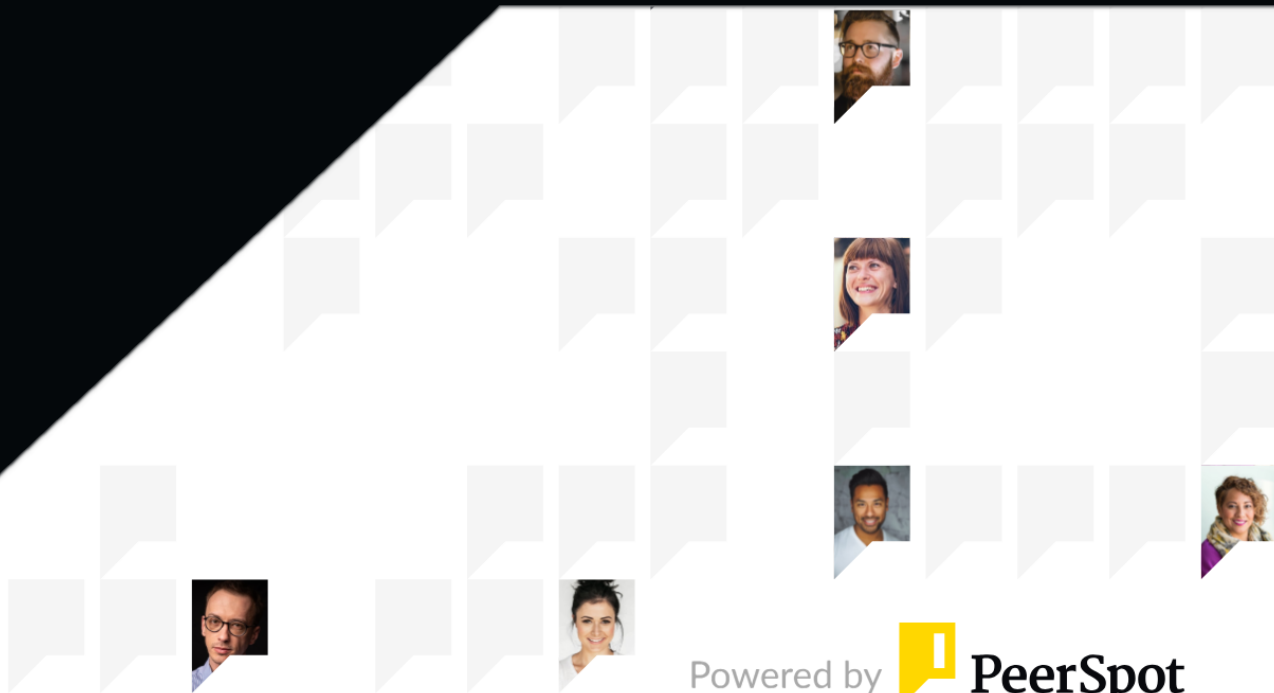


aws marketplace

LocalStack

Reviews, tips, and advice from real users



Powered by  PeerSpot

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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



“LocalStack positively impacts our organization by improving cost since it runs locally without any expenses, speeding up development because we can catch all errors beforehand, and testing the entire flow before going live, making it a win-win scenario and a must-have tool that has shown significant positive outcomes.”



Ruturaj Kadam

Software Engineer at a tech vendor with 1,001-5,000 employees

- ✓ “The positive impact on our organization has been massive, primarily visible in three key outcomes.”



Verified user

Developer at a educational organization with 51-200 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

- ✓ “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

- ✓ “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

Software Engineer at a media company with 1,001-5,000 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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“The best features that LocalStack offers include comprehensive API coverage, as it seamlessly emulates over AWS services such as S3, Lambda, DynamoDB, and SQS locally, which keeps our development environment incredibly accurate. The `awslocal` CLI wrapper is another feature that we heavily utilize. Cloud Pods allow our team to take snapshots of our local state and easily share them with other developers to reproduce specific bugs or environments instantly. Another valuable feature is Hot Swapping Lambda functions.

“The `awslocal` CLI wrapper and Hot Swapping Lambda have completely transformed our development speed. The `awslocal` wrapper saves us from writing tedious scripts full of custom endpoint URL parameters, allowing us to run standard AWS commands seamlessly, which means our onboarding time for new developers dropped to almost zero since they do not have to learn proprietary syntax. A specific example where Hot Swapping made a huge difference was during a major refactor of an image processing pipeline. We had a complex Lambda function parsing metadata, and we were hitting edge case bugs with a specific format. Normally, fixing this would involve a slow cycle of changing the code, rebuilding the container, redeploying locally, and triggering again..”

Verified user

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Developer at a educational organization with 51-200 employees

“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

[Read full review](#) 

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

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:

“LocalStack was getting implemented before I joined the organization, and they were using it for all the development tasks they were making. If a task required actual AWS dependent services, it would increase costs, so you can estimate a 20 to 30% cost reduction, if not more, and testing locally is far much easier, saving at least 50% time..”

Ruturaj Kadam

Software Engineer at a tech vendor with 1,001-5,000 employees

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“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[Read full review](#) 

Software Engineer at a tech services company with 501-1,000 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[Read full review](#) 

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

“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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“In our organization, we heavily rely on AWS for our production environments, which is why my teams and I have been using LocalStack for about two and a half years to completely replicate our cloud environment locally.

“A great, specific example of our main use case for LocalStack is developing an API that triggers a Lambda function when an image is uploaded to an S3 bucket. Instead of deploying to AWS and waiting, we spin up LocalStack inside a Docker container. We can upload files via `awslocal`, instantly watch the Lambda trigger, verify the records update in our local DynamoDB, and step through the code with breakpoints. Our main use case is local integration testing and debugging for serverless applications.

“Our team continuously uses LocalStack, virtually every time a developer is writing code and wants to test a resource locally. Beyond day-to-day coding, it heavily optimizes our CI and CD pipeline workflows. Instead of spinning up temporary, expensive AWS environments for every pull request, we run LocalStack directly on our GitHub Actions to execute integration and tests..”

Verified user

[Read full review](#) 

Developer at a educational organization with 51-200 employees

“I have been using LocalStack since my previous company, where we used it to make local development faster and to enhance our backend application that heavily runs on AWS. I mainly worked with S3, SQS, Lambda, DynamoDB, and SNS, and we introduced LocalStack primarily to make local development easier.

“In a flow where we need to upload a file to S3, an event is generated, and reproducing that entire development flow using AWS resources was quite inefficient, which is why we use LocalStack as it helped us to verify the entire flow and how things are going while enabling us to test everything locally.

“The biggest use case for me is that I can test everything without depending on actual AWS services. Suppose I have a flow which I already mentioned that includes S3, SQS, Lambda, and DynamoDB; instead of testing everything independently, we can test the entire flow using LocalStack, which was a great benefit.

“LocalStack helped me catch bugs beforehand before actually consuming AWS dependent services, which come with a cost, allowing me to find my errors and bugs earlier on my local machine, test everything end-to-end, and ensure that when we had gone live, everything was working fine..”

Ruturaj Kadam

Software Engineer at a tech vendor with 1,001-5,000 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

[Read full review](#) 

Other Advice

“LocalStack helped us in scenarios where we needed to test complete workflows locally before deploying to production. I would 100% recommend LocalStack to everyone as it is the best tool available for local development of anything related to AWS; for that purpose, LocalStack is unmatched. It is a great tool, and if they manage to handle some edge cases, it can be a sure shot solution for everyone. I would rate this product 9 out of 10..”

Ruturaj Kadam

Software Engineer at a tech vendor with 1,001-5,000 employees

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“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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“LocalStack's governance and security is one of its biggest hidden strengths. Since everything runs entirely inside our local network or a local container, it gives our security teams massive peace of mind. When considering its AI capabilities, such as emulating [AWS SageMaker](#), developers can test model pipelines completely offline, meaning none of our internal code or company data leaks out to an external or public cloud or third-party server during the testing phase.

“When it comes to the accuracy and reliability of LocalStack's output, it is a mixed bag depending on what you are trying to test. For emulating the orchestration layer, such as ensuring your API contracts match AWS's spec or validating that your application accurately formats requests to [SageMaker](#) endpoints, it is incredibly reliable. The responses follow the exact structure you would expect from the live AWS API, which is perfect for building out application logic and checking integration flow without surprises.

“We did not purchase LocalStack through the [AWS Marketplace](#); rather, we subscribe to the commercial license directly via LocalStack's website.

“My advice to others looking into using LocalStack is to start small but fully commit to integration. Do not try to mock your entire cloud infrastructure on day one; instead, start by moving a core serverless flow, such as an S3 bucket triggering a Lambda function, into LocalStack and expand from there.

“I rate LocalStack an 8 out of 10 because it is an incredible must-have tool for any organization deeply integrated into the AWS ecosystem due to how much it saves on costs and accelerates developer velocity. The only reasons it is not a perfect 10 are the occasional parity gap with advanced AWS features and its heavy resource consumption; however, it is a game-changer..”

Verified user

Developer at a educational organization with 51-200 employees

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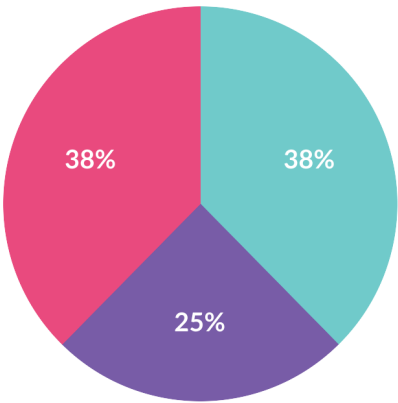
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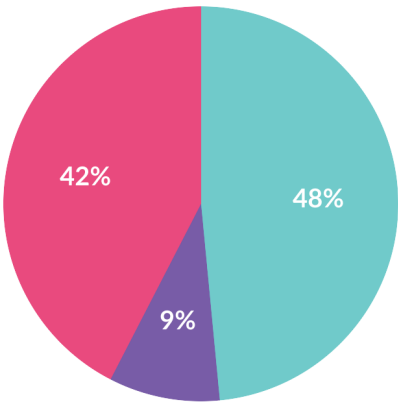


Company Size

by reviewers



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Large Enterprise Midsize Enterprise Small Business

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