

aws marketplace

LocalStack

Reviews, tips, and advice from real users



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Product Recap



LocalStack

LocalStack Recap

LocalStack is a cloud service emulator that enables developers to build and test cloud applications entirely on their local machines, simulating relevant AWS features to enhance efficiency.

LocalStack offers an accessible environment for rapid cloud development and testing cycles, reducing the dependency on cloud-based infrastructure during the early stages of software development. It is especially useful for teams aiming to minimize costs and time delays caused by deploying to remote services during development. LocalStack integrates through simple configurations, making it adaptable within development pipelines to ensure smooth, local testing of cloud-based applications.

What are LocalStack's key features?

- **Full AWS Service Emulation:** Provides vital AWS services such as Lambda and S3 for local testing.
- **Cost Efficiency:** Reduces cloud service costs by enabling local testing.
- **Seamless Integration:** Easily integrates with existing development workflows.
- **Environment Reproducibility:** Ensures consistent test environments using Docker.
- **Community Support:** Access to robust community contributions and plugins.

What benefits and ROI should users consider?

- **Cost Reduction:** Massive savings by limiting cloud resource utilization during development phases.
- **Time Savings:** Faster local testing reduces deployment time to production.
- **Enhanced Collaboration:** Promotes teamwork by allowing shared, local test environments.
- **Resource Efficiency:** Optimizes local resources without the need for cloud infrastructure investment upfront.

In industries like technology and finance where cloud applications are prevalent, LocalStack serves as a valuable tool by enabling quick iteration and testing of cloud configurations. It is integrated into CI/CD pipelines to streamline local development, allowing developers in these fields to build robust, reliable cloud solutions without immediate reliance on external services.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- ✓ “Using LocalStack has positively impacted my organization by saving 50-60% of our money because of using LocalStack and AWS resources on our local environment.”



Harshal Jethwa

Cloud Engineer at a educational organization with 501-1,000 employees

- ✓ “All of the features LocalStack offers are great, including AWS services such as S3, SNS, and SQS.”



Rodrigo Vilela

Specialist Backend Engineer at a computer software company with 1,001-5,000 employees

- ✓ “Organizations should definitely check out LocalStack if they want to reduce their development and testing costs.”



Vikas Kejriwal

Engineering Manager at a comms service provider with 11-50 employees

- ✓ “Some features of LocalStack that stand out for me are that I have the opportunity to integrate with many third-party systems, and for example, I used it in connection with PostgreSQL because we needed to use a shared database.”



Verified user

Senior Software Engineer at a outsourcing company with 1,001-5,000 employees

- ✓ “LocalStack positively impacts my organization because it is used across the organization, increasing the productivity of all team members, not just developers but also QAs sometimes.”



Alexandre Miguel Costa

Senior Engineer at Integer Consulting

- ✓ “LocalStack has positively impacted my organization by improving the quality of the software and allowing us to test comprehensively.”



Verified user

Software Engineer at a tech services company with 501-1,000 employees

What users had to say about valuable features:

“The best features LocalStack offers are DynamoDB and container tests. I use a lot of testing containers, and it has helped me significantly.

“LocalStack helps me with containers because it is easy to configure. I write my tests and when I need to deploy an application, all my tests are running in my pipeline through my DevOps process, and I can guarantee there is quality in my code. I have a container with LocalStack testing everything.

“LocalStack has positively impacted my organization by improving the quality of the software and allowing us to test comprehensively..”

Verified user

Software Engineer at a tech services company with 501-1,000 employees

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“The best feature LocalStack offers is its seamless integration with AWS Toolkits for Visual Studio.

“The seamless integration with AWS Toolkits for Visual Studio reduces our development time. Additionally, it significantly reduces our cloud cost because it eliminates the need for us to frequently sign up and tear down any real AWS resources to validate our requests.

“Since we are developing and testing locally, LocalStack reduces our server cost significantly. There is no latency, so our development and testing time is reduced significantly..”

Vikas Kejriwal

Engineering Manager at a comms service provider with 11-50 employees

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“The best features LocalStack offers include an extensive simulation of several AWS products, such as DynamoDB, SQS, and authentication. Several products facilitate the lives of software engineers when coding and testing connections or data from DynamoDB or storing that data. It is very important to have pre-made mocks instead of wasting time creating them to test our microservices. This is a great help.

“LocalStack positively impacts my organization because it is used across the organization, increasing the productivity of all team members, not just developers but also QAs sometimes. It is an extensive tool with many AWS products, and since we are in a company that primarily works with the AWS cloud, this is very positive and easy to work with LocalStack. We do not have many configurations to do or anything very tricky; we just lift a Docker container with configurations available on the internet, making all developers and QAs very productive and contributing to the increased delivery of our product organization..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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“The best features LocalStack offers include the ability to test everything locally at no cost for AWS, a faster development and instant feedback cycle, offline deployment without needing internet, and it's excellent for learning AWS in a sandbox environment.

“Out of those features, I find myself relying on the ability to run it locally for testing at no cost the most.

“Using LocalStack has positively impacted my organization by saving 50–60% of our money because of using LocalStack and AWS resources on our local environment.

“I calculated that 56% savings mostly on infrastructure cycle because if we use AWS, we have to pay for those resources, but by using LocalStack, we do not need to provision resources on AWS, so that is how we are saving that percentage..”

Harshal Jethwa

Cloud Engineer at a educational organization with 501-1,000 employees

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“All of the features LocalStack offers are great, including AWS services such as S3, SNS, and SQS. The ability to test my application without deploying it to the environment is really beneficial.

I use LocalStack exclusively and do not use other tools. My experience using LocalStack is very good, and I use S3 and databases the most. I run integration tests on containers, build, and deploy LocalStack services, which works very well.

The development environment is complex and not simple. I cannot test my application locally without using LocalStack. All of my applications run on AWS services, and LocalStack plays a fundamental role in my daily work because I need to test my applications locally. Testing applications that integrate with AWS services locally before deploying them to the AWS account is essential.

LocalStack saves me significant time. Without it, whenever I need to test my application, I would have to deploy it to AWS services, which takes a long time. LocalStack allows me to test locally and saves me time before deploying and testing in the AWS account..”

Rodrigo Vilela

Specialist Backend Engineer at a computer software company with 1,001-5,000 employees

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Other Solutions Considered

“We did not have a different commercial solution before; it was custom mocks created by us with Docker containers, solely through code implementation. We also had some mocks using Mockoon, but they did not simulate AWS products..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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“I did not evaluate other options before choosing LocalStack because it was the first solution that came to mind, and after searching the internet, I found it to be a great product. I did not feel the need to spend time evaluating other options since we are using the free version. If we decide to transition to the paid version in the future, then we may need to evaluate other options to see which is best for our company..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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ROI

Real user quotes about their ROI:

“In terms of return on investment, we do not have a metric for fewer employees needed because we are increasing our workforce due to many projects. However, I can state that time saved is about ten to fifteen percent across the company in the testing area, not in the implementation area but in testing. Consequently, since time is saved, we have also saved about five percent of the money. This is not equal to the time saved because we have no costs with LocalStack, but it is approximately that much.

“I can share specific outcomes or metrics I have seen as a result of using LocalStack. We eradicated the time we spent maintaining custom mocks, which was about ten hours per month, and we also eliminated the time spent creating mocks, which could take around two or three days for each mock, depending on the project. Additionally, the time spent testing is reduced by about twenty percent because LocalStack is very reliable, while the mocks we created always required tweaks to make them work. That increased productivity, and we have specific metrics reflecting that..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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Use Case

My main use case for LocalStack is for tests on my machine. For example, when I want to create a table in AWS, I create a LocalStack and use it in my tests before I publish the Terraform. I also create my application container and create the tables in LocalStack for running all my tests. I use not only tables, but also SQS and SNS. I only have features that I use to add about my main use case for LocalStack, to be honest.

Verified user

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Software Engineer at a tech services company with 501-1,000 employees

“The main use case for LocalStack was about simulation in order to have a low impact on costs for our AWS environments.

“An example of how I use LocalStack is to have a simulation for our Vault, where we store our secrets. The way we store it was to have an internal software that we can give to others who are non-technical..”

Verified user

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Senior Software Engineer at a outsourcing company with 1,001-5,000 employees

“My main use case for LocalStack is to set up a configuration for my environment to configure the AWS components locally on my machine. I use it to have all the components I need to run my applications locally and simulate the use cases of my applications with AWS services.

I use LocalStack to test database services like DynamoDB, test SNS services, and SQS to send messages. Another configuration that I use is Secrets Manager..”

Rodrigo Vilela

Specialist Backend Engineer at a computer software company with 1,001-5,000 employees

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“My main use case for LocalStack is to run AWS services locally on our machines, such as running on our laptop or on our server, and for a sandbox for testing our cloud apps.

“A quick, specific example of how I use LocalStack for testing my cloud apps is that we use LocalStack for a sandbox or staging environment for AWS resources. We test it on LocalStack, and if everything works well, then we deploy it to AWS..”

Harshal Jethwa

Cloud Engineer at a educational organization with 501-1,000 employees

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“My main use case for LocalStack is to validate Docker services that are using AWS components like DynamoDB or SQS queues, things around AWS products.

“A quick specific example of how I use LocalStack is that our product uses a lot of DynamoDB, so I need an instance that simulates DynamoDB when our microservices are contacting with the database repository. In this case, LocalStack provides the DynamoDB mock that allows us to validate and test our services..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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“Our organization uses LocalStack to develop a fully functional local cloud emulator. It helps us to develop and run our cloud applications and test them entirely on our local machine.

“We develop several complex architectures which can be developed serverless. We do not need to deploy or wait for the cloud during development if we use LocalStack. It also helps us to develop our application offline where we do not have access to the internet, in remote areas, or if we are on a plane.

“Using LocalStack helps our team collaboration. Different members of our team can use this cloud infrastructure and can share and save their work..”

Vikas Kejriwal

Engineering Manager at a comms service provider with 11-50 employees

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Customer Service and Support

“I would describe the customer support of LocalStack as great since I have never needed it; not needing customer support is a positive aspect in my view..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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Other Advice

“Organizations should definitely check out LocalStack if they want to reduce their development and testing costs. Developers can save a lot of time and it is also a benefit for companies as it saves a lot of money that they would otherwise have spent on AWS infrastructure.

“Regarding LocalStack's AI capabilities, I believe there is no problem in case of security. We fully trust that. We have not noticed any security concerns with LocalStack's AI capabilities. Regarding LocalStack's AI capabilities, I think it is pretty reliable. I would rate this review an eight out of ten..”

Vikas Kejriwal

Engineering Manager at a comms service provider with 11-50 employees

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“For example, sometimes I just do a proof of concept. Instead of creating a [Terraform](#) and publishing on [AWS](#) and having to create my table and my query over there, I do not need to do everything when doing a proof of concept on my machine. It has helped me a lot. I create a LocalStack and everything is working.

“For the features that I use, I would say LocalStack deserves a 10 because I do not use any other features. I give LocalStack a 10 because it is pretty easy. I run my container on my machine and everything is working. It is pretty easy to create an SQS and SNS. For the features that I use, it is perfect and easy. I rate this review a 10..”

Verified user

Software Engineer at a tech services company with 501-1,000 employees

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“I would like to add that LocalStack is an excellent provider or simulator for DynamoDB, so we can rely on the results at least at the local level. However, we must perform the performance tests with AWS itself because we need to evaluate the performance and also the user experience with the actual latency that is provided by AWS.

“LocalStack is deployed on-premises, specifically used on each local computer of the developers. We do not have a central installation of LocalStack; each one of us has an installation on our local computer to conduct local tests before performing further tests with AWS.

“My advice for others looking into using LocalStack is that if they are working with AWS products, it provides great value because it offers most AWS products for free and simulates them quite well, allowing us to create services, microservices, or Docker containers that communicate with these products. You can simulate almost all the main operations you need to test and then have the confidence to test with the actual AWS components in the cloud.

“My additional thought about LocalStack is to encourage them to keep up the good work with the product and improve LocalStack components, as I trust the market will adopt LocalStack because it is a very good product. I would rate this product nine out of ten..”

Alexandre Miguel Costa

Senior Engineer at Integer Consulting

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