



digiRunner

AWS Marketplace Buyer Guide

v1.4

Revision History

Version	Date	Description	Author
1.0	2024.03.05	System version number: v4.0.49.1 Initial release	Mark Zhan, Fran Chen
1.1	2024.03.06	[Added] 1.2. Domain Settings - with AWS Route 53 7. Troubleshooting [Updated] 1.1. Preparing a Dedicated URL 1.1.2 -> 1.3. Domain Settings - with Third-Party Domain Providers 2.2. Search Results for digiRunner [Deleted] 1.1.1 Scenarios for Purchasing Domains	Mark Zhan, Fran Chen
1.2	2024.03.18	[Added] 5.1.1. Basic Reports 5.1.2. Detailed Reports 5.2.1. Architecture - digiRunner Lite 5.2.2. Architecture - digiRunner Lite (High Availability) 5.2.3. Architecture - digiRunner Enterprise 5.2.4. Architecture - digiRunner Enterprise (High Availability) [Updated] Renamed HA to High Availability 1.2. Domain Settings - with AWS Route 53 2.2. Search Results for digiRunner 2.3. digiRunner Products: Four Solutions Available 3.1. Region Setup 3.2. Installation Parameters: Revised wording 3.5. Completing Installation 4. digiRunner Login 5.1. digiRunner Detailed Reports 5.2. digiRunner Architecture 5.2.1. AWS Infrastructure -> merged and revised 6. Uninstallation	Mark Zhan, Fran Chen
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1. Prerequisites

1.1. Preparing a Dedicated URL

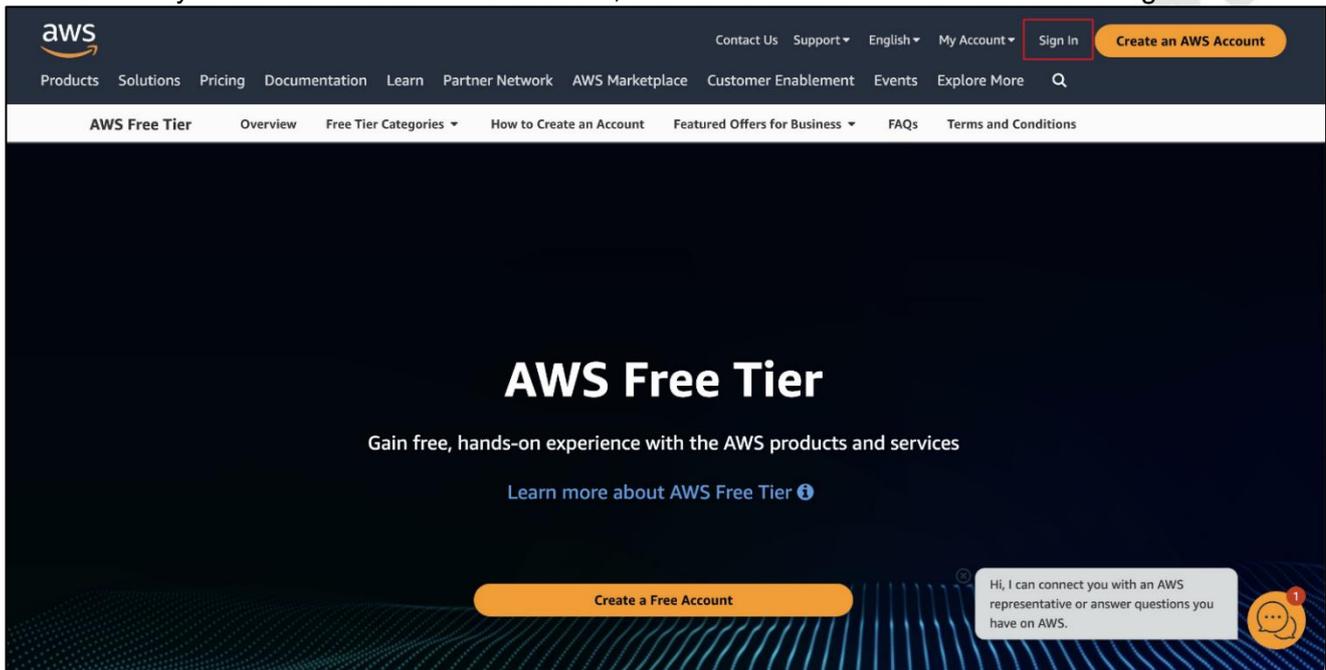
You may prepare the dedicated URL with either AWS Route 53 or other domain providers, e.g., GoDaddy, etc.

NOTE: If you already have a domain registered or hosted on Route 53, you can use the existing domain and skip the **Domain Settings** steps and proceed directly to [Purchase Procedure](#).

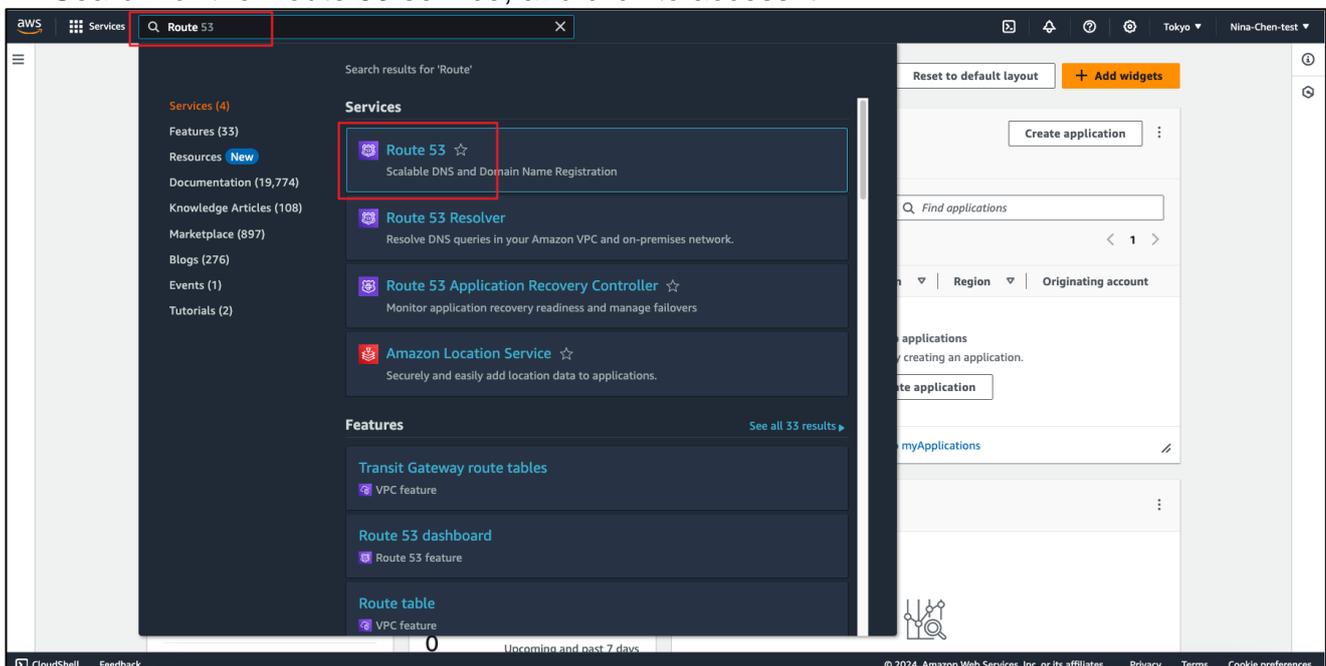
1.2. Domain Settings - with AWS Route 53

1. Go to the AWS website, and click on **Sign in** to access the AWS Management Console.

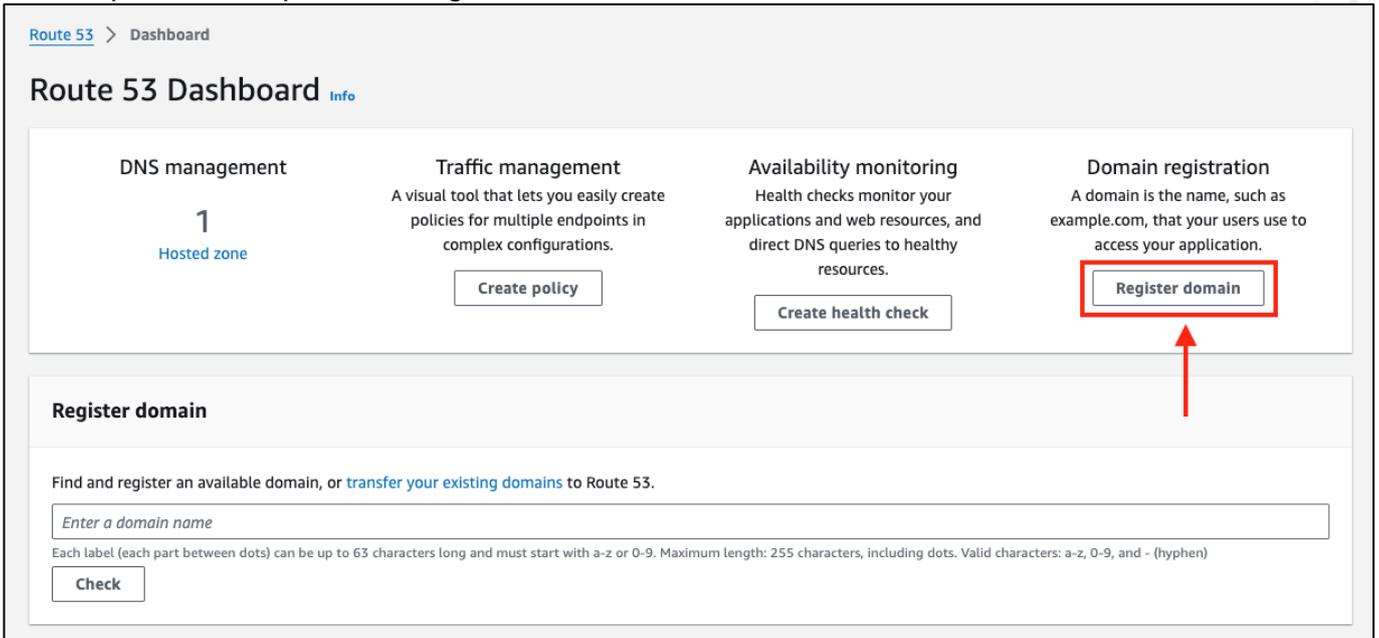
NOTE: If you do not have an AWS account, click on **Create an AWS Account** to register first.



2. Search for the Route 53 service, and click to access it.



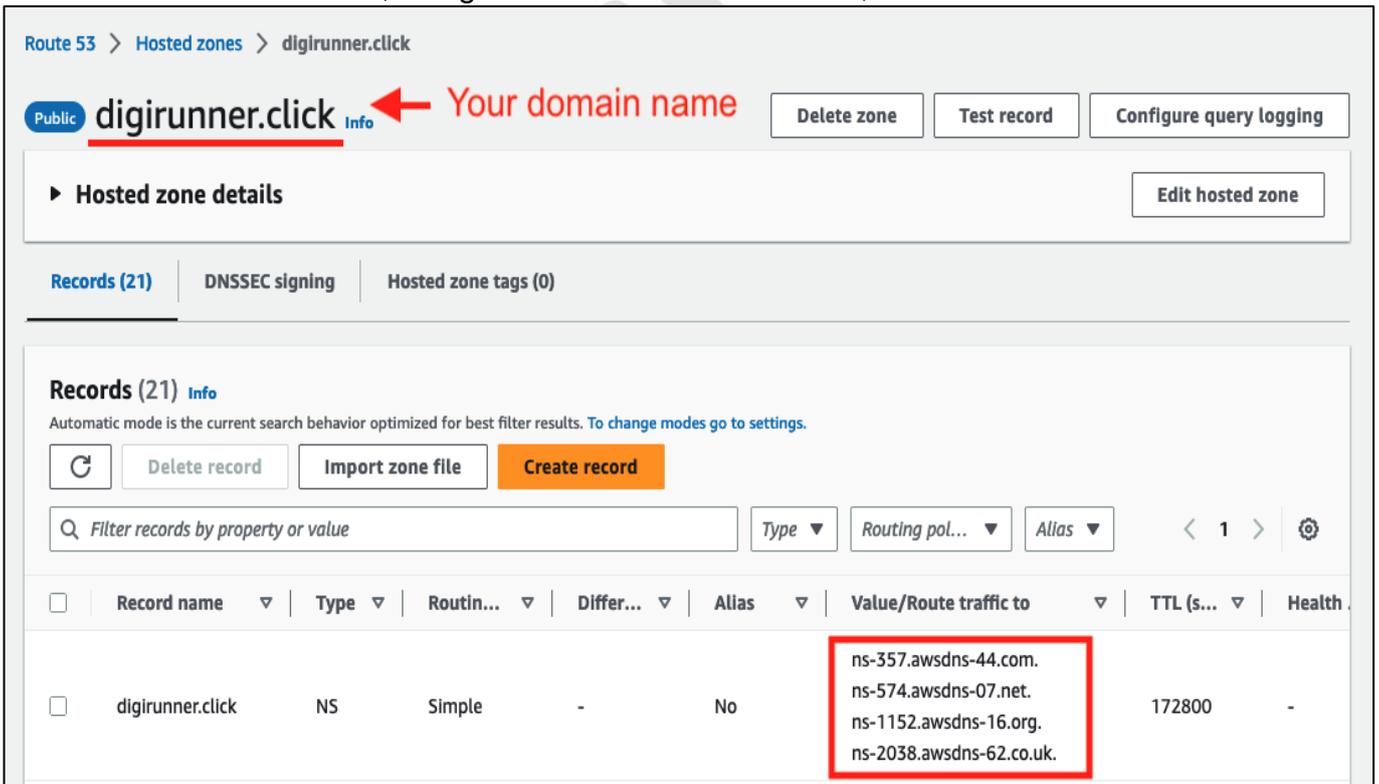
3. Click on **Register domain** to purchase and register the domain, and AWS will automatically complete the required settings.



1.3. Domain Settings - with Third-Party Domain Providers

Purchase the domain from other domain providers, e.g., GoDaddy, etc., and follow the instructions below to complete the domain settings.

1. Go to the AWS website, navigate to the Route 53 service, and create a hosted zone.



2. Access your domain provider's platform (e.g., GoDaddy), set the URL to self-managed, and point it to AWS: ensure it corresponds to the four sets of Values in the Record Type="NS" in the Hosted Zone of Route 53.
3. To query the corresponding IP address, please follow the instructions below:
 - a. Open the Terminal or Command Prompt, type in 'nslookup', and press **Enter**.
 - b. Copy and paste the four groups of NS values and press **Enter** to view the corresponding IP address.

```
~
nslookup ← Type in the command in the Terminal.
> ns-357.awsdns-44.com.
Server:      8.8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:   ns-357.awsdns-44.com
Address: 205.251.193.101
> ns-574.awsdns-07.net.
Server:      8.8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:   ns-574.awsdns-07.net
Address: 205.251.194.62
> ns-1152.awsdns-16.org.
Server:      8.8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:   ns-1152.awsdns-16.org
Address: 205.251.196.128
> ns-2038.awsdns-62.co.uk.
Server:      8.8.8.8
Address:     8.8.8.8#53

Non-authoritative answer:
Name:   ns-2038.awsdns-62.co.uk
Address: 205.251.199.246
>
```

2. Purchase Procedure

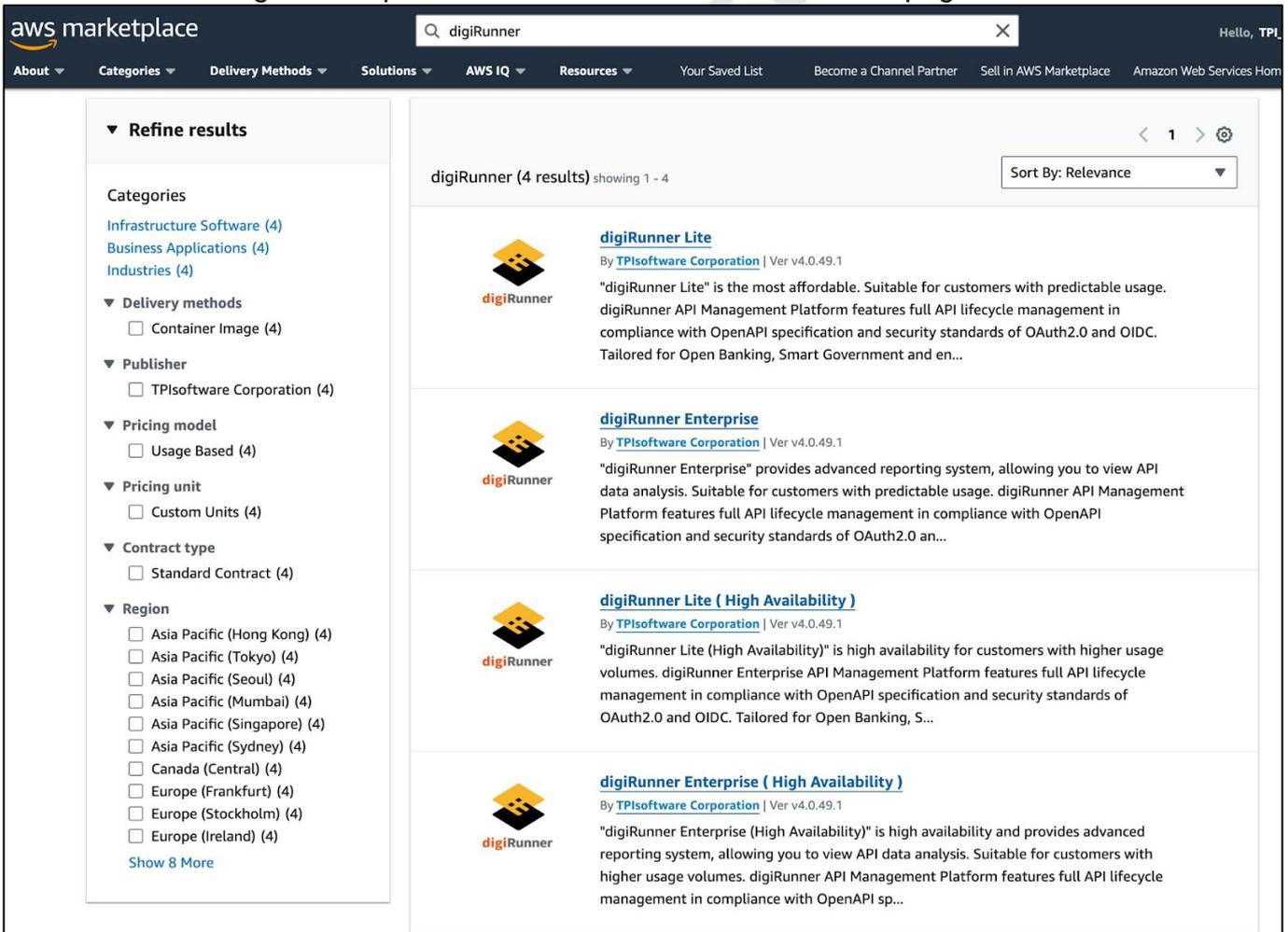
2.1. Searching for digirunner

1. Access the AWS Marketplace at: <https://aws.amazon.com/marketplace>
2. Enter **digirunner** in the keyword search field to search for it.



2.2. Search Results for digirunner

You will find four digirunner product solutions on the search results page.



2.3. digiRunner Products: Four Solutions Available

Comparison of Solutions:

Solutions	Container Auto Scaling & High Availability	OpenSearch Detailed Reporting	Buyer Guide
digiRunner Lite	X	X	Affordable
digiRunner Lite (High Availability)	O	X	Moderate cost, high availability
digiRunner Enterprise	X	O	Moderate cost, detailed reporting
digiRunner Enterprise (High Availability)	O	O	High cost, high availability and detailed reporting

				
Resource	Lite	Lite (High Availability)	Enterprise	Enterprise (High Availability)
CloudWatch	●	●	●	●
ALB	●	●	●	●
VPC (NAT Gateway)	●	●	●	●
Router 53	●	●	●	●
CloudMap	●	●	●	●
EventBridge	●	●	●	●
System Manager	●	●	●	●
ECS Fargate	●	●	●	●
ECS Fargate (Master)		●		●
OpenSearch			●	●

2.4. Subscribing to Products

Select one of the digiRunner product solutions and click on **Continue to Subscribe** to complete your subscription.

The screenshot shows the AWS Marketplace product page for digiRunner Lite. At the top, there is a search bar and navigation links. The product name 'digiRunner Lite' is prominently displayed, along with the provider 'TPIsoftware Corporation' and the latest version 'v4.0.49.1'. A red arrow points to a yellow button labeled 'Continue to Subscribe', which is also enclosed in a red rectangular box. Below the product name, there is a brief description and a 'Show more' link. The page includes tabs for Overview, Pricing, Usage, Support, and Reviews. The main content area features a 'Product Overview' section with descriptive text and a 'Highlights' section with bullet points.

2.5. Configuring Products

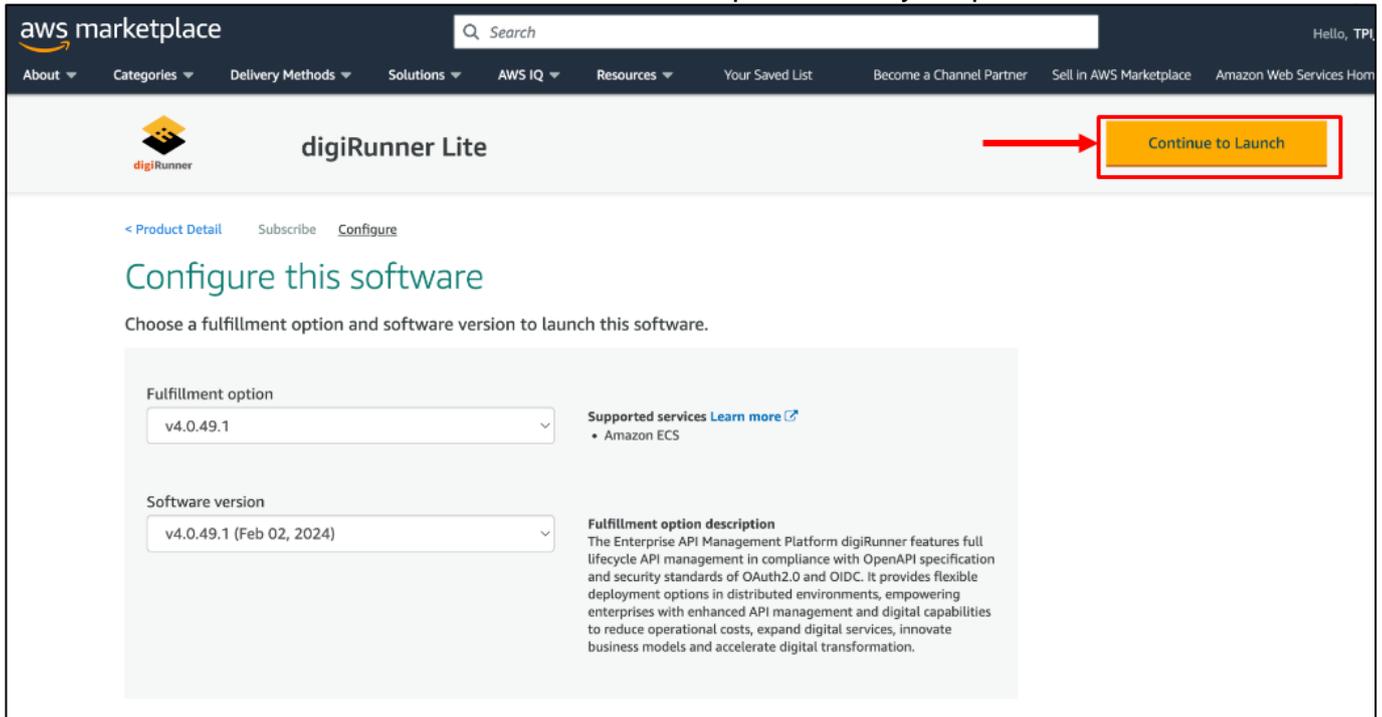
Click on **Continue to Configuration** to start configuring your product.

The screenshot shows the 'Subscribe to this software' page for digiRunner Lite. A red arrow points to a yellow button labeled 'Continue to Configuration', which is enclosed in a red rectangular box. The page includes a breadcrumb trail with '< Product Detail' and 'Subscribe'. Below the heading, there is a confirmation message: 'You're subscribed to this software. Please see the terms and pricing details below or click the button above to configure your software.' The 'Terms and Conditions' section is titled 'TPIsoftware Corporation Offer 2024-02-01' and contains a paragraph of legal text. At the bottom, there is a table with subscription details.

Product	Effective date	Expiration date	Action
digiRunner Lite	2/2/2024	N/A	Show Details

2.6. Launching Products

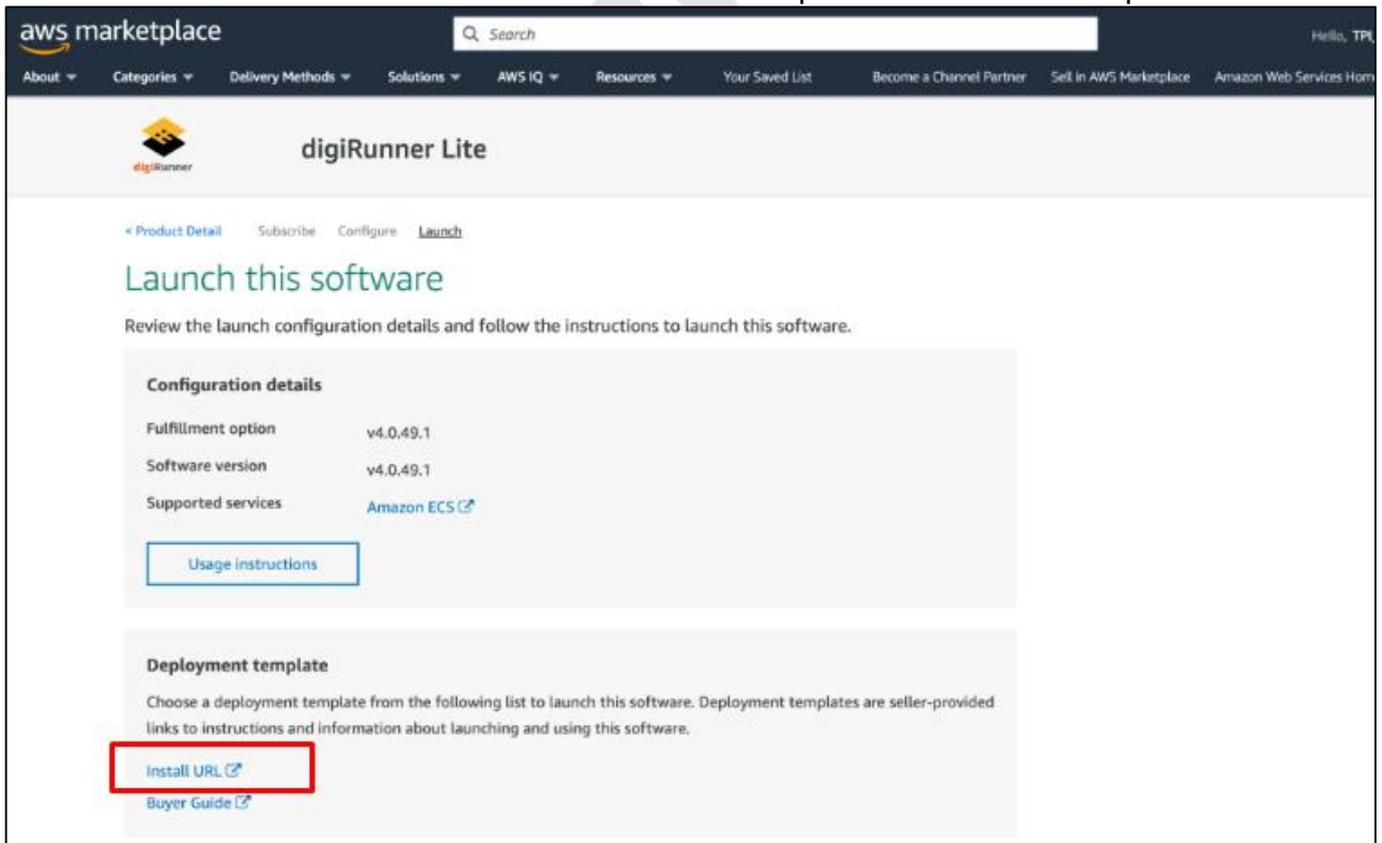
Click on **Continue to Launch** to initiate the launch process for your product.



The screenshot shows the AWS Marketplace interface for 'digiRunner Lite'. The page is in the 'Configure' step, titled 'Configure this software'. It prompts the user to 'Choose a fulfillment option and software version to launch this software.' Two dropdown menus are visible: 'Fulfillment option' set to 'v4.0.49.1' and 'Software version' set to 'v4.0.49.1 (Feb 02, 2024)'. To the right, there is a 'Supported services' section listing 'Amazon ECS' and a 'Fulfillment option description' section. A red box highlights the 'Continue to Launch' button in the top right corner, with a red arrow pointing to it from the left.

2.7. Accessing Installation

Click on **Install URL** to access the installation URL and proceed to the next step for installation.



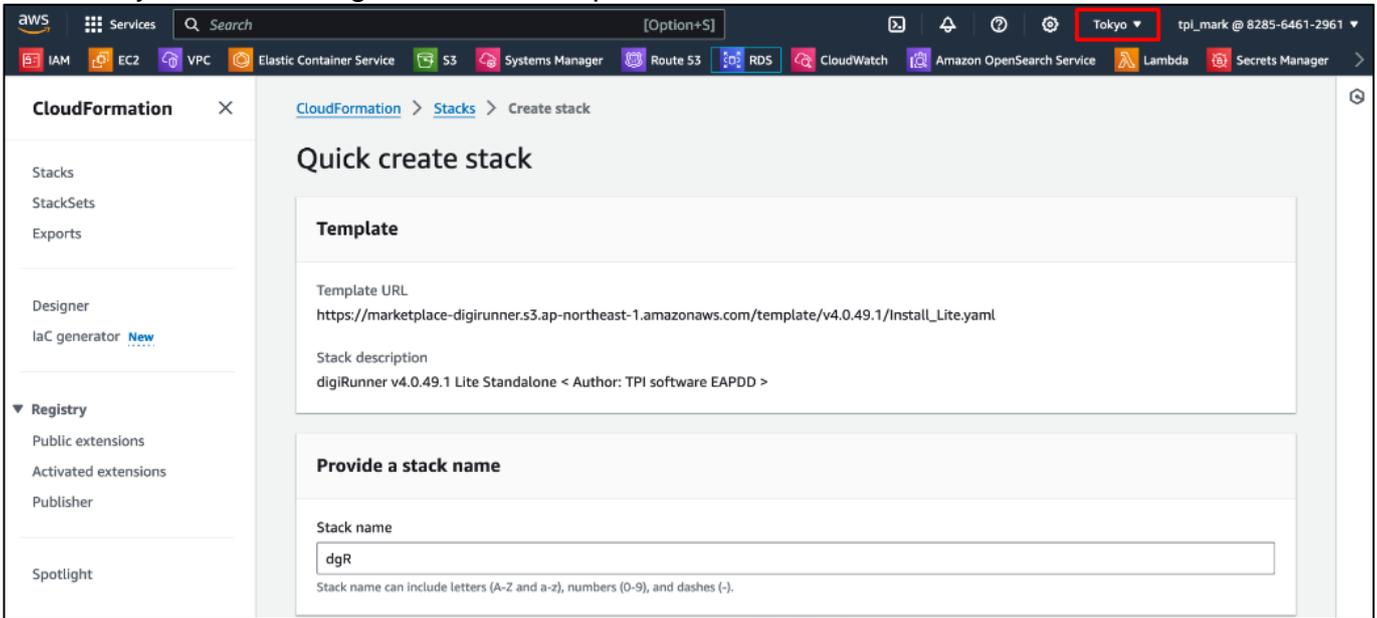
The screenshot shows the AWS Marketplace interface for 'digiRunner Lite' in the 'Launch' step, titled 'Launch this software'. It prompts the user to 'Review the launch configuration details and follow the instructions to launch this software.' A 'Configuration details' section lists: 'Fulfillment option: v4.0.49.1', 'Software version: v4.0.49.1', and 'Supported services: Amazon ECS'. Below this is a 'Usage instructions' button. A 'Deployment template' section explains that users should choose a deployment template from a list. A red box highlights the 'Install URL' link in this section.

3. digiRunner Installation and Setup

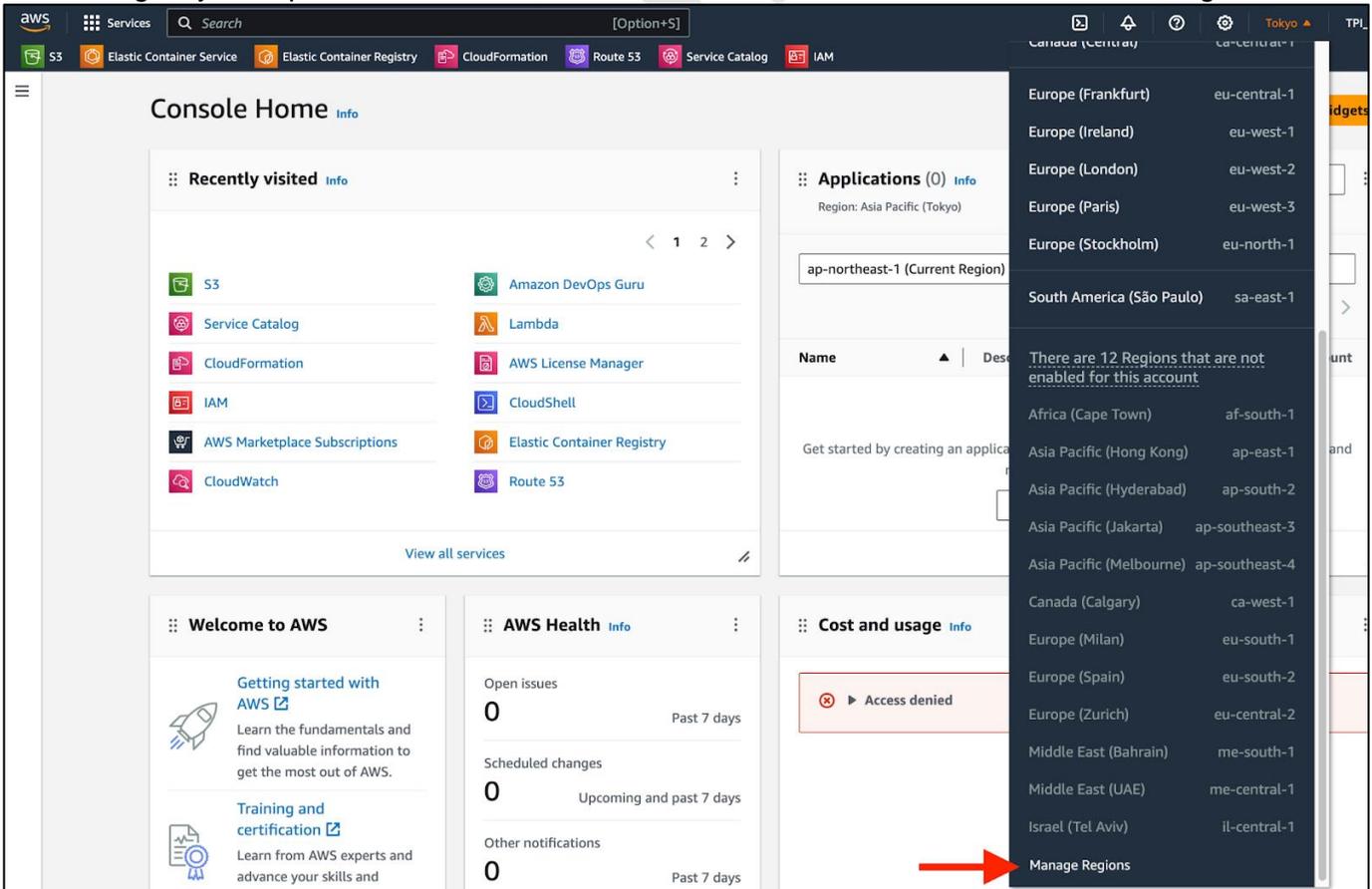
3.1. Region Setup

The default region is **Tokyo** (ap-northeast-1).

1. Select your desired region from the drop-down menu to customize it.



2. If the region you require is not enabled, follow instructions below to enable the desired region.



AWS Regions Info Disable Enable ↻

Region	Status
<input type="checkbox"/> Africa (Cape Town)	⊗ Disabled
<input checked="" type="checkbox"/> Asia Pacific (Hong Kong)	⊗ Disabled
<input type="checkbox"/> Asia Pacific (Hyderabad)	⊗ Disabled
<input checked="" type="checkbox"/> Asia Pacific (Jakarta)	⊗ Disabled
<input checked="" type="checkbox"/> Asia Pacific (Melbourne)	⊗ Disabled
<input type="checkbox"/> Canada (Calgary)	⊗ Disabled
<input type="checkbox"/> Europe (Zurich)	⊗ Disabled
<input type="checkbox"/> Europe (Milan)	⊗ Disabled
<input type="checkbox"/> Europe (Spain)	⊗ Disabled
<input type="checkbox"/> Israel (Tel Aviv)	⊗ Disabled
<input type="checkbox"/> Middle East (UAE)	⊗ Disabled
<input type="checkbox"/> Middle East (Bahrain)	⊗ Disabled
<input checked="" type="checkbox"/> Asia Pacific (Tokyo)	✔ Enabled by default
<input checked="" type="checkbox"/> Asia Pacific (Seoul)	✔ Enabled by default
<input checked="" type="checkbox"/> Asia Pacific (Osaka)	✔ Enabled by default
<input checked="" type="checkbox"/> Asia Pacific (Mumbai)	✔ Enabled by default



3.2. Installation Parameters

You may use the default installation parameters provided to configure the product.

NOTE: Conflicts may arise if your AWS network environment conflicts with the defaults, and the possible causes of conflict are as below.

- VPC quota limit:** Ensure that your resource usage remains within the VPC quota limit. Refer to the [AWS documentation](#) for further details.
- Network segment conflict:** Please verify that the designated network segment is not already in use.

Parameters
Parameters are defined in your template and allow you to input custom values when you create or update a stack.

::::: Your digiRunner Domain Name :::::

Domain
The ID of the Route53 Hosted Zone for the domain name used in the ACM Certificate.
Select AWS::Route53::HostedZone::id

SubDomain
Input your subdomain name for digiRunner, e.g. (subdomain).yourdomain.com
api

::::: Password for digiRunner login :::::

Password
Must be 8 to 12 characters and include upper and lower case letters, numbers, and special characters(@#\$!%*?&).

::::: Create VPC & Subnet :::::

new VPC CIDR
CIDR Block for the new VPC (e.g., 10.184.0.0/16)
10.184.0.0/16

Public_Subnet_1 CIDR
CIDR Block for the first public subnet (e.g., 10.184.1.0/16)
10.184.0.0/20

Public_Subnet_2 CIDR
CIDR Block for the second public subnet (e.g., 10.184.2.0/16)
10.184.16.0/20

Private_Subnet_1 CIDR
CIDR Block for the first private subnet (e.g., 10.184.3.0/16)
10.184.32.0/20

Private_Subnet_2 CIDR
CIDR Block for the second private subnet (e.g., 10.184.4.0/16)
10.184.48.0/20

::::: Test / Production :::::

Install for [Test / Production] Environment
The Test Environment will use cheaper machine instance type.
Select String

Select your domain

If there is no domain to select from, please refer to the "Prerequisite" section

Fill in your subdomain

If the subdomain is *api*, the digiRunner URL is *api.yourdomain*

Fill in your digiRunner login password

Must be 8~12 characters including uppercase and lowercase letters, numbers, and special characters (@#\$!%*?&)

Fill in the network segment of the new VPC

Fill in "Public subnet 1" in the new VPC

Fill in "Public subnet 2" in the new VPC

Fill in "Private subnet 1" in the new VPC

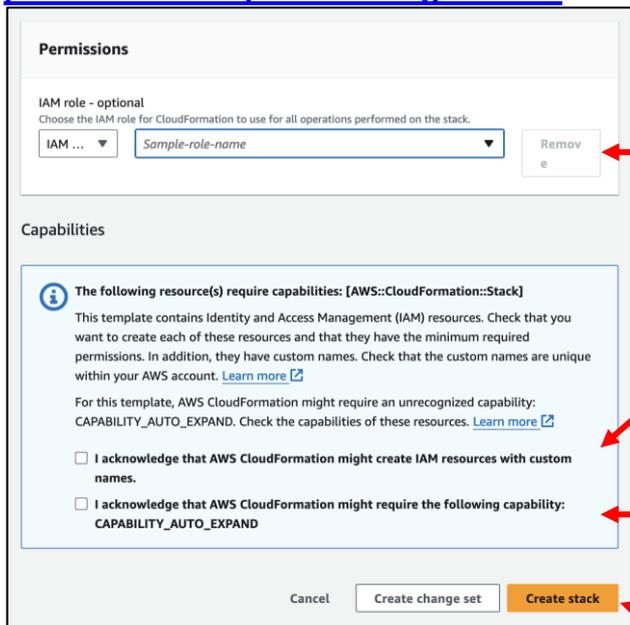
Fill in "Private subnet 2" in the new VPC

Select mode from **Test / Production**

Test mode will be installed with minimal resources and is not intended for official use.

3.3. Installation Permissions

The AWS account or IAM role performing the installation **must be granted [the least-privilege permissions required for digRunner](#)**.



Select an IAM role with installation permissions

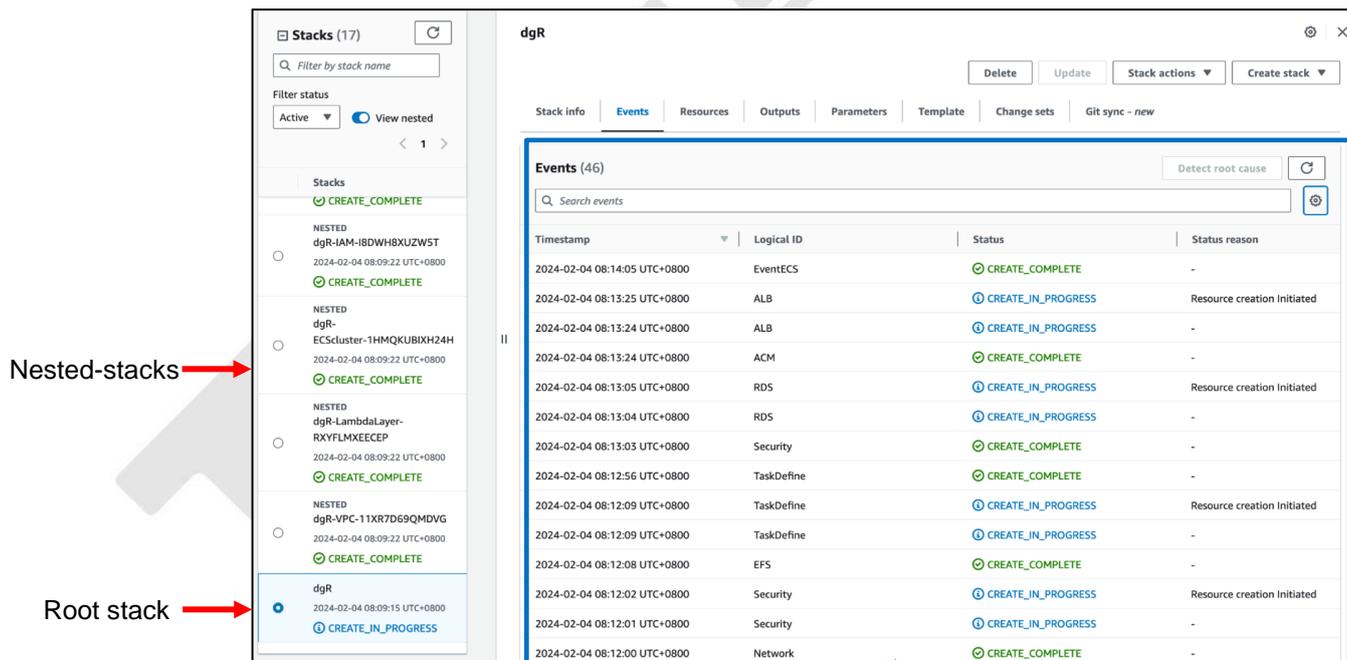
If your AWS account has administrator rights, you can skip this step.

Check to confirm that you acknowledge: The CloudFormation stack will autonomously establish the required IAM permissions.

Check to confirm that you acknowledge: The CloudFormation stacks are organized in a nested structure, with the root/parent stack creating nested stacks.

Click to initiate the installation

3.4. Installation Process



Nested-stacks

Root stack

Installation details, such as progress updates and the installation status, will be displayed in this section.

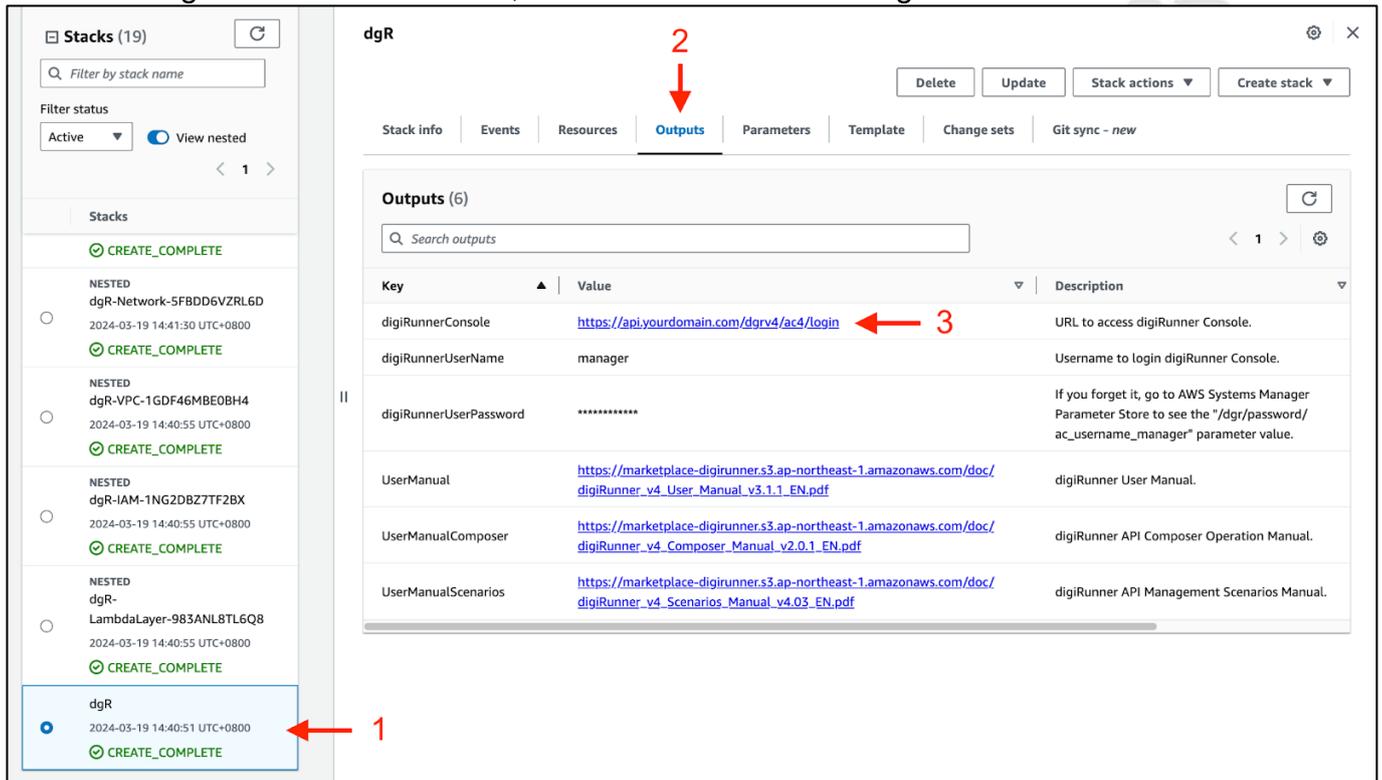
3.5. Completing Installation

The estimated installation times are as follows:

- **digirunner Lite:** about 25 minutes
- **digirunner Lite (High Availability):** about 35 minutes
- **digirunner Enterprise:** about 35 minutes
- **digirunner Enterprise (High Availability):** about 45 minutes

NOTE: Actual installation time may vary depending on the AWS cloud infrastructure environment. Installation time could be longer than estimated if the AWS environment is unstable.

1. When the root stack shows 'CREATE_COMPLETE', indicating the installation is complete.
2. Click on **Outputs**.
3. Locate digirunner Console URL, and click on the URL to log in.

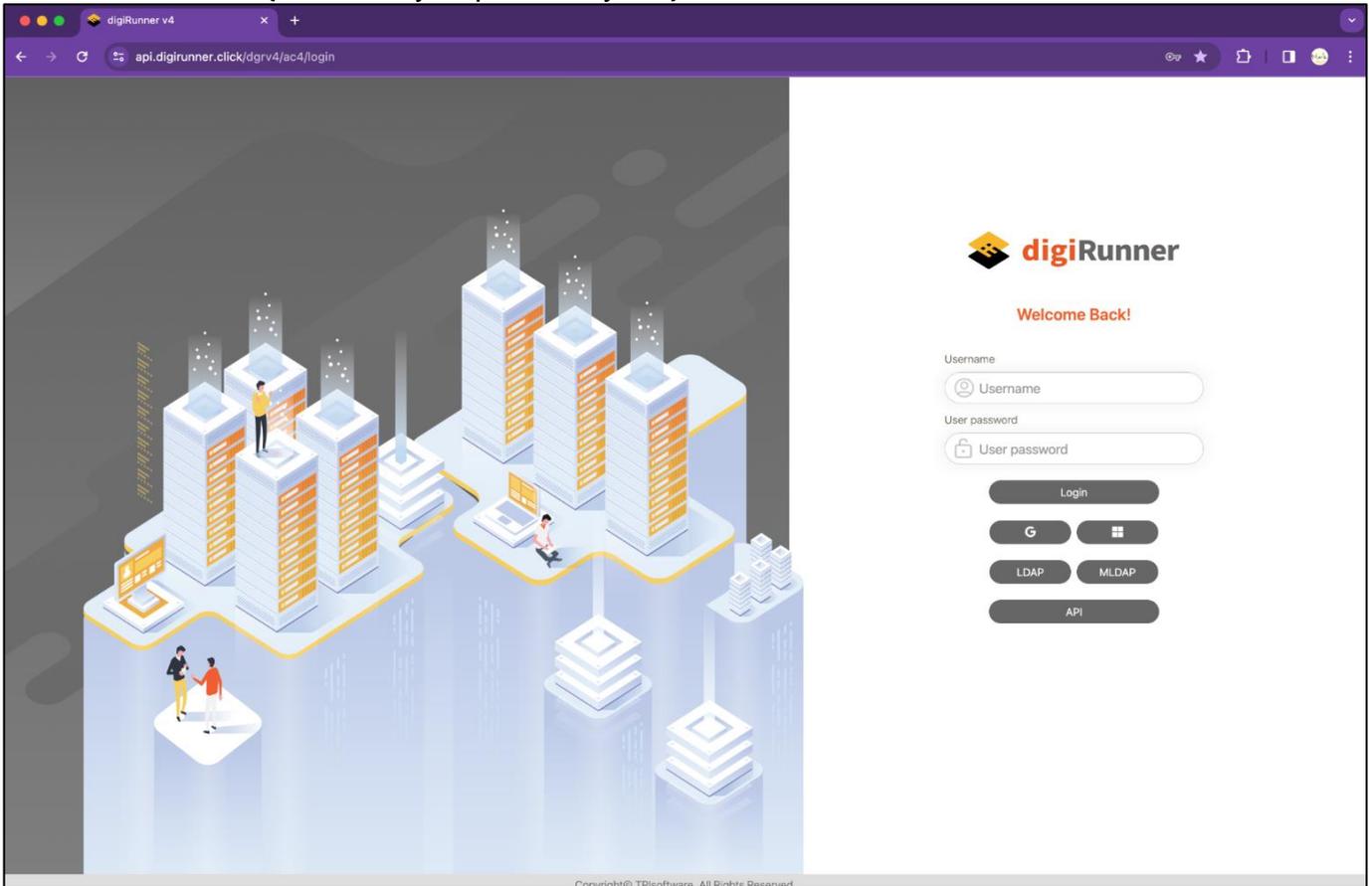


4. Refer to the table for digirunner operation instructions.

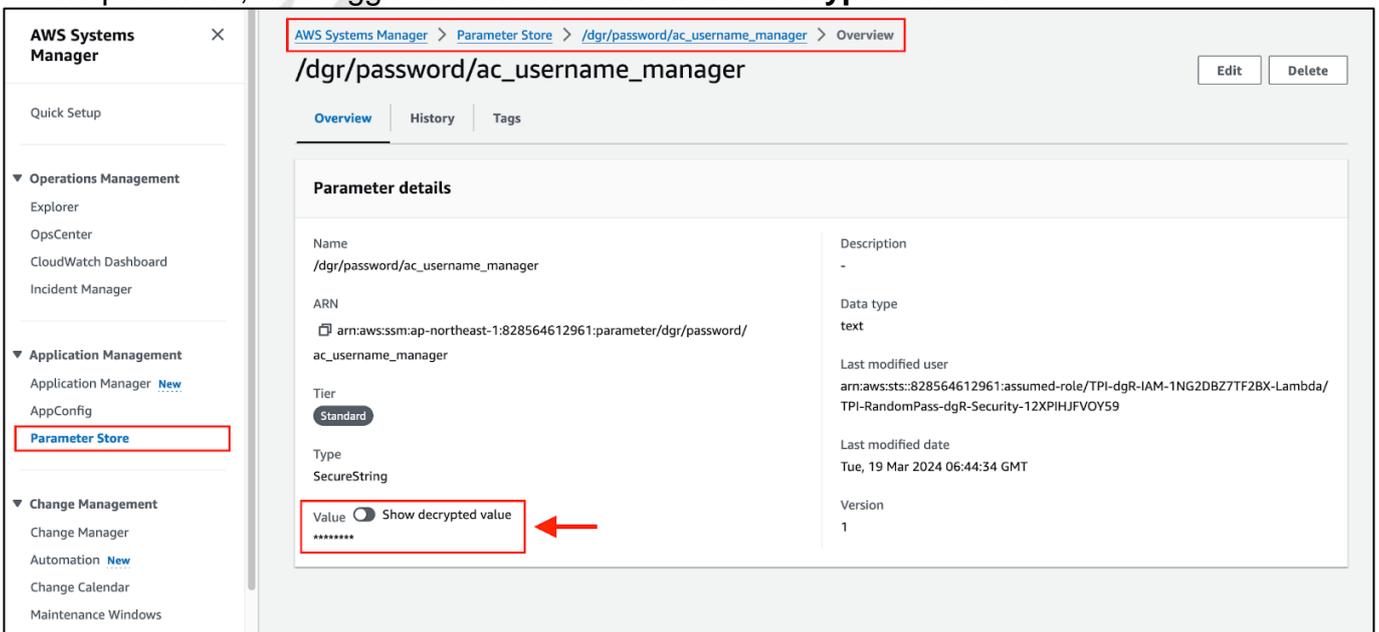
Manual Title	Key	Link
digirunner User Manual	UserManual	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_User_Manual_v3.1.1_EN.pdf
digirunner API Composer Operation Manual	UserManualComposer	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_Composer_Manual_v2.0.1_EN.pdf
digirunner Scenarios Manual	UserManualScenarios	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_Scenarios_Manual_v4.03_EN.pdf

4. digiRunner Login

- Log in with the default username and password:
 - Username:** manager
 - Password:** {the value you previously set}



- If you forget the password, go to **AWS Systems Manager > Parameter Store > /dgr/password/ac_username_manager**. Under the **Overview** tab, find the **Value** field for the password, and toggle the switch to **Show the decrypted value**.



3. Click on **About** to view the version number of digiRunner.

The screenshot shows the 'About digiRunner' page. On the left is a navigation menu with items like 'AC User Management', 'Development Mode', 'Client Management', 'API Management', 'Monitor & Alert', 'Reports', 'Certificate Management', 'Application Forms', 'System Information', and 'System Configs'. The main content area displays the digiRunner logo, the version number **v4.0.49.1**, and system information: 'Enterprise_Lite Exp : 9999/12/31', 'Version : v4.0.49.1', and 'Account : AWSmarket'. In the top right corner, a user menu is visible with options for 'Profile', 'About' (highlighted with a red arrow), and 'Log out'.

4. If the **High Availability** solutions are installed, multiple **Containers** will be displayed on the **digiRunner Server** page; otherwise, only one Container will be shown.

The screenshot shows the 'digiRunner Server' page. The left navigation menu has 'Monitor & Alert' selected, with 'digiRunner Server' highlighted by a red arrow. The main content area is divided into several sections:

- Summary:** A table showing system metrics:

Users	1 / 0 / 0 (enabled / disabled / locked)
Roles	1
Clients	1 / 0 / 0 (enabled / disabled / locked)
Groups	1
Register APIs	0 / 0 (on / off)
Composer APIs	1 / 0 (on / off)
- Audit (Last 7 days):** A table showing login and API activity:

Login	2 / 1 (Success / Fail)
User	0 / 3 / 0 (Create / Update / Delete)
Role	0 / 0 / 0 (Create / Update / Delete)
Client	1 / 0 / 0 (Create / Update / Delete)
Group	0 / 0 / 0 (Create / Update / Delete)
Register API	0 / 0 / 0 (Create / Update / Delete)
Composer API	2 / 2 / 0 (Create / Update / Delete)
- Running Node:** A section containing two container configuration tables, highlighted with a red box:

gateway-2ATP	
Foreign IP	10.184.54.237
Foreign port	44426
Keeper Server IP	keeper.digirunner.tpisoftware
Keeper Server Port	8445
Rcd Cache Size	2
Dao Cache Size	36
Fix Cache Size	0
Web local IP	10.184.54.237 (ip-10-184-54-237.ap-northeast-

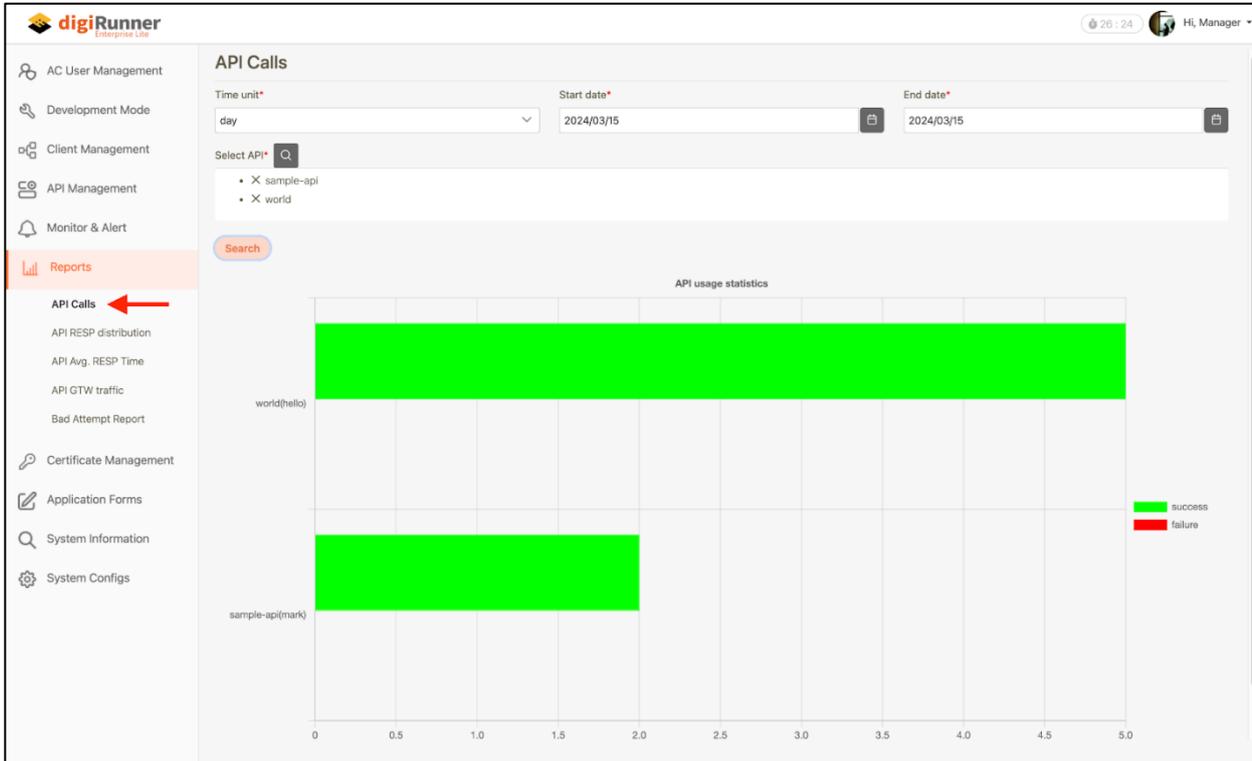
gateway-x7ON	
Foreign IP	127.0.0.1
Foreign port	46560
Keeper Server IP	127.0.0.1
Keeper Server Port	8445
Rcd Cache Size	0
Dao Cache Size	8
Fix Cache Size	0
Web local IP	127.0.0.1 (localhost)

5. digiRunner Reports and Architecture

5.1. digiRunner Reports

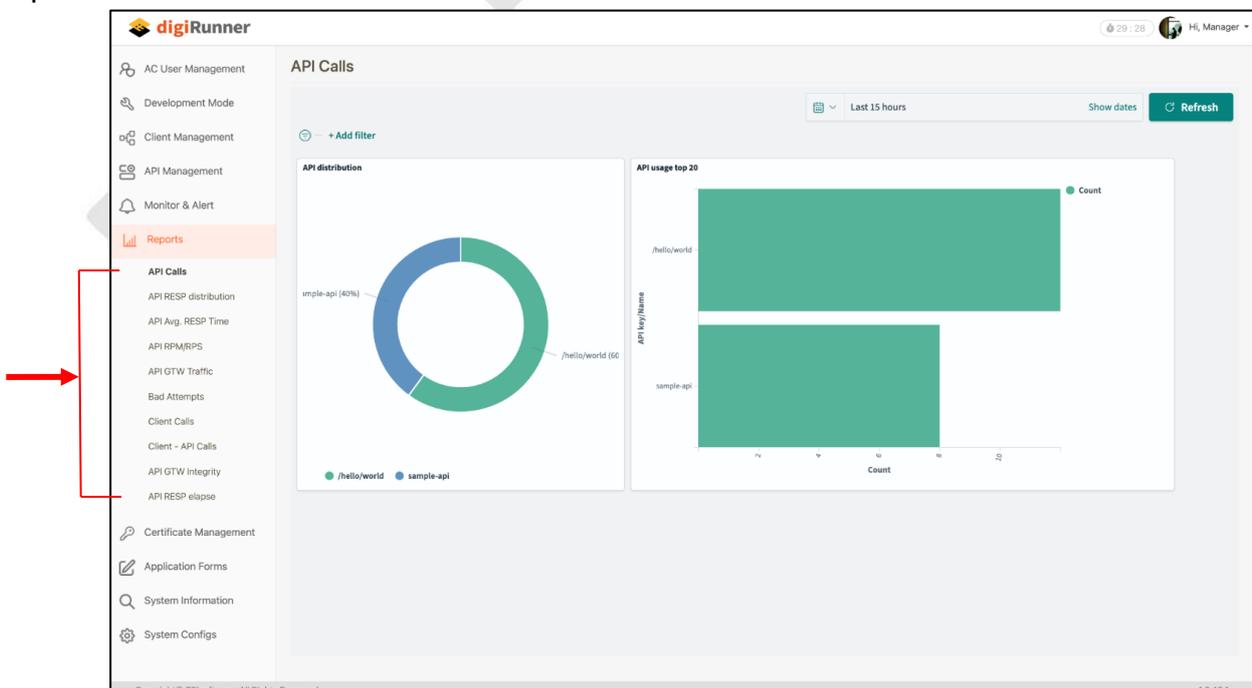
5.1.1. Basic Reports

digiRunner Lite and digiRunner Lite (High Availability) provide basic reports.



5.1.2. Detailed Reports

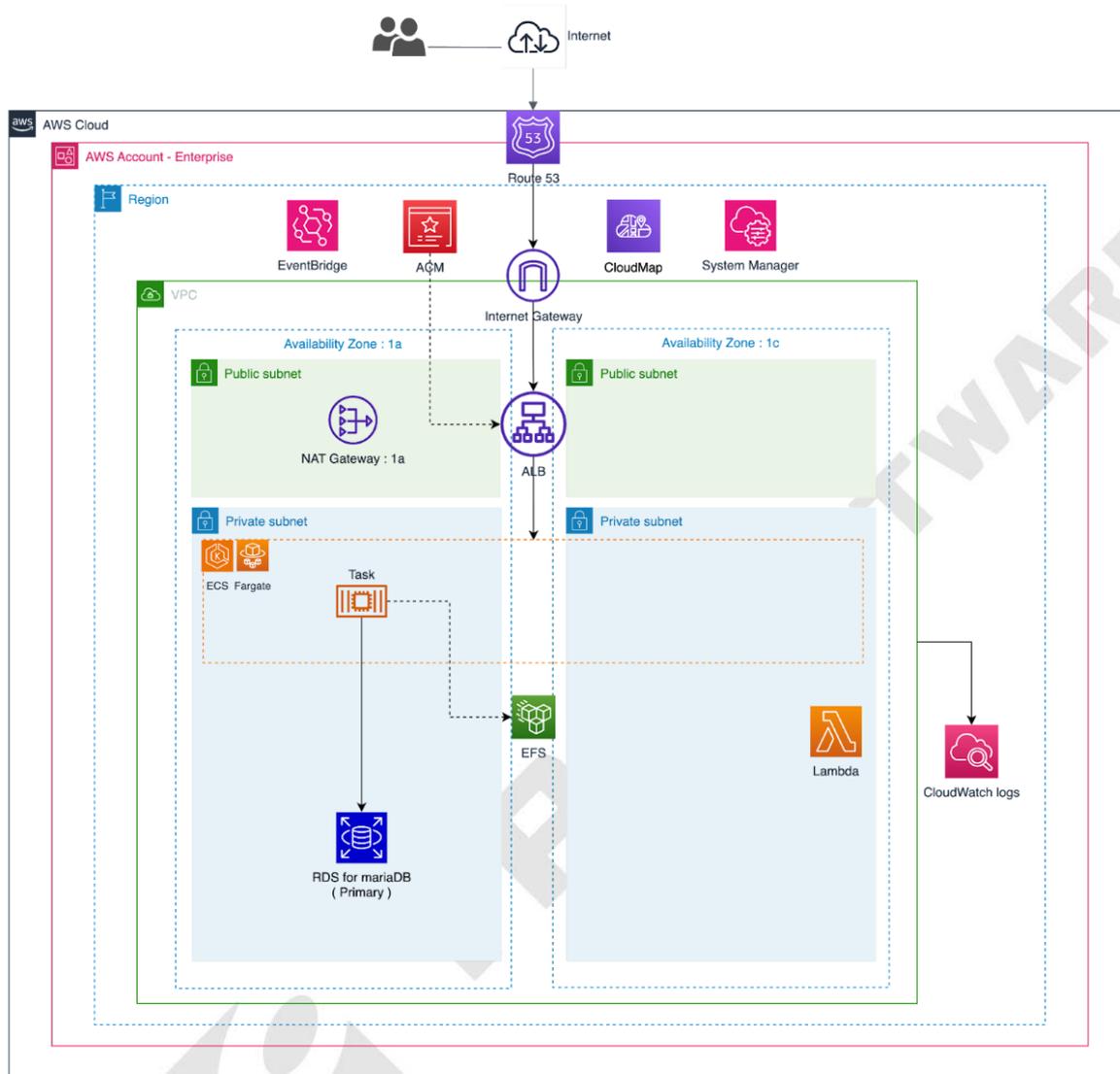
digiRunner Enterprise and digiRunner Enterprise (High Availability) provide detailed reports.



5.2. digiRunner Architecture

5.2.1. Architecture - digiRunner Lite

1. Architecture

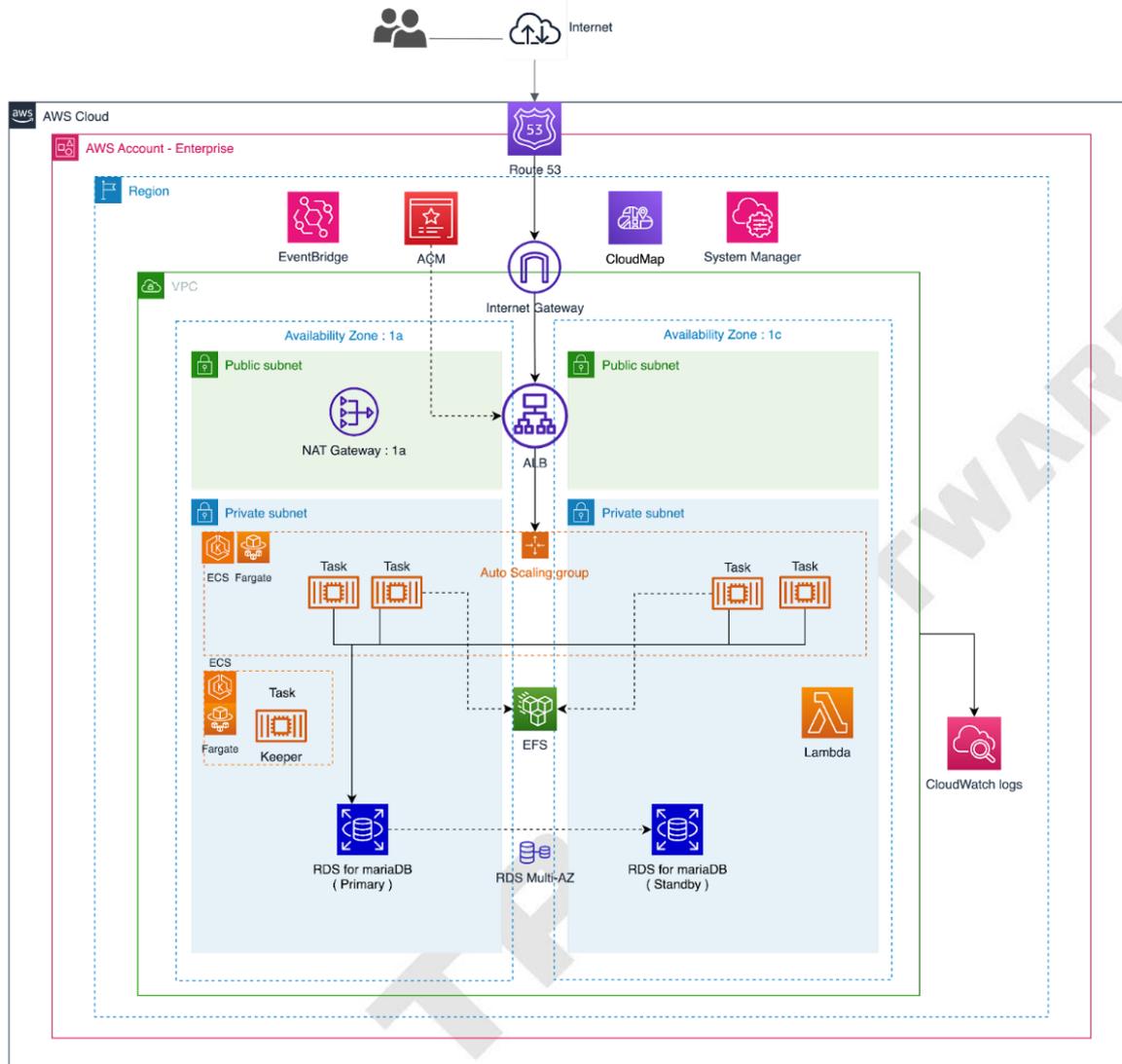


2. AWS Infrastructure Resources – Pricing

Resource	Resource Full Name	Pricing
VPC	Virtual Private Cloud - NAT gateway	https://aws.amazon.com/vpc/pricing/
Route 53	Route 53	https://aws.amazon.com/route53/pricing/
Cloud Map	Cloud Map	https://aws.amazon.com/cloud-map/pricing/
ECS	Elastic Container Service - Fargate	https://aws.amazon.com/fargate/pricing/
RDS for mariaDB	Relational Database Service	https://aws.amazon.com/fargate/pricing/
EFS	Elastic File System	https://aws.amazon.com/efs/pricing/
ELB	Elastic Load Balancer	https://aws.amazon.com/elasticloadbalancing/pricing/
EventBridge	EventBridge	https://aws.amazon.com/eventbridge/pricing/
Lambda	Lambda	https://aws.amazon.com/lambda/pricing/
CloudWatch	CloudWatch	https://aws.amazon.com/cloudwatch/pricing/

5.2.2. Architecture - digRunner Lite (High Availability)

1. Architecture

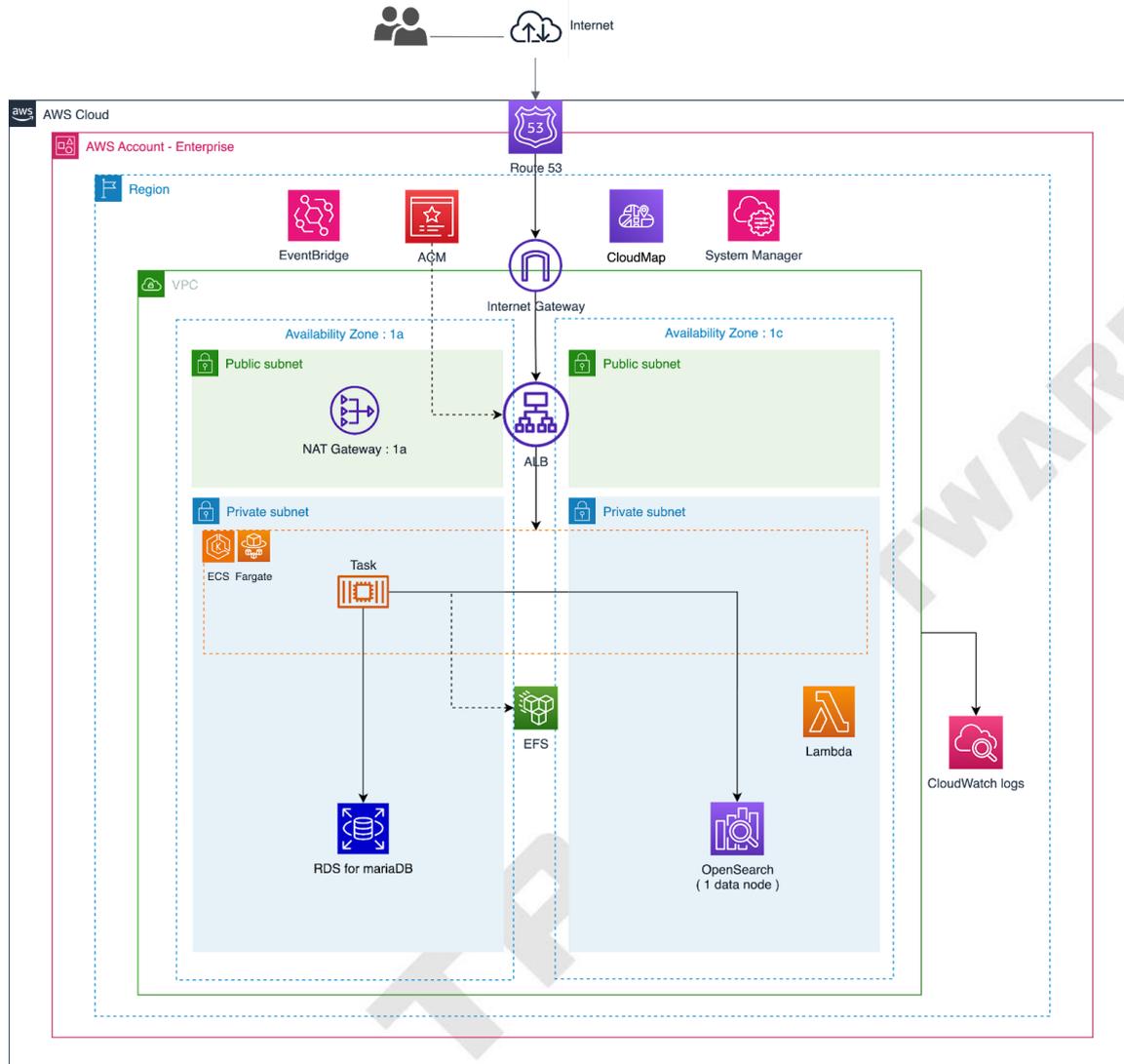


2. AWS Infrastructure Resources – Pricing

Resource	Resource Full Name	Pricing
VPC	Virtual Private Cloud - NAT gateway	https://aws.amazon.com/vpc/pricing/
Route 53	Route 53	https://aws.amazon.com/route53/pricing/
Cloud Map	Cloud Map	https://aws.amazon.com/cloud-map/pricing/
ECS	Elastic Container Service – Fargate (Autoscaling)	https://aws.amazon.com/fargate/pricing/
RDS for mariaDB	Relational Database Service (Multi-AZ)	https://aws.amazon.com/fargate/pricing/
EFS	Elastic File System	https://aws.amazon.com/efs/pricing/
ELB	Elastic Load Balancer	https://aws.amazon.com/elasticloadbalancing/pricing/
EventBridge	EventBridge	https://aws.amazon.com/eventbridge/pricing/
Lambda	Lambda	https://aws.amazon.com/lambda/pricing/
CloudWatch	CloudWatch	https://aws.amazon.com/cloudwatch/pricing/

5.2.3. Architecture - digRunner Enterprise

1. Architecture

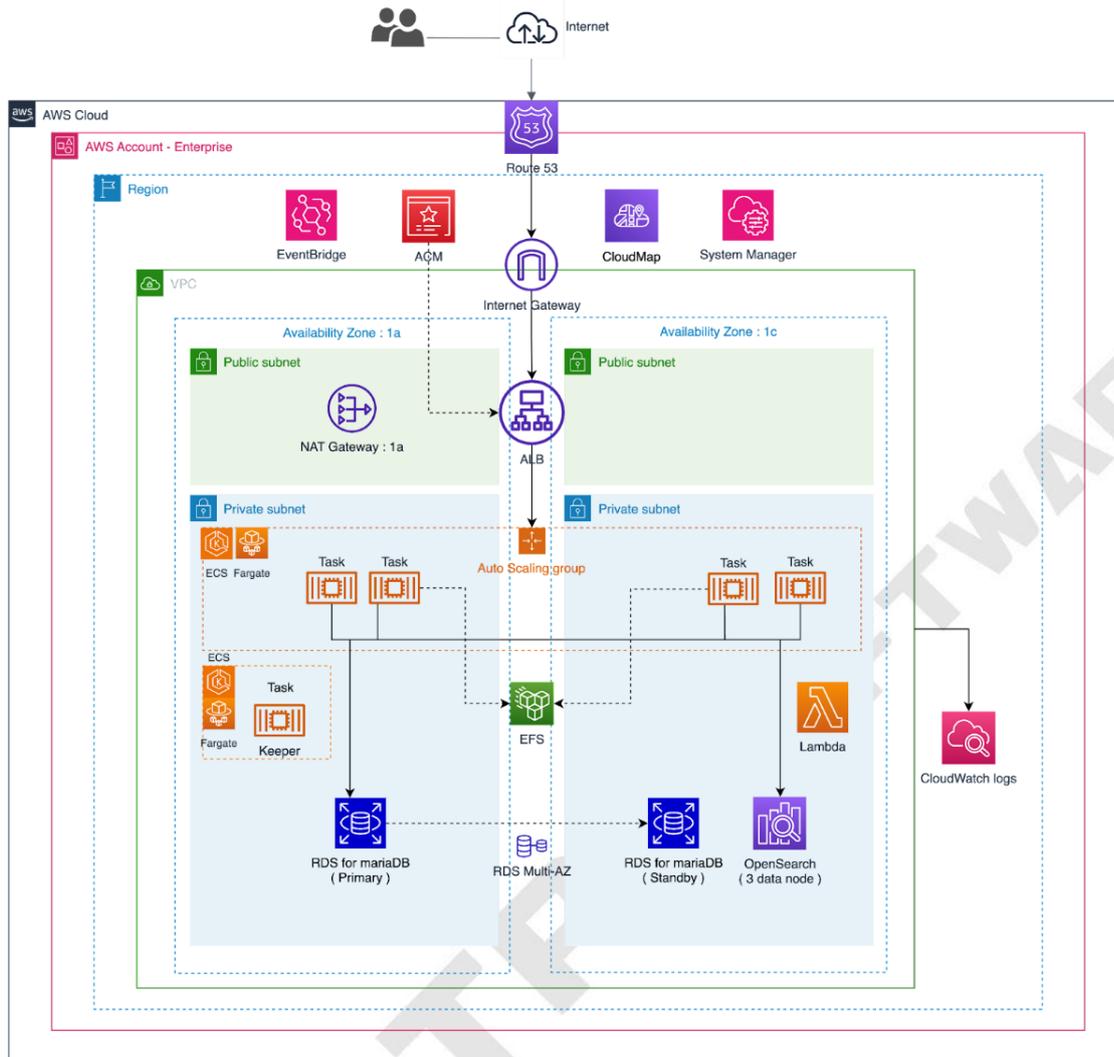


2. AWS Infrastructure Resources – Pricing

Resource	Resource Full Name	Pricing
VPC	Virtual Private Cloud - NAT gateway	https://aws.amazon.com/vpc/pricing/
Route 53	Route 53	https://aws.amazon.com/route53/pricing/
Cloud Map	Cloud Map	https://aws.amazon.com/cloud-map/pricing/
ECS	Elastic Container Service – Fargate	https://aws.amazon.com/fargate/pricing/
RDS for mariaDB	Relational Database Service	https://aws.amazon.com/fargate/pricing/
EFS	Elastic File System	https://aws.amazon.com/efs/pricing/
ELB	Elastic Load Balancer	https://aws.amazon.com/elasticloadbalancing/pricing/
EventBridge	EventBridge	https://aws.amazon.com/eventbridge/pricing/
Lambda	Lambda	https://aws.amazon.com/lambda/pricing/
CloudWatch	CloudWatch	https://aws.amazon.com/cloudwatch/pricing/
OpenSearch	OpenSearch (1 data node)	https://aws.amazon.com/opensearch-service/pricing/

5.2.4. Architecture - digirunner Enterprise (High Availability)

1. Architecture



2. AWS Infrastructure Resources – Pricing

Resource	Resource Full Name	Pricing
VPC	Virtual Private Cloud - NAT gateway	https://aws.amazon.com/vpc/pricing/
Route 53	Route 53	https://aws.amazon.com/route53/pricing/
Cloud Map	Cloud Map	https://aws.amazon.com/cloud-map/pricing/
ECS	Elastic Container Service – Fargate (Autoscaling)	https://aws.amazon.com/fargate/pricing/
RDS for mariaDB	Relational Database Service (Multi-AZ)	https://aws.amazon.com/fargate/pricing/
EFS	Elastic File System	https://aws.amazon.com/efs/pricing/
ELB	Elastic Load Balancer	https://aws.amazon.com/elasticloadbalancing/pricing/
EventBridge	EventBridge	https://aws.amazon.com/eventbridge/pricing/
Lambda	Lambda	https://aws.amazon.com/lambda/pricing/
CloudWatch	CloudWatch	https://aws.amazon.com/cloudwatch/pricing/
OpenSearch	OpenSearch (3 data node)	https://aws.amazon.com/opensearch-service/pricing/

6. Uninstallation

1. To uninstall digiRunner, click on the root stack.
2. Click on **Delete** to complete the uninstallation.

The screenshot shows the AWS CloudFormation console interface. On the left, the 'Stacks (19)' list is visible, with the 'dgR' stack selected and highlighted in blue. A red arrow labeled '1' points to this stack. The main pane shows the details for the 'dgR' stack, with the 'Outputs' tab selected. In the top right corner of this pane, the 'Delete' button is highlighted with a red box, and a red arrow labeled '2' points to it. Below the 'Delete' button are 'Update', 'Stack actions', and 'Create stack' buttons. The 'Outputs' section contains a table with 6 entries:

Key	Value	Description
digiRunnerConsole	https://api.yourdomain.com/dgrv4/ac4/login	URL to access digiRunner Console.
digiRunnerUserName	manager	Username to login digiRunner Console.
digiRunnerUserPassword	*****	If you forget it, go to AWS Systems Manager Parameter Store to see the "/dgr/password/ac_username_manager" parameter value.
UserManual	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_User_Manual_v3.1.1_EN.pdf	digiRunner User Manual.
UserManualComposer	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_Composer_Manual_v2.0.1_EN.pdf	digiRunner API Composer Operation Manual.
UserManualScenarios	https://marketplace-digirunner.s3.ap-northeast-1.amazonaws.com/doc/digirunner_v4_Scenarios_Manual_v4.03_EN.pdf	digiRunner API Management Scenarios Manual.

7. Troubleshooting

If you had trouble installing the product, please uninstall first and refer to the following instructions to troubleshoot:

1. Ensure that at least one domain is registered or hosted on Route 53.
2. Ensure that the installation is performed using an AWS account with appropriate permissions (an Admin account is required).
3. Check if the VPC resource environment has reached its limit, such as the maximum number of VPCs being five or other restrictions. Refer to the [AWS documentation](#) for further details.
4. Confirm that the set password complies with the rules: Must be 8 to 12 characters and include upper and lower case letters, numbers, and special characters (@#\$!%*?&).
5. Ensure there are no conflicts between the configured subnet and existing subnets.
6. Ensure that all data entered during the installation process is accurately selected and filled out.
7. If the above issues have been ruled out, it may be an AWS system anomaly. Please try reinstalling.

Appendix

- Technical Support
Email: eapdd_aws@tpisoftware.com
- Contact Sales
Email: service@tpisoftware.com

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