
AWS
re:Invent
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BOA308-R

Build fast with preconfigured software and open-source tools

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Agenda

Identify a few challenges in navigating across **so many** tools and technologies

Help you onboard by introducing a few resources you can start with right away

Avoid the **pressure** to learn it all!

Concepts vs. tools

Demo a few services

Your time – Q&A!

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Concepts vs. tools

SDKs/IDEs

Containers

Networking

Linux OS

Container orchestration

Security

Observability

CI/CD

Monitoring

Infrastructure as code

Version control



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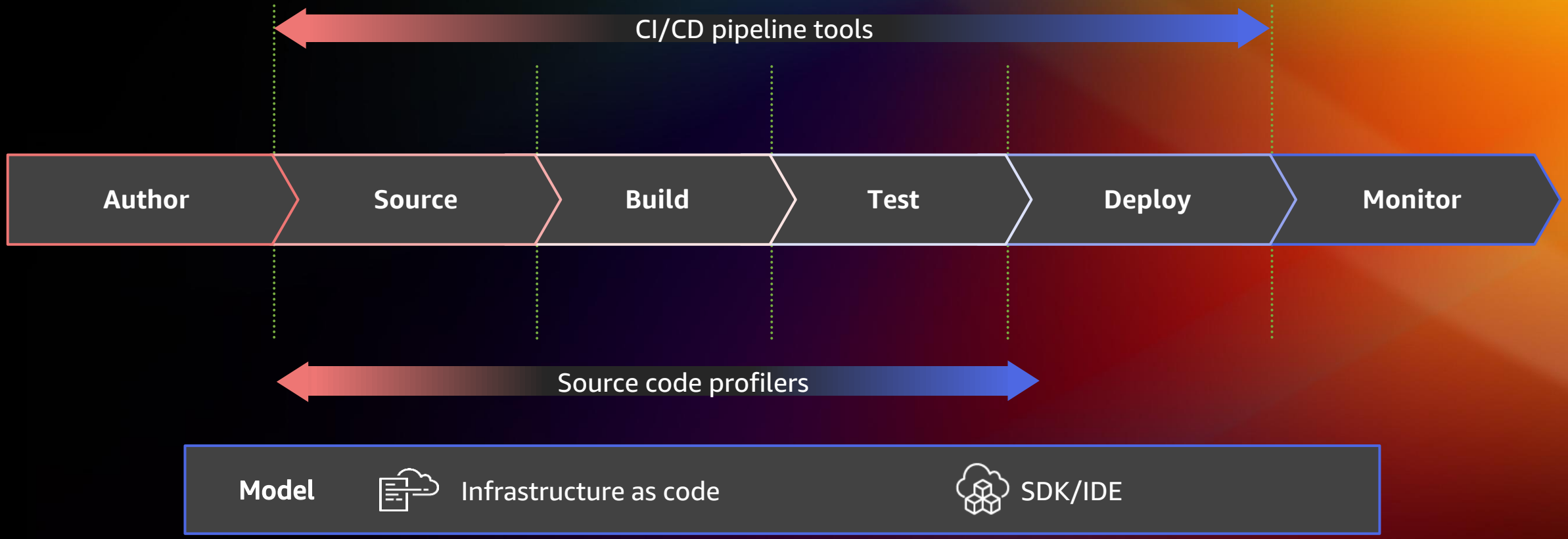
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“... if the only tool you have is a hammer, you tend to see every problem as a nail”

Abraham Maslow
American psychologist

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CI/CD concepts for modern software delivery



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Tools



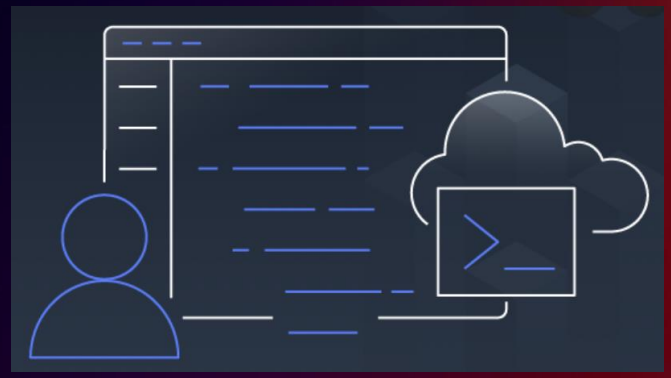
Docker



Amazon Lightsail VPS
Amazon Lightsail Containers



Grafana



AWS CloudShell



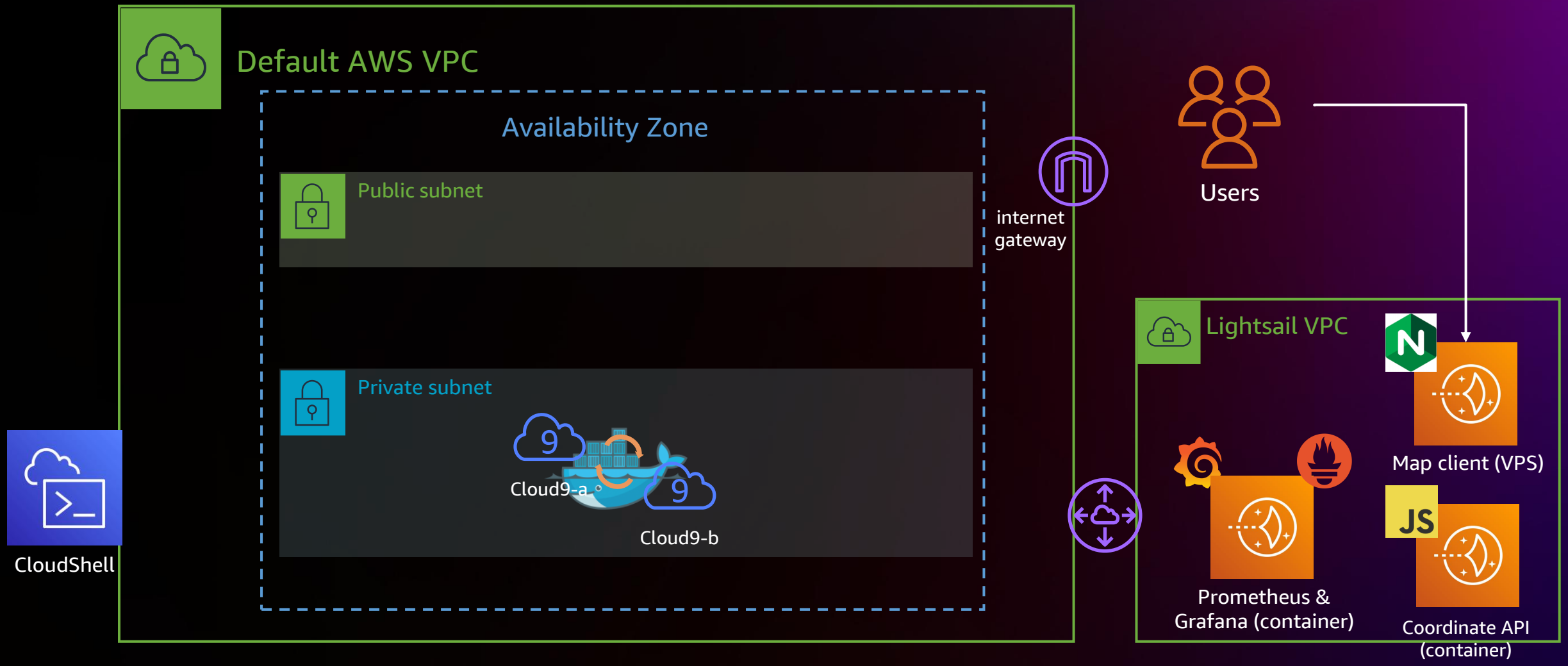
AWS Cloud9



Prometheus

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Demo architecture



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AWS CloudShell

AWS CloudShell is a browser-based shell that makes it easy to securely manage, explore, and interact with your AWS resources

CloudShell is preauthenticated with your console credentials

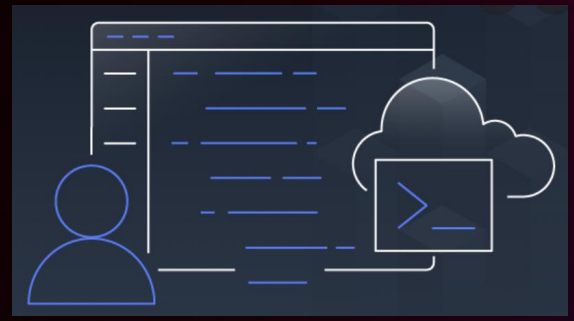
Common development and operations tools are preinstalled, so no local installation or configuration is required

With CloudShell, you can quickly run scripts with the AWS Command Line Interface (AWS CLI), experiment with AWS service APIs using the AWS SDKs, or use a range of other tools to be productive

You can use CloudShell right from your browser and at no additional cost



AWS CloudShell



https://aws.amazon.com/blogs/aws/aws-cloudshell-command-line-access-to-aws-resources/

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AWS Cloud9

AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser; it includes a code editor, debugger, and terminal

Cloud9 comes prepackaged with essential tools for popular programming languages, including JavaScript, Python, PHP, and more, so you don’t need to install files or configure your development machine to start new projects

Since your Cloud9 IDE is cloud based, you can work on your projects from your office, home, or anywhere using an internet-connected machine

Cloud9 also provides a seamless experience for developing serverless applications enabling you to easily define resources, debug, and switch between local and remote execution of serverless applications

With Cloud9, you can quickly share your development environment with your team, enabling you to pair program and track each other's inputs in real time



AWS Cloud9



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Amazon Lightsail & Lightsail Containers

Amazon Lightsail provides easy-to-use cloud resources to get your applications up and running in just a few clicks

Lightsail offers simplified services such as instances, containers, databases, storage, and more

With Lightsail, you can easily spin up websites or applications using preconfigured blueprints like WordPress, Prestashop, or LAMP

You can use Lightsail features to simply host static content, connect your content to an audience around the globe, or get your Windows Business Server up and running

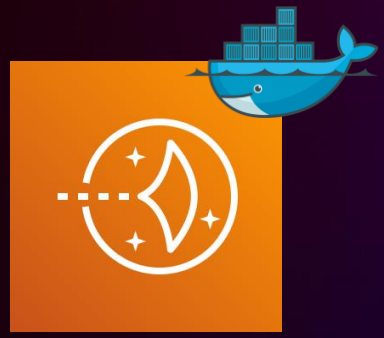
The Lightsail console guides you through the configuration process and, in many cases, has components already configured



Amazon Lightsail VPS



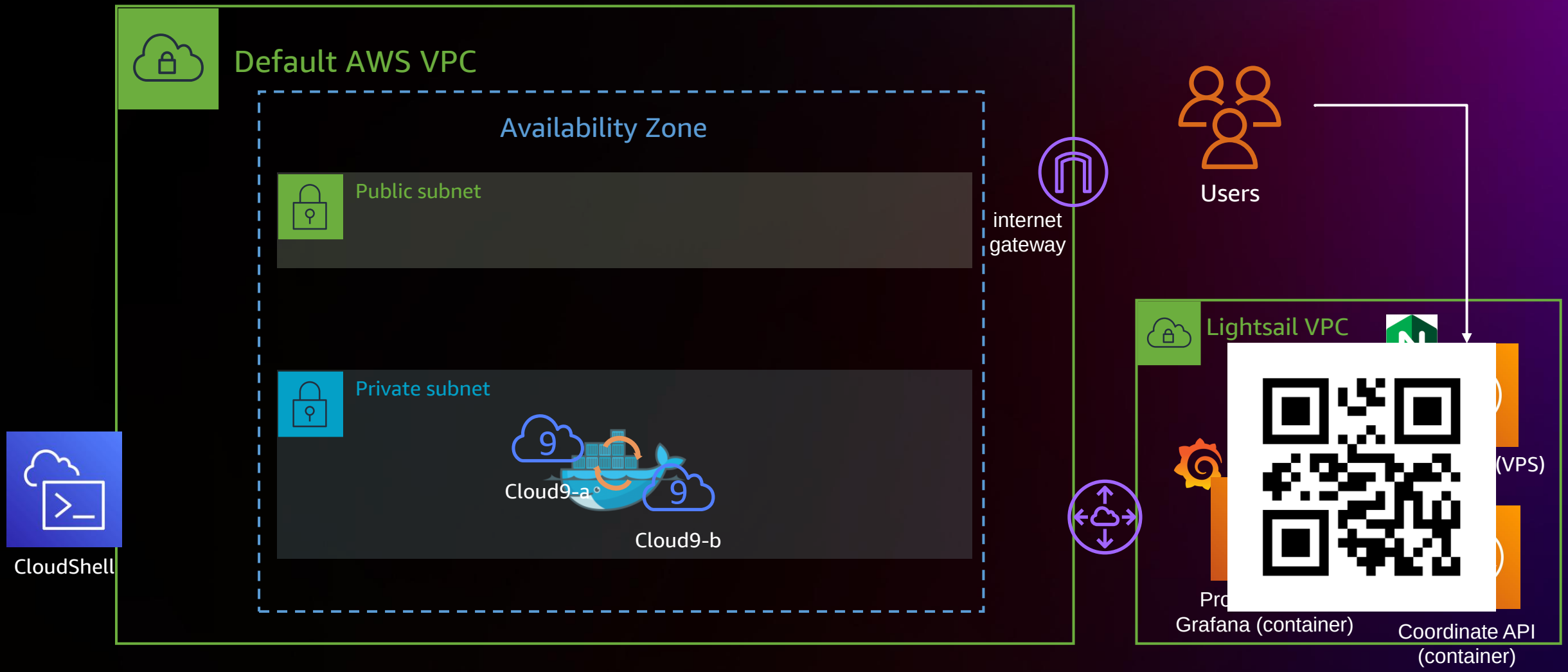
Amazon Lightsail Containers



Amazon Lightsail Containers

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Demo architecture



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Summary

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Additional open-source tools

Infracost
Cloud cost estimator

s3fs-fuse
File mount Amazon S3 buckets to Linux, MacOS, and FreeBSD systems

LocalStack
Fully functional local stack deployment environment
Build and test before you deploy

Litmus
Cloud-native chaos engineering utility

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Thank you!

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