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Learn About the OpenEdge on AWS Quick Start

OpenEdge®

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OpenEdge on AWS Quick Start overview

Developed by Progress in partnership with Amazon Web Services, OpenEdge on AWS Quick Start is an automated reference deployment that uses AWS CloudFormation templates to deploy a highly available, three-tier Progress OpenEdge stack on AWS. A key feature of the Quick Start is in the way that it reduces hundreds of manual procedures to just a few steps, which allows you to build a production environment quickly and to start using it immediately. The AWS Quick Start is a recommended framework for rapidly and repeatedly deploying applications to the AWS Cloud in a safe and resilient architecture. Using GitHub, OpenEdge on AWS Quick Start stores the scripts that run the AWS CloudFormation product to launch all the sources needed to deploy OpenEdge applications.

With OpenEdge on AWS Quick Start, you have a convenient way to create the infrastructure required to run an Advanced Business Language (ABL) application with a web user interface (UI), representational state transfer (REST) data services, and the OpenEdge Database. OpenEdge on AWS Quick Start combines AWS services and OpenEdge application development platform functionality to achieve high availability, redundancy, and scalability.

For details, see the following topics:

- Who the Quick Start is for
- How the Quick Start simplifies deployment into the cloud
- How to start using the OpenEdge on AWS Quick Start
- Costs and licensing requirements
- Where to get more information

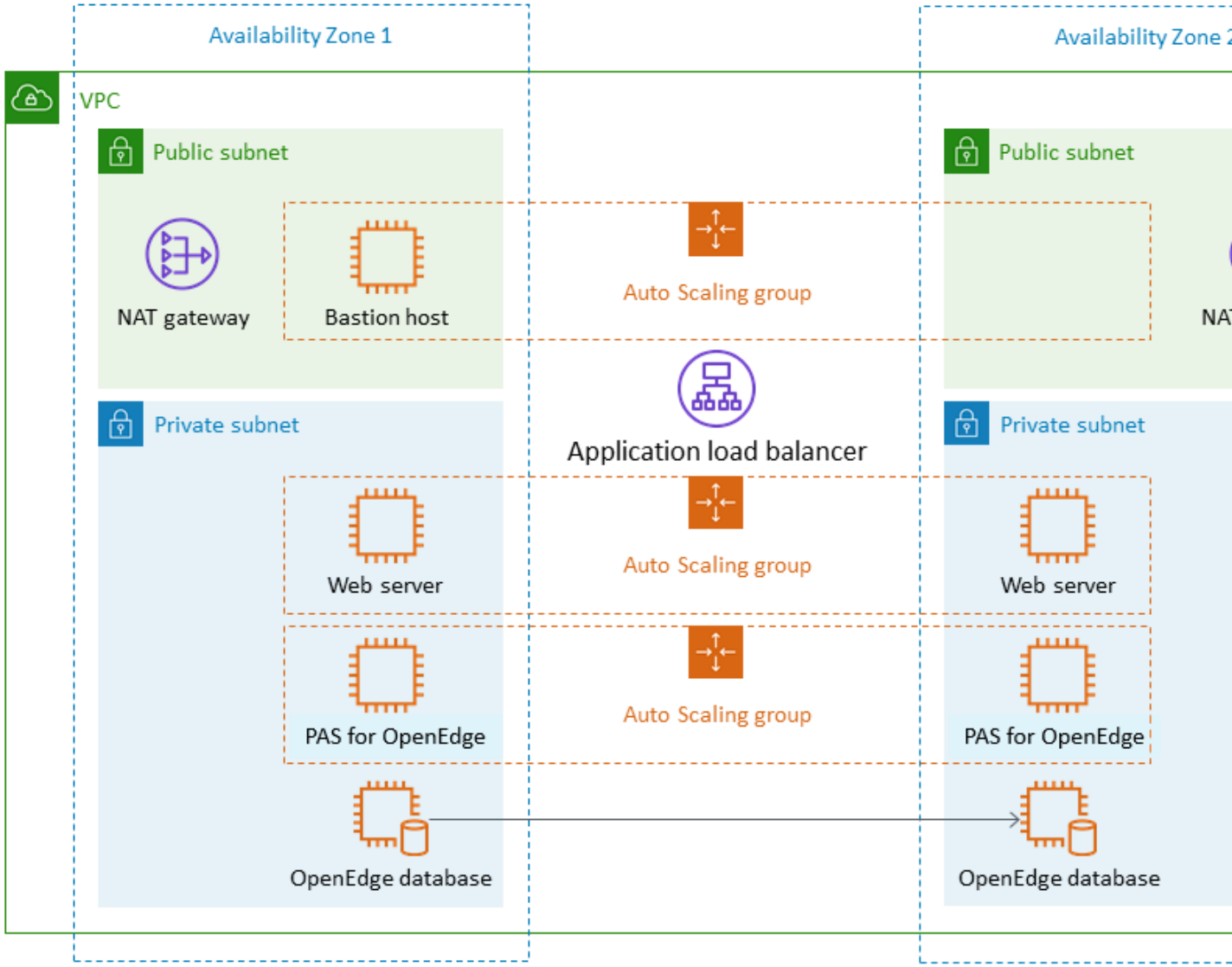
Who the Quick Start is for

The OpenEdge on AWS Quick Start is targeted for users who have little knowledge of the cloud but who need to move to it quickly. The Quick Start assumes that you have familiarity with OpenEdge technologies, such as PAS for OpenEdge and OpenEdge RDBMS, and also a familiarity with AWS services.

How the Quick Start simplifies deployment into the cloud

OpenEdge on AWS Quick Start is designed for simplicity. It is a template to get you started quickly and easily in your move to the cloud, making sure that your application is fault tolerant, dynamically scalable, and secure.

When you launch OpenEdge on AWS Quick Start, you automatically build an Amazon Virtual Private Cloud (VPC), which is essential for ensuring the security of your application in the cloud, shown in the following figure.



Everything that you build with OpenEdge on AWS Quick Start is in a VPC and in a virtual private network, which together provide robust security for your application. Using the Quick Start, your application gets:

- Two availability zones—To provide redundancy in the event that one zone becomes unavailable.
- A public subnet—To provide a means for you, for administrative purposes, to gain secure access to the EC2 instances that are running the application.
- A private subnet—To host the EC2 instances to run your application.
- A load balancer to access the web server for the web user interface with high availability.
- A load balancer to access the REST data services with high availability.
- At least one web server in each availability zone. The web servers are incorporated into an autoscaling group, which scales the web server instances up or down as needed.
- At least one PAS for OpenEdge server instance in each availability zone, also in an autoscaling group.
- OpenEdge database, with replicated databases across availability zones.

In summary, the OpenEdge on AWS deployment is easy to build, secure, scalable, redundant, highly available, and requires minimal setup steps.

How to start using the OpenEdge on AWS Quick Start

To begin using the OpenEdge on AW Quick Start:

1. **Sign up and subscribe.**

   If you do not already have an AWS account, sign up at https://aws.amazon.com, and sign in to your account. Then subscribe to the Amazon Machine Image (AMI) for OpenEdge Database and the AMI for PAS for OpenEdge.

2. **Launch the Quick Start.**

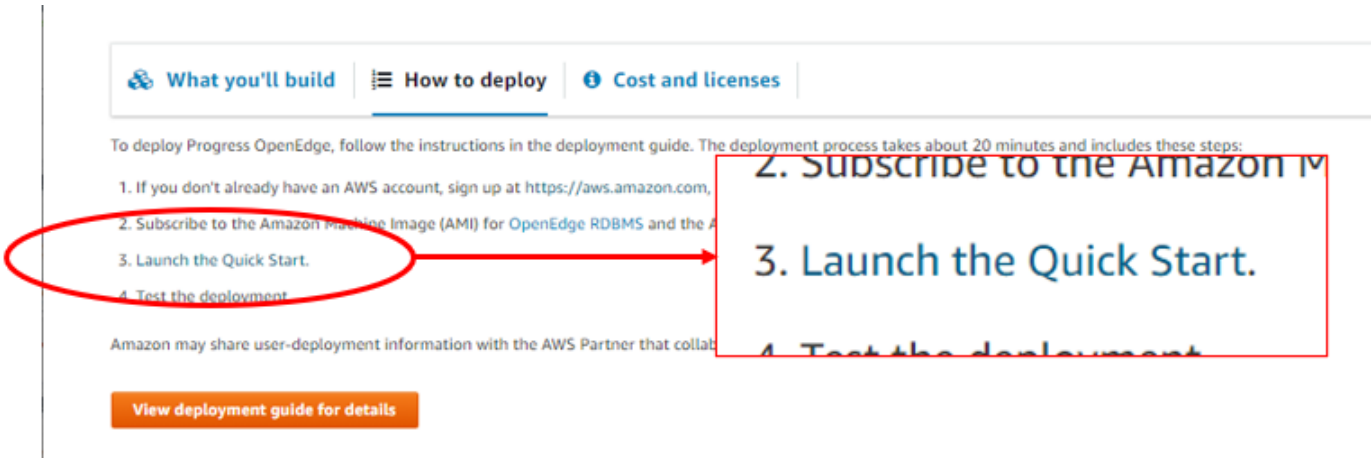
   Using a browser, go to the following page:

   `aws.amazon.com/quickstart/architecture/progress-openedge`

   When you reach the preceding page, you will notice three tabs:

   - **What you'll build**
   - **How to deploy**
   - **Cost and licenses**

   Select the **How to deploy** tab, then click the link in the third step, **Launch the Quick Start**.



3. **Build your AWS CloudFormation.**

   After you launch the Quick Start, you configure your AWS CloudFormation by specifying details for the following:

   - Creating the application stack, which comes autopopulated with most of the settings you need. The S3 URL for the AWS CloudFormation template for the OpenEdge on AWS Quick Start is shown.

     You can click **View in Designer** to view the stack in design mode.

   - Stack name, which you can customize from the default as required.
   - Location of the two availability zones.
   - Address block for remote access to the EC2 instances.
   - An email address to which Amazon can send notification messages.
   - Deployment packages for the OpenEdge database, PAS for OpenEdge, and your web application.

     A sample deployment package is available at `https://knowledgebase.progress.com/articles/Knowledge/OpenEdge-AWS-Quick-Start-Example`.

   - Your Amazon Elastic Compute Cloud (EC2) configuration, such as keys, and type and number of EC2 instances.
   - Stack creation options.

   The Quick Start preconfigures the parameters and network connection settings for your database, PAS for OpenEdge instances, VPC, security, and so on, which greatly simplifies your initial testing setup. You can later customize these settings as appropriate.

4. **Create and run your stack.**

   After you complete the configuration of your CloudFormation, click **Create your stack** to run your application in the cloud. After your application is running, you can view status details of all the stacks associated with your OpenEdge application, database, and so on. You can use the **Outputs** tab to view the URL to access the web user interface.

Costs and licensing requirements

If you have standard OpenEdge licenses for PAS for OpenEdge and the OpenEdge database, moving your OpenEdge application stack into the cloud is low cost:

- The AWS Quick Start is free.
- The AWS CloudFormation is free.
- Access to the OpenEdge on AWS Quick Start GitHub repository is freely available for you to clone and use.
- The Marketplace Amazon Machine Images (AMIs) do not incur a cost until you run them, and you pay standard AWS costs when you do, but OpenEdge does not charge you anything beyond your existing Progress licenses.

Where to get more information

See the following for more information and additional resources:

- OpenEdge on AWS Quick Start home page:

  `https://aws.amazon.com/quickstart/architecture/progress-openedge/`

- Knowledge Base article about the OpenEdge on AWS Quick Start:

  `https://knowledgebase.progress.com/articles/Article/OpenEdge-AWS-Quick-Start-Example`

- AWS Quick Start site on Amazon:

  `https://aws.amazon.com/quickstart/`

- OpenEdge on AWS Quick Start GitHub repository:

  `https://github.com/aws-quickstart/quickstart-progress-openedge`

- Deployment guide:

  `https://aws-quickstart.github.io/quickstart-progress-openedge/`