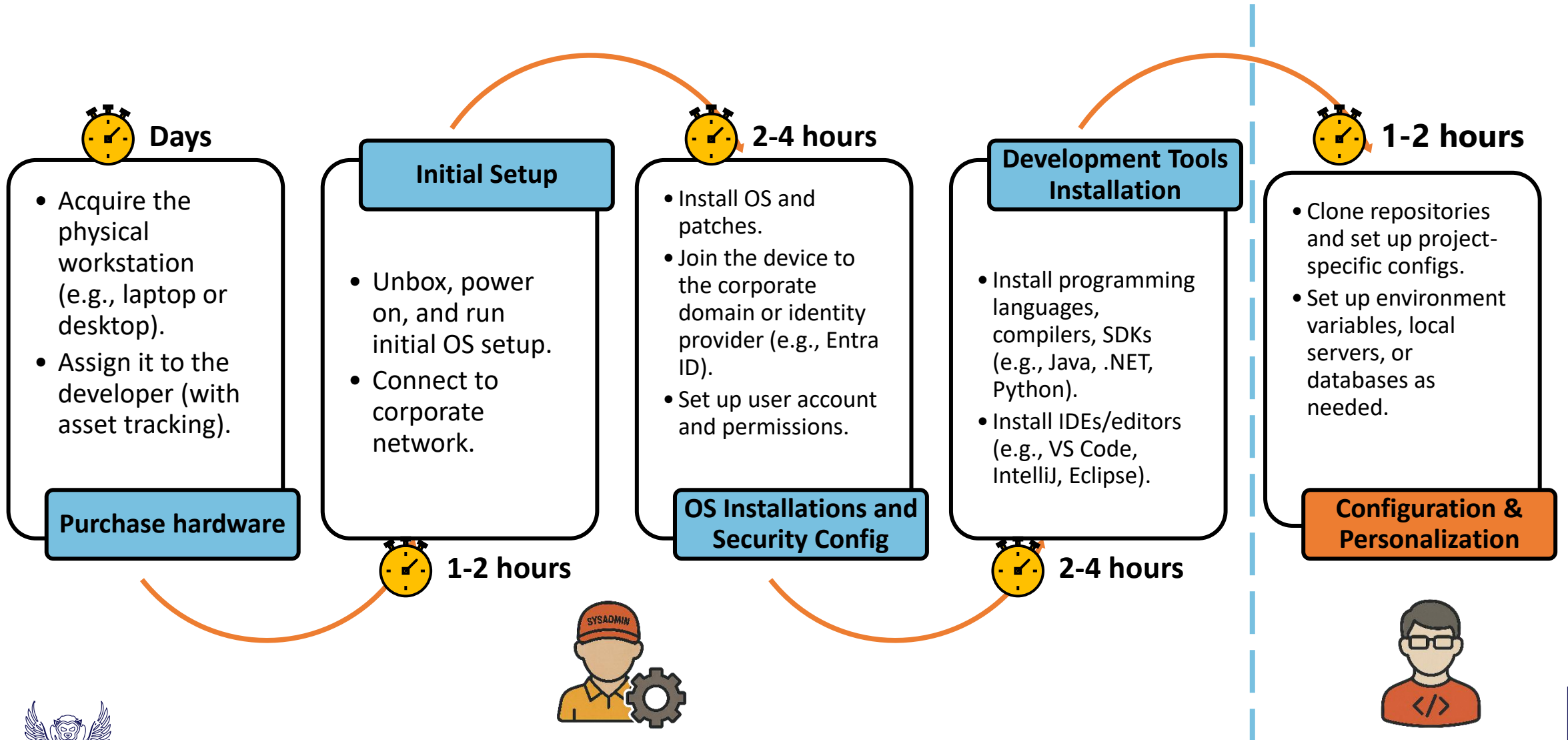
Cloud-Based Dev Environment



Challenges of Traditional Dev Environments



Challenges of Traditional Dev Environments

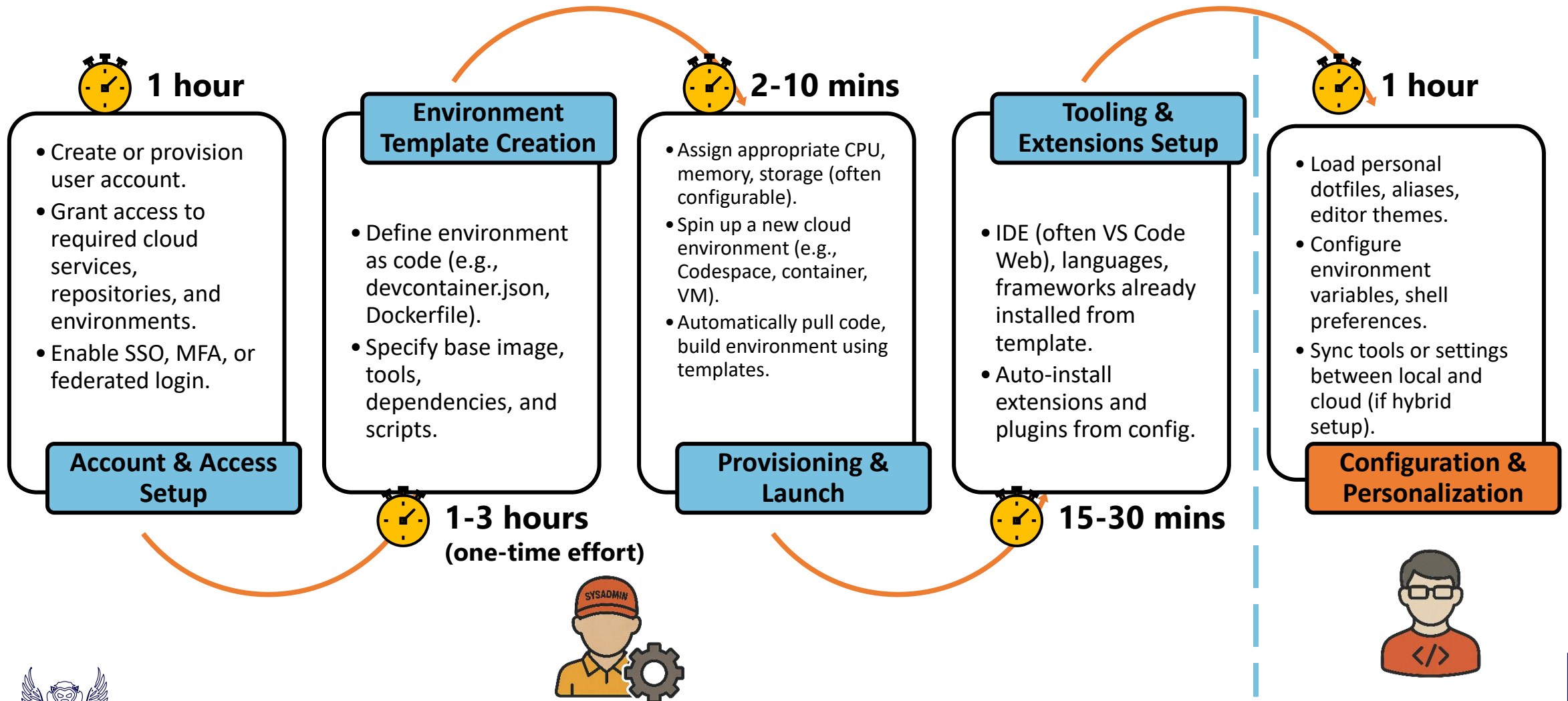


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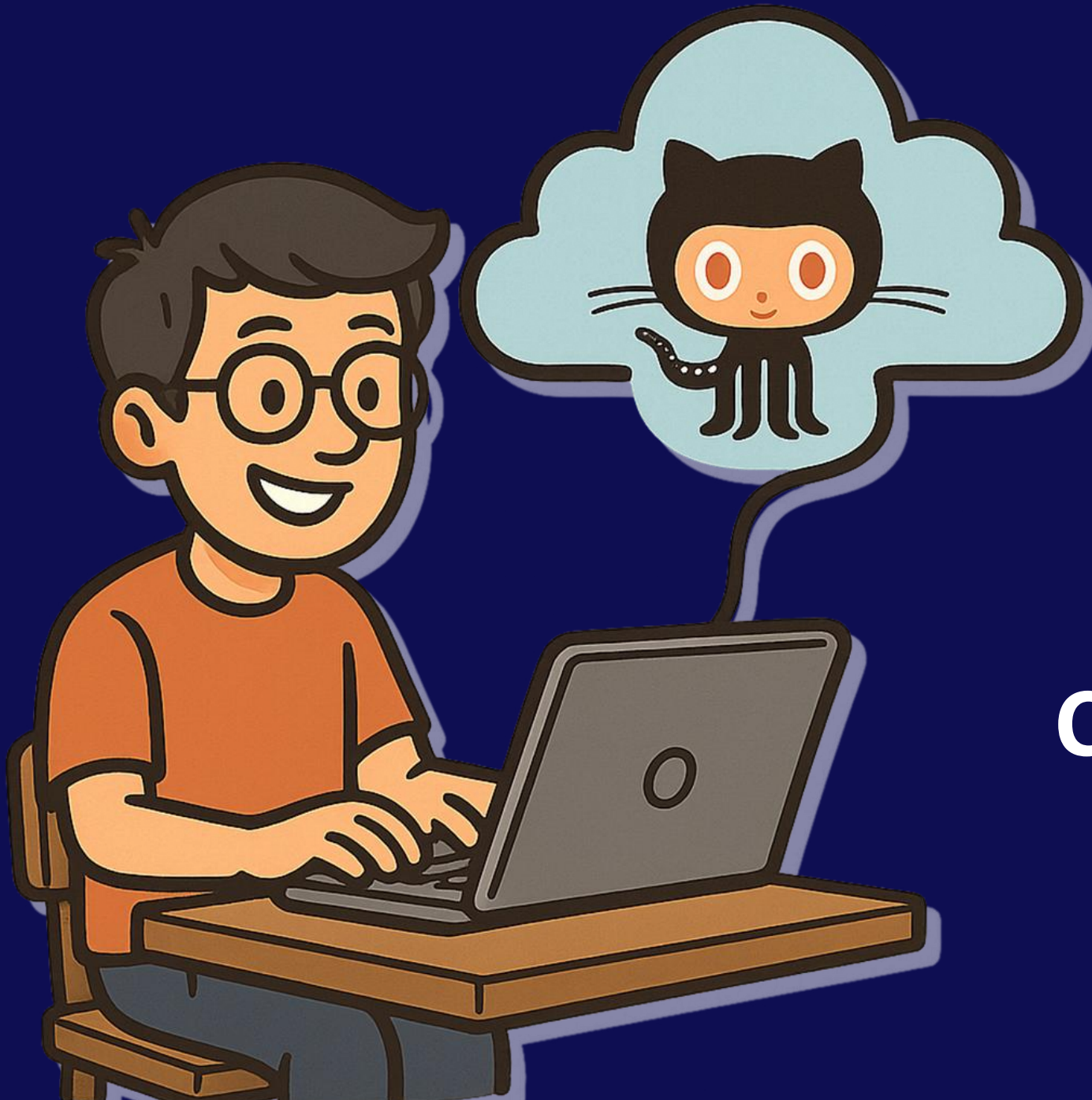


Cloud-Based Dev Environment Provisioning



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GitHub Codespaces



What are GitHub Codespaces?



Cloud-based IDE: Instantly launch fully managed coding environments directly from GitHub.



Customizable and Consistent: Uses containers (.devcontainer) to standardize developer setups.



Improves Collaboration: Easy sharing and collaborative coding without local setup hassles.



Secure and Scalable: Provides isolated, secure environments with automatic scalability.



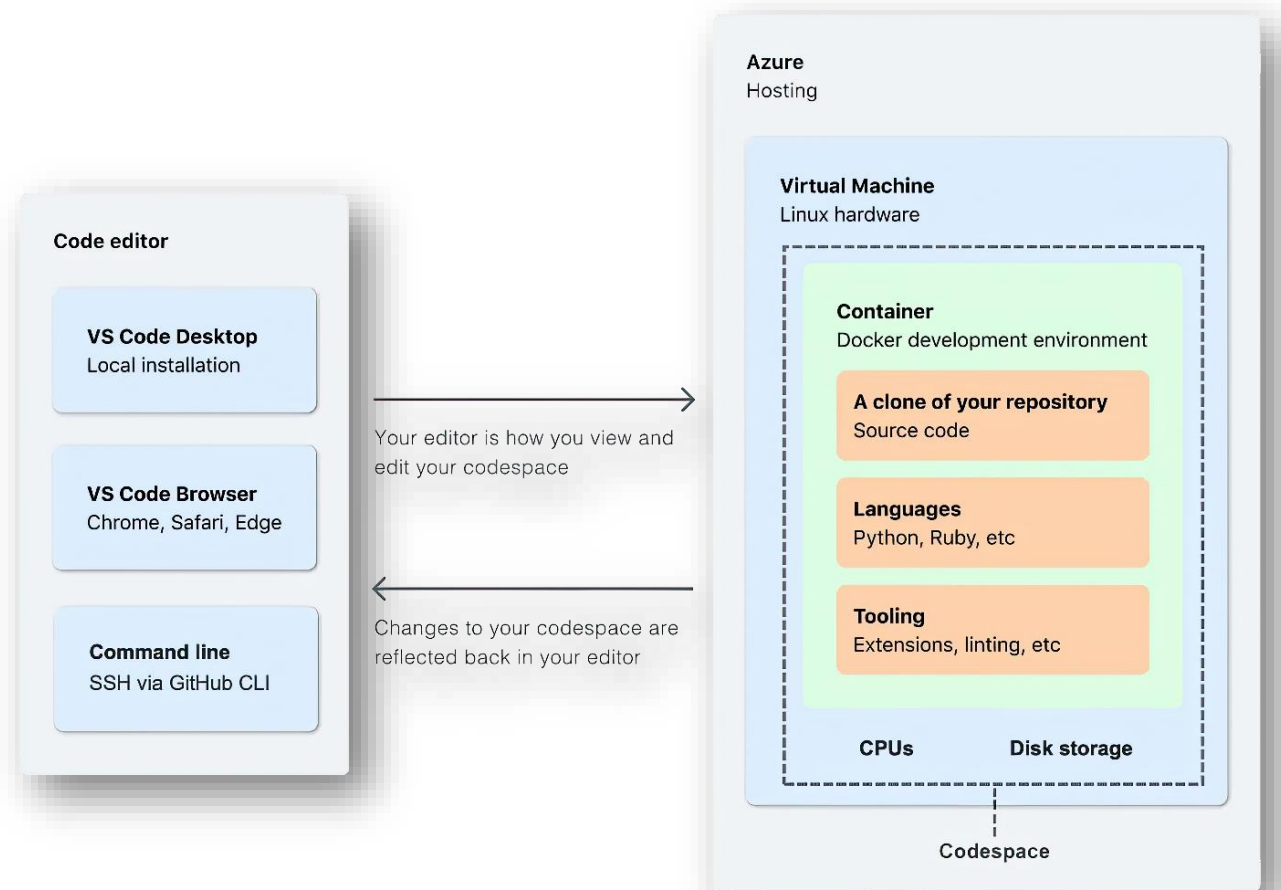
How they work

Each Codespace you create is hosted by GitHub in a **Docker container**, running on a **virtual machine**.

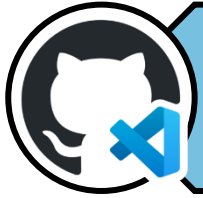
You can choose from a selection of virtual machine types.

By default, the Codespace development environment is created from an **Ubuntu Linux** but you can use an image based on a Linux distribution of your choice.

Windows and macOS are **not supported** operating systems



Where you can use



From a GitHub **template** or any template repository on GitHub to start a new project



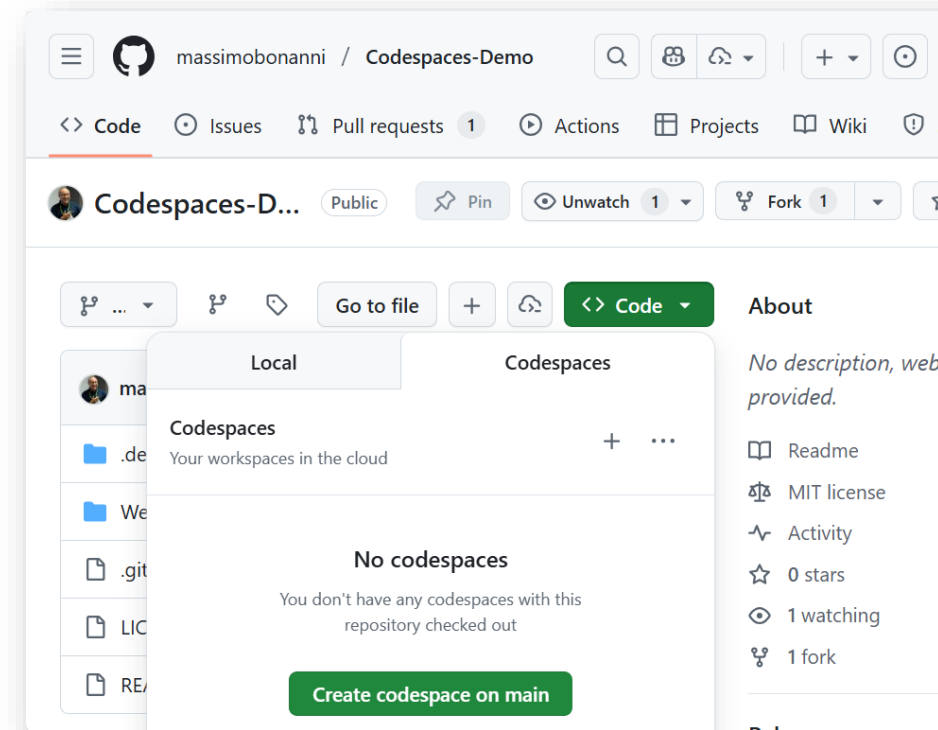
From a **branch** in your repository for new feature work



From an open **pull request** to explore work-in-progress



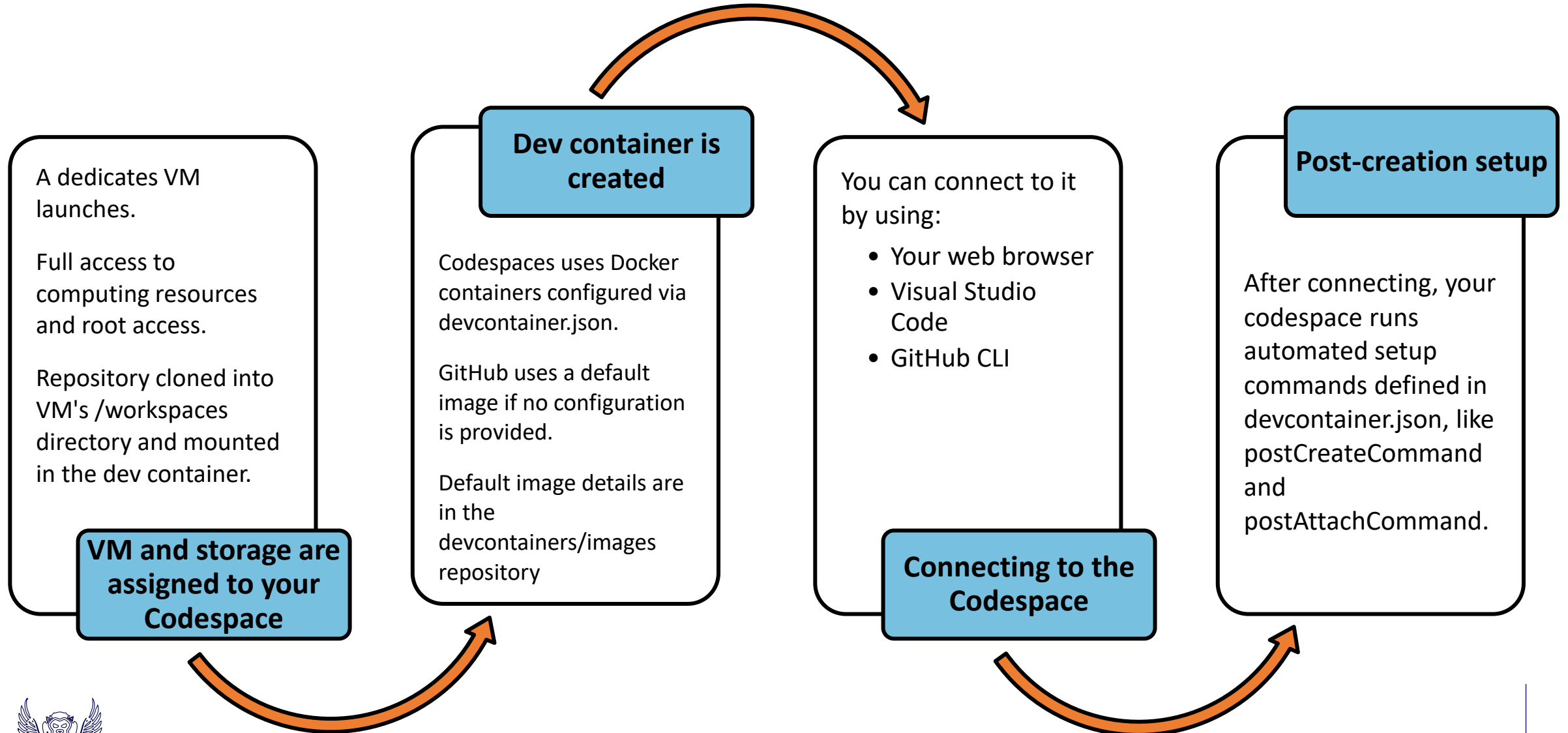
From a **commit** in a repository's history to investigate a bug at a specific point in time



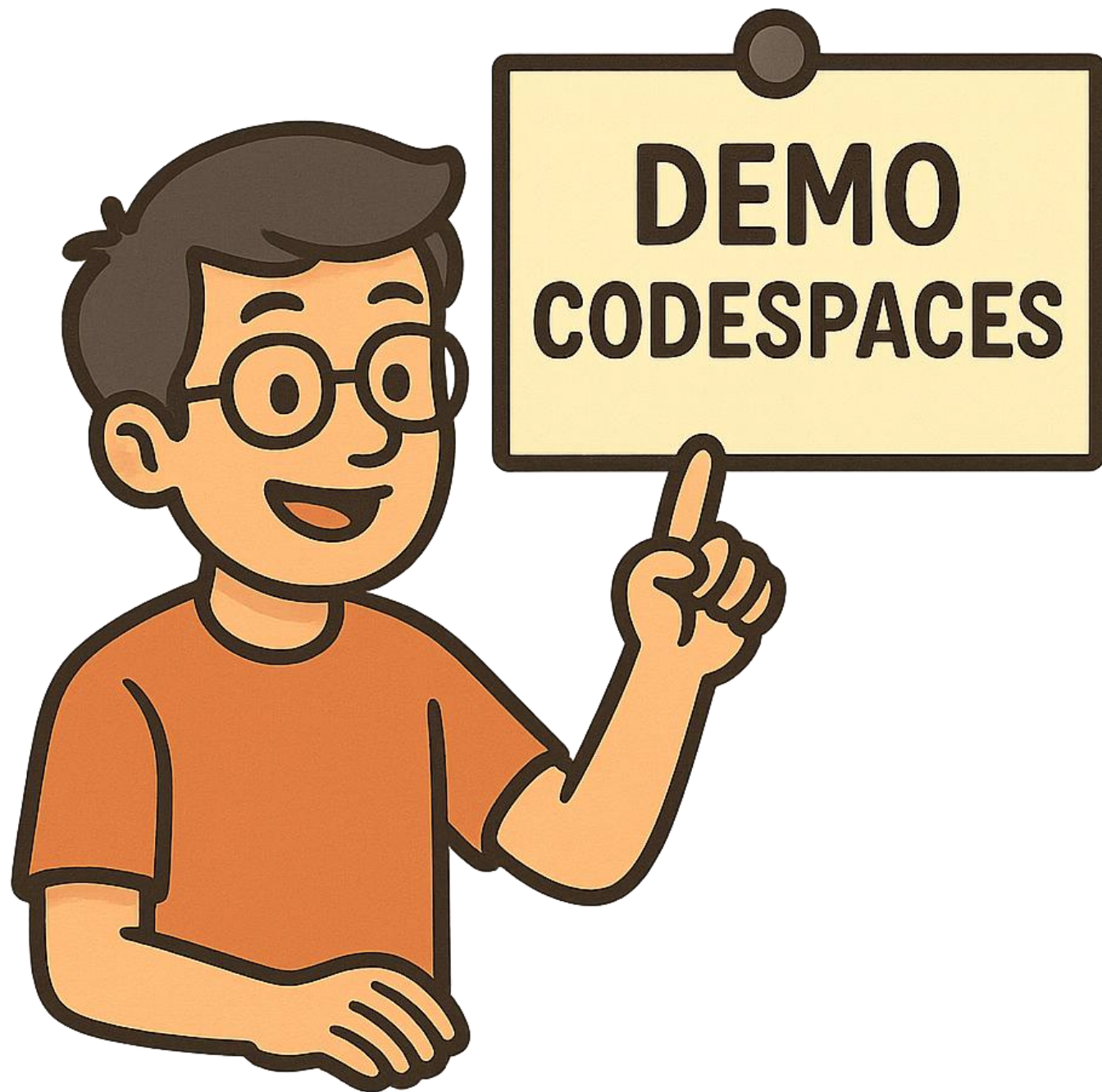
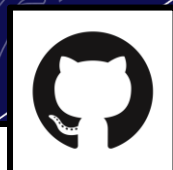
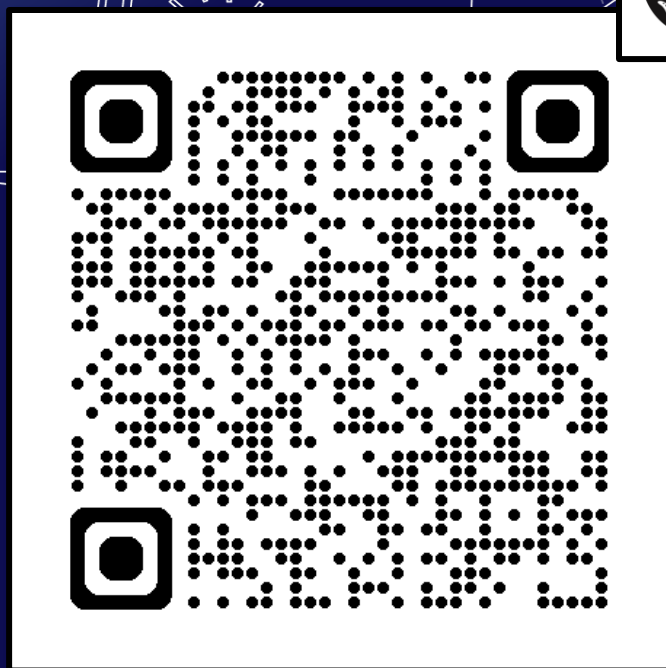
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The Codespace creation process



DEMO



Pricing

GitHub Codespaces utilizes a **usage-based** pricing system, charging for **compute time** starting at \$0.18 per hour for a 2-core machine and \$0.07 per GB of **storage** monthly.



Account plan	Storage per month	Compute time per month
GitHub Free for personal accounts	15 GB-month	120 hrs
GitHub Pro	20 GB-month	180 hrs

Organizations need a non-zero spending limit to use Codespaces and can manage costs by selecting machine types and usage policies.

Component	Machine type	Unit of measure	Included usage multiplier	Price
Codespaces compute	2 core	1 hour	2	\$0.18
Codespaces compute	4 core	1 hour	4	\$0.36
Codespaces compute	8 core	1 hour	8	\$0.72
Codespaces compute	16 core	1 hour	16	\$1.44
Codespaces compute	32 core	1 hour	32	\$2.88
Codespaces storage	Storage	1 GB-month	Not applicable	\$0.07



Benefit

Launch fully configured dev environments from your GitHub repo in seconds—no local setup needed.

Instant Environments



Use devcontainer.json for your environment, eliminating “it works on my machine” issue.

Consistent & Reproducible Setups



New team members can start immediately, without installing tools or configuring dependencies.

Simplified Onboarding



Offload heavy compute tasks to the cloud—ideal for lower-end devices or resource-intensive projects.

Cloud-Based Resource Efficiency



Work directly with pull requests, branches, and issues in a unified, GitHub-native workflow.

Seamless GitHub Integration



Access your environment securely via browser or VS Code desktop from any device.

Flexible Access from Anywhere



Each Codespace runs in its own container, ensuring isolation, security, and minimizing conflicts.

Secure & Isolated Environments

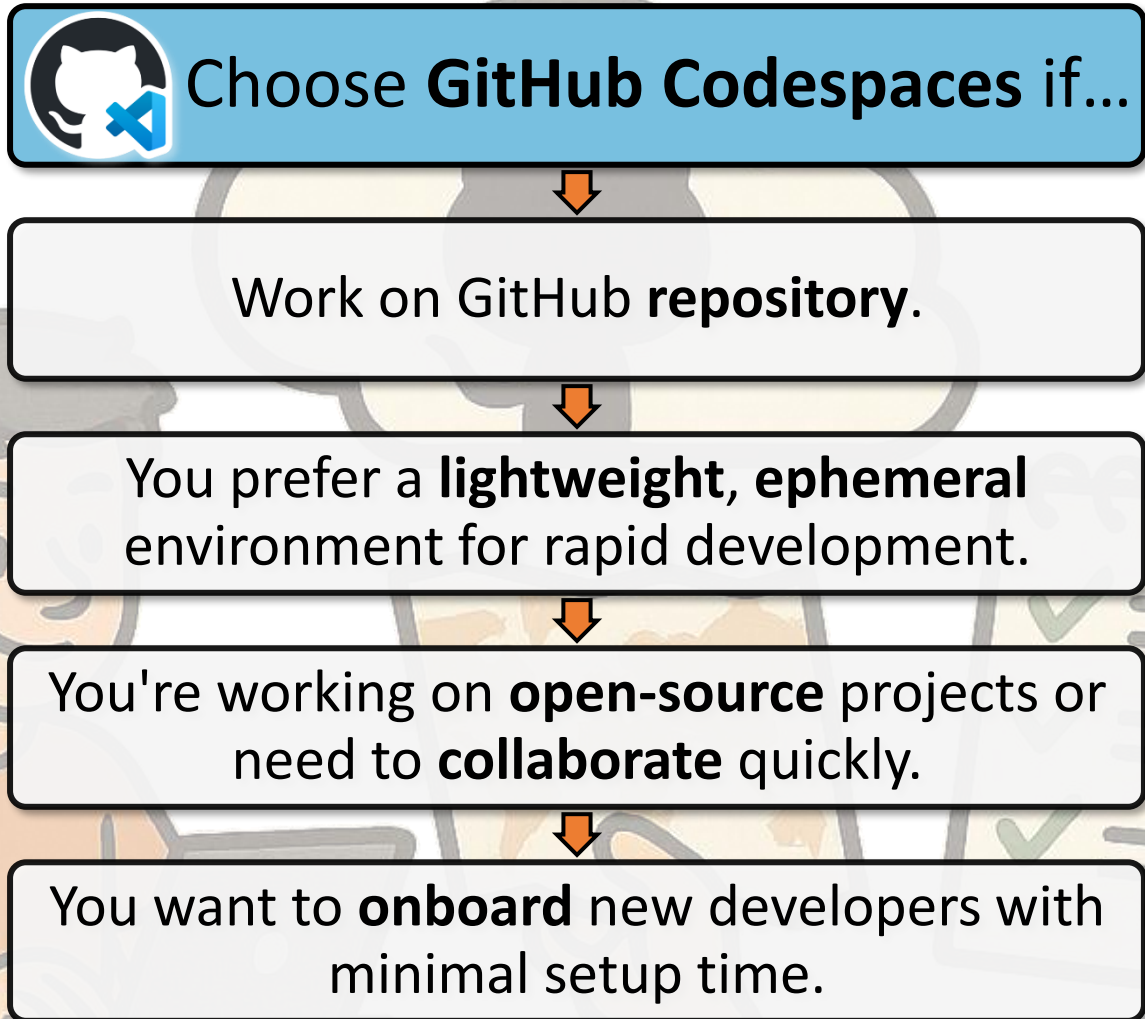


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When use GitHub Codespaces



> whoami



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Thanks for the
attention !!

Thanks.

