

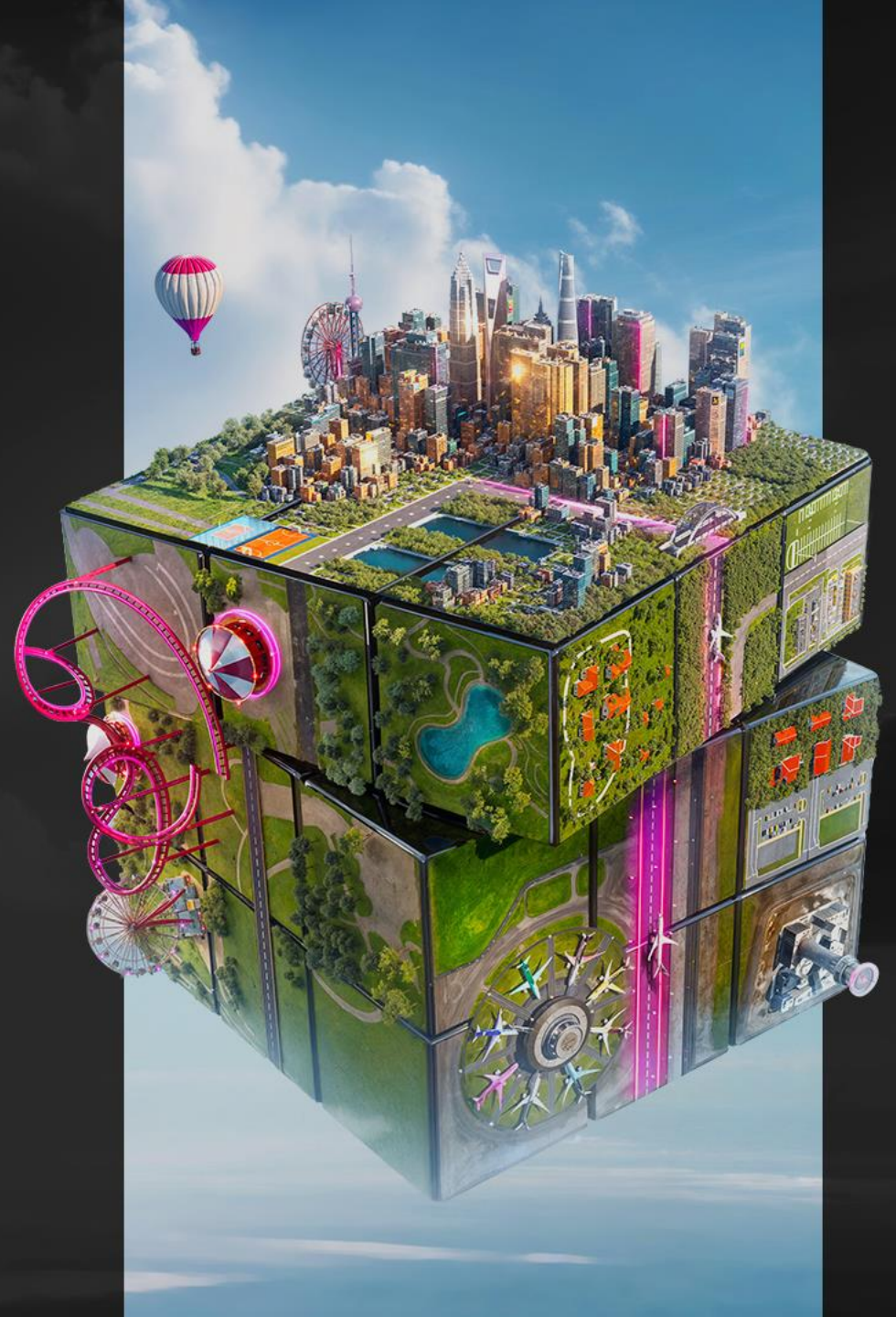
Cloud Development Environments

Accelerating and Enhancing Developer Experience
with Agentic AI Enablement

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Experience & Digital Engineering | Cloud
Data & GenAI | Quality Engineering

Cloud Platforms Service Lines
2025



Challenges Faced by Developers Today

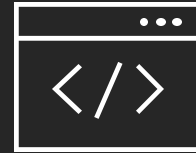
Software Developers are having to wear Multiple Hats the require a variety of skills



Software Engineer

Write high-quality code to deliver high-quality solutions to customers.

Python | Java | JavaScript | C# | C++ | SQL



Infrastructure Engineer

Manage complex cloud infrastructure & services across multiple environments

Terraform | Cloud-Formation | K8S | Containers | Databases



Security Engineer

Ensure appropriate guardrails are in place, cloud services are correctly configured, and application vulnerabilities are managed.

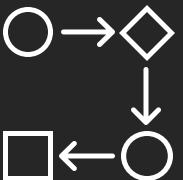
Policies | Code Vulnerabilities | Infra Security | Secrets Mgmt. | Threat Modelling



Test Engineer

Optimise application code & cloud services to ensure everything is running optimally.

Unit Testing | Performance Tests | Integration Tests



DevOps Engineer

Manage multiple deployment pipelines across multiple environments and for software applications and cloud infrastructure.

CI/CD | Automation | SRE | SCM



Legacy Process

Having to deal with legacy processes designed for an on-premise operating model, not the Cloud.

Raise Tickets | Review Board |

Developer Enablement Challenges

Productivity headwinds and friction points



Lengthy Onboarding

Developer onboarding is often measured in 'weeks,' delaying productivity and project timelines.



Inconsistent Standards

No centralized way to maintain environment standards, leading to the notorious "it works on my machine" issues.



High Equipment Costs

Developers increasingly need costly dedicated compute devices to handle resource-intensive tasks.



Outdated Software

Developer environments often run old, non-patched dependencies, posing security and compatibility risks.



Data Security Risks

Sensitive data and source code can be stolen from laptops, compromising intellectual property.



Compliance and Monitoring

Lack of insight or telemetry from local environments, changing license models, and no centralized way to audit developer activity increase compliance risks and hinder performance monitoring.

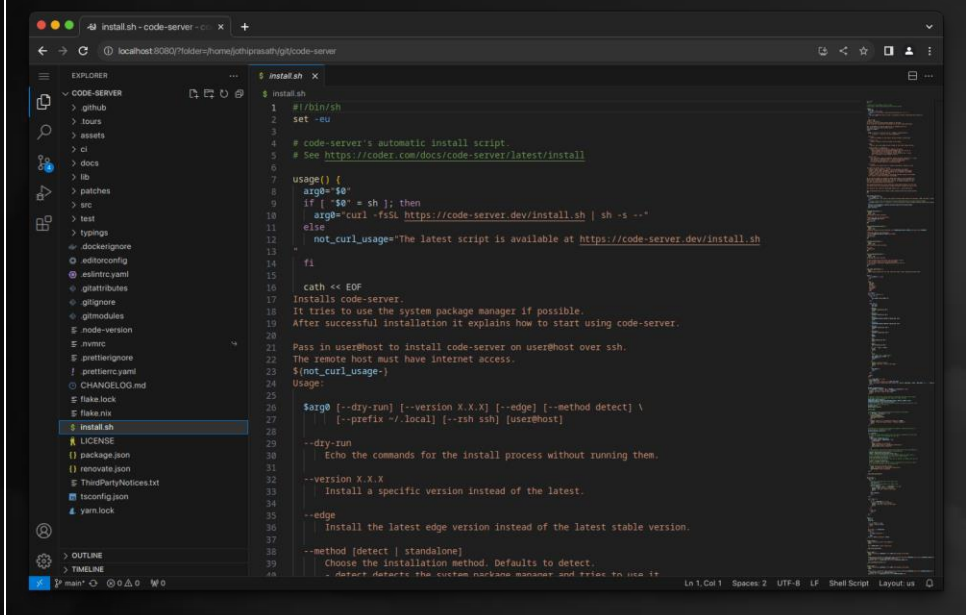
Introducing Cloud Development Environments

Ready-to-Use. Cloud-Hosted. Agent-Enabled

CDEs offer remote, consistent, and **ready-to-use development workspaces**—eliminating local setup friction and “it works on my machine” issues.

Built around the Coder.com technology stack and reference architecture, It **streamlines onboarding, enhance collaboration, and provides scalable cloud resources** for demanding workloads.

Beyond traditional use, **CDEs act as automation interfaces for Agentic development environments**—enabling autonomous execution of development, review, refactoring, analysis, and planning tasks through tools like Amazon Q, Microsoft Copilot, and Anthropic.



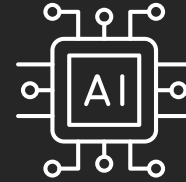
```
$ install.sh
1 #!/bin/sh
2 set -eu
3
4 # code-server's automatic install script.
5 # See https://coder.com/docs/code-server/latest/install
6
7 usage() {
8     args="$@"
9     if [ "$#" = 1 ]; then
10         args="curl -fsSL https://code-server.dev/install.sh | sh -s --"
11     else
12         not_curl_usage="The latest script is available at https://code-server.dev/install.sh"
13     fi
14     cat << EOF
15     Installs code-server.
16     It tries to use the system package manager if possible.
17     After successful installation it explains how to start using code-server.
18     Pass in user@host to install code-server on user@host over ssh.
19     The remote host must have internet access.
20     $(not_curl_usage)
21     Usage:
22     $argo [--dry-run] [--version X.X.X] [--edge] [--method detect] \
23         [--prefix ~/local] [--ssh ssh] [user@host]
24
25     --dry-run
26         Echo the commands for the install process without running them.
27
28     --version X.X.X
29         Install a specific version instead of the latest.
30
31     --edge
32         Install the latest edge version instead of the latest stable version.
33
34     --method [detect | standalone]
35         Choose the installation method. Defaults to detect.
36         - detect: Defaults to the system package manager and tries to use it.
```


Solution Features and Capabilities



Developer Experience

Decoupled from physical workstations, offering self-service capabilities to launch, configure, and manage development environments.



Comprehensive Tooling

Includes next-generation capabilities (such as GenAI) and integrates seamlessly with existing platform and tooling ecosystems.



Cloud Native

Our solution deployment & management is aligned with cloud native principals and gitops best practices and provides optimal scalability, flexibility, and performance



Security & Compliance

Meets stringent enterprise compliance and security standards with robust protection features.



FinOps

A variety of cost optimization features including rightsized resources and work hour scheduling drives down the cost of development tooling and the operational overhead relating to maintenance



Resilience & Recovery

Leveraging cloud native infrastructure and PaaS Services means that the solution seamlessly handles failures across all critical components without interrupting application availability

Thank you

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