

SURVEY FINDINGS

AI agents are building in the cloud before teams have made it safe to do so.

Dimensional Research surveyed 309 developers and team managers who build cloud applications at enterprises with more than 1,000 employees. The data shows teams giving AI agents cloud access while security, cost, and environment reliability remain unresolved.

01 – ACCESS

79%

give AI agents access to cloud environments

Agents have broader cloud access than most developers

45%

say all human developers have cloud access

26%

of teams granting access include production

48%

have adopted fully autonomous agents

02 – RISK

97%

have concerns about giving agents cloud access

Security, cost, and quality concerns remain unresolved

Leaked credentials



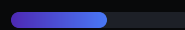
67%

Misconfigurations



62%

Increased cloud costs



53%

Nearly 40% of AI-generated code never reaches production, and 54% encounter more bugs in AI code than in human code.

Top concerns about AI agent cloud access

03 – ENVIRONMENTS

87%

wait two minutes or more for staging to reflect each code update

Agents lack a stable cloud development environment

42%

wait longer than 10 minutes per update

84%

share staging; 82% of them lose time to downtime weekly

9%

say staging fully matches production

“AI has moved the bottleneck. Writing code is no longer the slow part of the SDLC; validating it in the cloud is.”

LOCALSTACK, STATE OF AI IN CLOUD DEVELOPMENT 2026

Cloud-Quality Sandboxes, **Isolated From the Cloud.**

LocalStack is a local cloud development platform. It gives every developer, AI agent, and pipeline a production-grade sandbox to validate cloud applications securely, rapidly, and efficiently at scale, with no access to shared or production infrastructure.

AI AGENTS

A safe place for agents to deploy and test

Agents build against an isolated sandbox instead of real accounts. No live credentials to leak, no misconfigurations reaching shared environments, no surprise cloud bills.

DEVELOPERS

Feedback faster than the cloud allows

Each developer gets a dedicated sandbox in place of a shared staging queue. App Inspector and IAM Policy Stream surface failures before deployment.

CI/CD PIPELINES

Production-grade tests on every commit

Ephemeral sandboxes run the same IaC and application code as AWS. Deploy to production by changing one endpoint.

IMPACT ON ENGINEERING PERFORMANCE

Deployment frequency

20%

increase in deployment frequency¹

Lead time for changes

30%

less dev and test time at OpenFabr; 70% faster resource creation vs. AWS at PayNetWorx

Mean time to recovery

Up to **70%**

less debugging time with App Inspector²

Cloud cost optimization

25%

reduction in cloud spend by moving dev and test off the cloud bill¹

TRUSTED BY ENTERPRISE ENGINEERING TEAMS

 **ATLASSIAN**

 **Red Hat**

 **GE HealthCare**

 **splunk**
a CISCO company

 **RYANAIR**

 **itaú**

 **BANQUE NATIONALE**

 **VARONIS**

 **DTN°**

1,500+

customers

400M+

Docker pulls

8M+

weekly sessions

500+

open source contributors

Model the impact for your organization.

Review your deployment, cost, and AI agent goals with our team.

[Talk to Sales](#)