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Reference for App Specification

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App Platform is a Platform-as-a-Service (PaaS) offering that allows developers to publish code directly to DigitalOcean servers without worrying about the underlying infrastructure.

As an alternative to configuring your app in the control panel, you can define an app specification using YAML. YAML-based app specs are useful for deploying fully-configured apps with the [DigitalOcean API](#) or `doctl`, the [DigitalOcean command-line tool](#).



App Spec Definition

[App Spec](#)

The application specification, or app spec, is a YAML manifest that declaratively states everything about your App Platform app, including each resource and all of your app's [environment variables](#) and configuration variables.



Example App Spec

This example app spec defines a single service, `api`, and a single static site, `website`. A CORS exception is defined for `internal.example-app.com`, and an alert is triggered in the event of deployment failure.

example-app-spec.yaml

```
alerts:
  - rule: DEPLOYMENT_FAILED
  - rule: DOMAIN_FAILED
features:
  - buildpack-stack=ubuntu-22
ingress:
  rules:
    - component:
        name: api
        match:
          path:
            prefix: /api
    - component:
        name: website
        cors:
          allow_origins:
            - prefix: https://internal.example-app.com
        match:
          path:
            prefix: /
name: your-app
region: nyc
services:
  - environment_slug: go
    github:
      branch: main
      deploy_on_push: true
      repo: git-user-name/api
      http_port: 8080
      instance_count: 2
      instance_size_slug: professional-xs
    name: api
    run_command: bin/api
    source_dir: /
  static_sites:
    - environment_slug: html
      github:
        branch: master
        deploy_on_push: true
        repo: git-user-name/website
      name: website
      source_dir: /
```



YAML File Structure

This reference covers all possible values that can be defined in an app spec. Whitespace defines hierarchy in YAML files, so this reference uses whitespace to nest child values under parent values. Where the string (array) appears, you can define more than one of the child values, but you must prefix them with a `-` dash as shown, per YAML syntax.

Search spec...

name

String. The name of the app. Must be unique across all apps in the same account.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: `^a-z {a-z0-9-}{0,30}[a-z0-9]$`

services (array)

Array of Objects. Workloads which expose publicly-accessible HTTP services.

- name

git

Object. A Git repo to use as component's source. Only one of `git`, `github`, `gitlab`, or `image` must be set.



repo_clone_url

String. The clone URL of the repo. Example: <https://github.com/digitalocean/sample-golang.git>

Maximum length: 255

branch

String. The name of the branch to use

github

Object. A GitHub repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo. Example: digitalocean/sample-golang

Must comply with the following regular expression: ^[^\n]+/[^\n]+\\$

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

image

Object. An image to use as the component's source. Only one of git, github, gitlab, or image must be set.

registry_type

String. The registry type.

- DOCR: The DigitalOcean container registry type.
- DOCKER_HUB: The DockerHub container registry type.
- GHCR: The Github container registry type.

registry

String. The registry name. Must be left empty for the DOCR registry type. Required for the DOCKER_HUB registry type.

Maximum length: 192

repository

String. The repository name.

Maximum length: 192

tag

String. The repository tag. Defaults to latest if not provided and no digest is provided. Cannot be specified if digest is provided.

Maximum length: 192

digest

String. The image digest. Cannot be specified if tag is provided.

Maximum length: 192

registry_credentials

String. The credentials to be able to pull the image. The value will be encrypted on first submission. On following submissions, the encrypted value should be used.

- "\$username:\$access_token" for registries of type DOCKER_HUB.
- "\$username:\$access_token" for registries of type GHCR.

deploy_on_push

Object. Deploy on new image tags. Only for DOCR images.

enabled

Boolean. Automatically deploy new images. Only for DOCR images. Can't be enabled when a specific digest is specified.

gitlab

Object. A GitLab repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo or owner/subgroup/repo. Example: digitalocean/sample-golang or digitalocean/subgroup/sample-golang

Must comply with the following regular expression: `^[^/]+(/[^/]+)+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

dockerfile_path

String. The path to the Dockerfile relative to the root of the repo. If set, it will be used to build this component. Otherwise, App Platform will attempt to build it using buildpacks.

build_command

String. An optional build command to run while building this component from source.

run_command

String. An optional run command to override the component's default.

source_dir

String. An optional path to the working directory to use for the build. For Dockerfile builds, this will be used as the build context. Must be relative to the root of the repo.

environment_slug

String. A slug identifying the type of app, such as node-js. Available values are node-js, php, ruby, python, go, hu go, html, hexo, ruby-on-rails, jekyll, and gatsby.

envs (array)

Array of Objects. A list of environment variables made available to the component.

- key

String. The name

Must comply with the following regular expression: `^[_A-Za-z][_A-Za-z0-9]*$`

value

String. The value. If the type is SECRET, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- RUN_TIME: Made available only at run-time
- BUILD_TIME: Made available only at build-time
- RUN_AND_BUILD_TIME: Made available at both build and run-time

type

String. The type

- GENERAL: A plain-text environment variable
- SECRET: A secret encrypted environment variable

instance_size_slug

String. The instance size to use for this component. Default: basic-xxs

instance_count

Integer. The amount of instances that this component should be scaled to.

autoscaling

Object. Configuration for automatically scaling this component based on metrics.

min_instance_count

Integer. The minimum amount of instances for this component.

max_instance_count

Integer. The maximum amount of instances for this component.

metrics

Object. The metrics that the component is scaled on.

cpu

Object. Settings for scaling the component based on CPU utilization.



percent

Integer. The average target CPU utilization for the component.

http_port

Integer. The internal port on which this service's run command will listen. Default: 8080 If there is not an environment variable with the name PORT, one will be automatically added with its value set to the value of this field.

routes (array)

Array of Objects. (Deprecated) A list of HTTP routes that should be routed to this component.

- path

String. (Deprecated) An HTTP path prefix. Paths must start with / and must be unique across all components within an app.

preserve_path_prefix

Boolean. (Deprecated) An optional flag to preserve the path that is forwarded to the backend service. By default, the HTTP request path will be trimmed from the left when forwarded to the component. For example, a component with path=/api will have requests to /api/list trimmed to /list. If this value is true, the path will remain /api/list. Note: this is not applicable for Functions Components.

health_check

Object. A health check to determine the availability of this component.

initial_delay_seconds

Integer. The number of seconds to wait before beginning health checks. Default: 0 seconds, Minimum 0, Maximum 3600.

period_seconds

Integer. The number of seconds to wait between health checks. Default: 10 seconds, Minimum 1, Maximum 300.

timeout_seconds

Integer. The number of seconds after which the check times out. Default: 1 second, Minimum 1, Maximum 120.

success_threshold

Integer. The number of successful health checks before considered healthy. Default: 1, Minimum 1, Maximum 50.

failure_threshold

Integer. The number of failed health checks before considered unhealthy. Default: 9, Minimum 1, Maximum 50.

http_path

String. The route path used for the HTTP health check ping. If not set, the HTTP health check will be disabled and a TCP health check used instead.

port

Integer. The port on which the health check will be performed. If not set, the health check will be performed on the component's http_port.

cors

Object. (Deprecated, see ingress > rules > cors) A Cross-Origin Resource Sharing policy (CORS).

allow_origins (array)

Array of Objects. The set of allowed CORS origins. This configures the Access-Control-Allow-Origin header.

- exact

String. Exact string match. Only 1 of exact, prefix, or regex must be set.

Minimum length: 1. Maximum length: 256

regex

String. RE2 style regex-based match. Only 1 of exact, prefix, or regex must be set. For more information about RE2 syntax, see: <https://github.com/google/re2/wiki/Syntax>

Minimum length: 1. Maximum length: 256

allow_methods (array)

Array of Strings. The set of allowed HTTP methods. This configures the Access-Control-Allow-Methods header.



allow_headers (array)

Array of Strings. The set of allowed HTTP request headers. This configures the Access-Control-Allow-Headers header.



expose_headers (array)

Array of Strings. The set of HTTP response headers that browsers are allowed to access. This configures the Access-Control-Expose-Headers header.



max_age

String. An optional duration specifying how long browsers can cache the results of a preflight request. This configures the Access-Control-Max-Age header. Example: 5h30m.



allow_credentials

Boolean. Whether browsers should expose the response to the client-side JavaScript code when the request's credentials mode is include. This configures the Access-Control-Allow-Credentials header.



internal_ports (array)

Array of Int64s. The ports on which this service will listen for internal traffic.



alerts (array)

Array of Objects. A list of configured alerts which apply to the component.



- rule

String. The specific type of alert.

- CPU_UTILIZATION: Represents CPU for a given container instance. Only applicable at the component level.
- MEM_UTILIZATION: Represents RAM for a given container instance. Only applicable at the component level.
- RESTART_COUNT: Represents restart count for a given container instance. Only applicable at the component level.
- DEPLOYMENT_FAILED: Represents whether a deployment has failed. Only applicable at the app level.
- DEPLOYMENT_LIVE: Represents whether a deployment has succeeded. Only applicable at the app level.
- DEPLOYMENT_STARTED: Represents whether a deployment has started. Only applicable at the app level.
- DEPLOYMENT_CANCELED: Represents whether a deployment has been canceled. Only applicable at the app level.
- DOMAIN_FAILED: Represents whether a domain configuration has failed. Only applicable at the app level.
- DOMAIN_LIVE: Represents whether a domain configuration has succeeded. Only applicable at the app level.
- FUNCTIONS_ACTIVATION_COUNT: Represents an activation count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_DURATION_MS: Represents the average duration for function runtimes. Only applicable to functions components.
- FUNCTIONS_ERROR_RATE_PER_MINUTE: Represents an error rate per minute for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_WAIT_TIME_MS: Represents the average wait time for functions. Only applicable to functions components.
- FUNCTIONS_ERROR_COUNT: Represents an error count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_GB_RATE_PER_SECOND: Represents the rate of memory consumption (GB x seconds) for functions. Only applicable to functions components.



disabled

Boolean. Determines whether or not the alert is disabled.



operator

String. Can be GREATER_THAN, or LESS_THAN



value

Number. The meaning is dependent upon the rule. It is used in conjunction with the operator and window to determine when an alert should trigger.

window

String. Can be FIVE_MINUTES, TEN_MINUTES, THIRTY_MINUTES, or ONE_HOUR



log_destinations (array)

Array of Objects. A list of configured log forwarding destinations.



- name

String. Name of the log destination.

Minimum length: 2. Maximum length: 42.

Must comply with the following regular expression: ^[A-Za-z0-9()\\[\\]\""][-A-Za-z0-9_,\\/.\\[\\]]{0,40}[A-Za-z0-9()\\[\\]\""]\$

papertrail

Object. Papertrail configuration.

endpoint

String. Papertrail syslog endpoint.

datadog

Object. Datadog configuration.

endpoint

String. Datadog HTTP log intake endpoint.

api_key

String. Datadog API key.

logtail

Object. Logtail configuration.

token

String. Logtail token.

open_search

Object. OpenSearch configuration.

endpoint

String. OpenSearch API Endpoint. Only HTTPS is supported. Format: https://:. Cannot be specified if cluster_name is also specified.

basic_auth

Object.

user

String. Username to authenticate with. Only required when endpoint is set. Defaults to doadmin when cluster_name is set.

password

String. Password for user defined in User. Is required when endpoint is set. Cannot be set if using a DigitalOcean DBaaS OpenSearch cluster.

index_name

String. The index name to use for the logs. If not set, the default index name is "logs".

cluster_name

String. The name of a DigitalOcean DBaaS OpenSearch cluster to use as a log forwarding destination. Cannot be specified if endpoint is also specified.

termination

Object.

drain_seconds

Integer. The number of seconds to wait between selecting a container instance for termination and issuing the TERM signal. Selecting a container instance for termination begins an asynchronous drain of new requests on upstream load-balancers. Default: 15 seconds, Minimum 1, Maximum 110.

grace_period_seconds

Integer. The number of seconds to wait between sending a TERM signal to a container and issuing a KILL which causes immediate shutdown. Default: 120, Minimum 1, Maximum 600.

static_sites (array)

Array of Objects. Content which can be rendered to static web assets.

- name

String. The name. Must be unique across all components within the same app.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: ^[a-z][a-zA-Z-]{0,30}[a-zA-Z]\$

git

Object. A Git repo to use as component's source. Only one of git, github, or gitlab must be set.

repo_clone_url

String. The clone URL of the repo. Example: <https://github.com/digitalocean/sample-golang.git>

Maximum length: 255

branch

String. The name of the branch to use

github

Object. A GitHub repo to use as component's source. Only one of git, github, or gitlab must be set.

repo

String. The name of the repo in the format owner/repo. Example: digitalocean/sample-golang

Must comply with the following regular expression: `^[^/]+/[^/]+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

gitlab

Object. A GitLab repo to use as component's source. Only one of git, github, or gitlab must be set.

repo

String. The name of the repo in the format owner/repo or owner/subgroup/repo. Example: digitalocean/sample-golang or digitalocean/subgroup/sample-golang

Must comply with the following regular expression: `^[^/]+(/[^/]+)+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

dockerfile_path

String. The path to the Dockerfile relative to the root of the repo. If set, it will be used to build this component. Otherwise, App Platform will attempt to build it using buildpacks.

build_command

String. An optional build command to run while building this component from source.

source_dir

String. An optional path to the working directory to use for the build. For Dockerfile builds, this will be used as the build context. Must be relative to the root of the repo.

environment_slug

String. A slug identifying the type of app, such as node-js. Available values are node-js, php, ruby, python, go, hugo, html, hexo, ruby-on-rails, jekyll, and gatsby.

output_dir

String. An optional path to where the built assets will be located, relative to the build context. If not set, App Platform will automatically scan for these directory names: _static, dist, public, build.

index_document

String. The name of the index document to use when serving this static site. Default: index.html

error_document

String. The name of the error document to use when serving this static site. Default: 404.html. If no such file exists within the built assets, App Platform will supply one.

envs (array)

Array of Objects. A list of environment variables made available to the component.

- key

String. The name

Must comply with the following regular expression: `^[_A-Za-z][_A-Za-z0-9]*$`

value

String. The value. If the type is `SECRET`, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- `RUN_TIME`: Made available only at run-time
- `BUILD_TIME`: Made available only at build-time
- `RUN_AND_BUILD_TIME`: Made available at both build and run-time

type

String. The type

- `GENERAL`: A plain-text environment variable
- `SECRET`: A secret encrypted environment variable

routes (array)

Array of Objects. (Deprecated) A list of HTTP routes that should be routed to this component.

- path

String. (Deprecated) An HTTP path prefix. Paths must start with / and must be unique across all components within an app.

preserve_path_prefix

Boolean. (Deprecated) An optional flag to preserve the path that is forwarded to the backend service. By default, the HTTP request path will be trimmed from the left when forwarded to the component. For example, a component with `path=/api` will have requests to `/api/list` trimmed to `/list`. If this value is `true`, the path will remain `/api/list`. Note: this is not applicable for Functions Components.

cors

Object. (Deprecated, see `ingress > rules > cors`) A Cross-Origin Resource Sharing policy (CORS).

allow_origins (array)

Array of Objects. The set of allowed CORS origins. This configures the Access-Control-Allow-Origin header.

- exact

String. Exact string match. Only 1 of exact, prefix, or regex must be set.

Minimum length: 1. Maximum length: 256

regex

String. RE2 style regex-based match. Only 1 of exact, prefix, or regex must be set. For more information about RE2 syntax, see: <https://github.com/google/re2/wiki/Syntax>

Minimum length: 1. Maximum length: 256

allow_methods (array)

Array of Strings. The set of allowed HTTP methods. This configures the Access-Control-Allow-Methods header.

allow_headers (array)

Array of Strings. The set of allowed HTTP request headers. This configures the Access-Control-Allow-Headers header.

expose_headers (array)

Array of Strings. The set of HTTP response headers that browsers are allowed to access. This configures the Access-Control-Expose-Headers header.

max_age

String. An optional duration specifying how long browsers can cache the results of a preflight request. This configures the Access-Control-Max-Age header. Example: 5h30m.

allow_credentials

Boolean. Whether browsers should expose the response to the client-side JavaScript code when the request's credentials mode is `include`. This configures the Access-Control-Allow-Credentials header.

catchall_document

String. The name of the document to use as the fallback for any requests to documents that are not found when serving this static site. Only 1 of `catchall_document` or `error_document` can be set.

workers (array)

Array of Objects. Workloads which do not expose publicly-accessible HTTP services.

- name

String. The name. Must be unique across all components within the same app.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: ^[a-z][a-z0-9-]{0,30}[a-z0-9]\$

git

Object. A Git repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo_clone_url

String. The clone URL of the repo. Example: https://github.com/digitalocean/sample-golang.git

Maximum length: 255

branch

String. The name of the branch to use

github

Object. A GitHub repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo. Example: digitalocean/sample-golang

Must comply with the following regular expression: ^[^\n]+/[^\n]+\n\$

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

image

Object. An image to use as the component's source. Only one of git, github, gitlab, or image must be set.

registry_type

String. The registry type.

- DOCR: The DigitalOcean container registry type.
- DOCKER_HUB: The DockerHub container registry type.
- GHCR: The Github container registry type.

registry

String. The registry name. Must be left empty for the DOCR registry type. Required for the DOCKER_HUB registry type.

Maximum length: 192

repository

String. The repository name.

Maximum length: 192

tag

String. The repository tag. Defaults to latest if not provided and no digest is provided. Cannot be specified if digest is provided.

Maximum length: 192

digest

String. The image digest. Cannot be specified if tag is provided.

Maximum length: 192

registry_credentials

String. The credentials to be able to pull the image. The value will be encrypted on first submission. On following submissions, the encrypted value should be used.

- "\$username:\$access_token" for registries of type DOCKER_HUB.
- "\$username:\$access_token" for registries of type GHCR.

deploy_on_push

Object. Deploy on new image tags. Only for DOCR images.

enabled

Boolean. Automatically deploy new images. Only for DOCR images. Can't be enabled when a specific

digest is specified.

gitlab

Object. A GitLab repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo or owner/subgroup/repo. Example: digitalocean/sample-golang or digitalocean/subgroup/sample-golang

Must comply with the following regular expression: `^[/]+(/[^/]+)+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

dockerfile_path

String. The path to the Dockerfile relative to the root of the repo. If set, it will be used to build this component. Otherwise, App Platform will attempt to build it using buildpacks.

build_command

String. An optional build command to run while building this component from source.

run_command

String. An optional run command to override the component's default.

source_dir

String. An optional path to the working directory to use for the build. For Dockerfile builds, this will be used as the build context. Must be relative to the root of the repo.

environment_slug

String. A slug identifying the type of app, such as node-js. Available values are node-js, php, ruby, python, go, hugo, html, hexo, ruby-on-rails, jekyll, and gatsby.

envs (array)

Array of Objects. A list of environment variables made available to the component.

- key

String. The name

Must comply with the following regular expression: `^[_A-Za-z][_A-Za-z0-9]*$`

value

String. The value. If the type is SECRET, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- RUN_TIME: Made available only at run-time
- BUILD_TIME: Made available only at build-time
- RUN_AND_BUILD_TIME: Made available at both build and run-time

type

String. The type

- GENERAL: A plain-text environment variable
- SECRET: A secret encrypted environment variable

instance_size_slug

String. The instance size to use for this component.

instance_count

Integer. The amount of instances that this component should be scaled to. Default: 1

autoscaling

Object. Configuration for automatically scaling this component based on metrics.

min_instance_count

Integer. The minimum amount of instances for this component.

max_instance_count

Integer. The maximum amount of instances for this component.

metrics

Object. The metrics that the component is scaled on.

cpu

Object. Settings for scaling the component based on CPU utilization.

percent

Integer. The average target CPU utilization for the component.

alerts (array)

Array of Objects. A list of configured alerts which apply to the component.

- rule

String. The specific type of alert.

- CPU_UTILIZATION: Represents CPU for a given container instance. Only applicable at the component level.
- MEM_UTILIZATION: Represents RAM for a given container instance. Only applicable at the component level.
- RESTART_COUNT: Represents restart count for a given container instance. Only applicable at the component level.
- DEPLOYMENT_FAILED: Represents whether a deployment has failed. Only applicable at the app level.
- DEPLOYMENT_LIVE: Represents whether a deployment has succeeded. Only applicable at the app level.
- DEPLOYMENT_STARTED: Represents whether a deployment has started. Only applicable at the app level.
- DEPLOYMENT_CANCELED: Represents whether a deployment has been canceled. Only applicable at the app level.
- DOMAIN_FAILED: Represents whether a domain configuration has failed. Only applicable at the app level.
- DOMAIN_LIVE: Represents whether a domain configuration has succeeded. Only applicable at the app level.
- FUNCTIONS_ACTIVATION_COUNT: Represents an activation count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_DURATION_MS: Represents the average duration for function runtimes. Only applicable to functions components.
- FUNCTIONS_ERROR_RATE_PER_MINUTE: Represents an error rate per minute for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_WAIT_TIME_MS: Represents the average wait time for functions. Only applicable to functions components.
- FUNCTIONS_ERROR_COUNT: Represents an error count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_GB_RATE_PER_SECOND: Represents the rate of memory consumption (GB x seconds) for functions. Only applicable to functions components.

disabled

Boolean. Determines whether or not the alert is disabled.

operator

String. Can be GREATER_THAN, or LESS_THAN

value

Number. The meaning is dependent upon the rule. It is used in conjunction with the operator and window to determine when an alert should trigger.

window

String. Can be FIVE_MINUTES, TEN_MINUTES, THIRTY_MINUTES, or ONE_HOUR

log_destinations (array)

Array of Objects. A list of configured log forwarding destinations.

- name

String. Name of the log destination.

Minimum length: 2. Maximum length: 42.

Must comply with the following regular expression: ^[A-Za-z0-9()\\[\\]\""][-A-Za-z0-9_, \\/()\\[\\]]{0,40}{A-Za-z0-9()\\[\\]\""}\$

papertrail

Object. Papertrail configuration.

endpoint

String. Papertrail syslog endpoint.

datadog

Object. Datadog configuration.

endpoint

String. Datadog HTTP log intake endpoint.

api_key

String. Datadog API key.

logtail

Object. Logtail configuration.

token

String. Logtail token.

open_search

Object. OpenSearch configuration.

endpoint

String. OpenSearch API Endpoint. Only HTTPS is supported. Format: https://:. Cannot be specified if cluster_name is also specified.

basic_auth

Object.

user

String. Username to authenticate with. Only required when endpoint is set. Defaults to `doadmin` when `cluster_name` is set.

password

String. Password for user defined in User. Is required when endpoint is set. Cannot be set if using a DigitalOcean DBaaS OpenSearch cluster.

index_name

String. The index name to use for the logs. If not set, the default index name is "logs".

cluster_name

String. The name of a DigitalOcean DBaaS OpenSearch cluster to use as a log forwarding destination. Cannot be specified if endpoint is also specified.

termination

Object.

grace_period_seconds

Integer. The number of seconds to wait between sending a TERM signal to a container and issuing a KILL which causes immediate shutdown. Default: 120, Minimum 1, Maximum 600.

jobs (array)

Array of Objects. Pre and post deployment workloads which do not expose publicly-accessible HTTP routes.

- name

String. The name. Must be unique across all components within the same app.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: `^ [a-z] [a-zA-Z0-9-] {0,30} [a-zA-Z0-9]$`

git

Object. A Git repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo_clone_url

String. The clone URL of the repo. Example: `https://github.com/digitalocean/sample-golang.git`

Maximum length: 255

branch

String. The name of the branch to use

github

Object. A GitHub repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo. Example: digitalocean/sample-golang
Must comply with the following regular expression: ^[^\]+/[^\]+\$



branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

image

Object. An image to use as the component's source. Only one of git, github, gitlab, or image must be set.

registry_type

String. The registry type.

- DOCR: The DigitalOcean container registry type.
- DOCKER_HUB: The DockerHub container registry type.
- GHCR: The Github container registry type.

registry

String. The registry name. Must be left empty for the DOCR registry type. Required for the DOCKER_HUB registry type.

Maximum length: 192



repository

String. The repository name.

Maximum length: 192



tag

String. The repository tag. Defaults to latest if not provided and no digest is provided. Cannot be specified if digest is provided.

Maximum length: 192

digest

String. The image digest. Cannot be specified if tag is provided.

Maximum length: 192



registry_credentials

String. The credentials to be able to pull the image. The value will be encrypted on first submission. On following submissions, the encrypted value should be used.

- "\$username:\$access_token" for registries of type DOCKER_HUB.
- "\$username:\$access_token" for registries of type GHCR.

deploy_on_push

Object. Deploy on new image tags. Only for DOCR images.



enabled

Boolean. Automatically deploy new images. Only for DOCR images. Can't be enabled when a specific digest is specified.



gitlab

Object. A GitLab repo to use as component's source. Only one of git, github, gitlab, or image must be set.

repo

String. The name of the repo in the format owner/repo or owner/subgroup/repo. Example: digitalocean/sample-golang or digitalocean/subgroup/sample-golang

Must comply with the following regular expression: ^[^\]+(/[^/]+)+\$



branch

String. The name of the branch to use



deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo



dockerfile_path

String. The path to the Dockerfile relative to the root of the repo. If set, it will be used to build this component. Otherwise, App Platform will attempt to build it using buildpacks.

build_command

String. An optional build command to run while building this component from source.

run_command

String. An optional run command to override the component's default.

source_dir

String. An optional path to the working directory to use for the build. For Dockerfile builds, this will be used as the build context. Must be relative to the root of the repo.

environment_slug

String. A slug identifying the type of app, such as node-js. Available values are node-js, php, ruby, python, go, hugo, html, hexo, ruby-on-rails, jekyll, and gatsby.

envs (array)

Array of Objects. A list of environment variables made available to the component.

- key

String. The name

Must comply with the following regular expression: ^[_A-Za-z][_A-Za-z0-9]*\$

value

String. The value. If the type is SECRET, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- RUN_TIME: Made available only at run-time
- BUILD_TIME: Made available only at build-time
- RUN_AND_BUILD_TIME: Made available at both build and run-time

type

String. The type

- GENERAL: A plain-text environment variable
- SECRET: A secret encrypted environment variable

instance_size_slug

String. The instance size to use for this component.

instance_count

Integer. The amount of instances that this component should be scaled to. Default: 1

kind

String. The type of job and when it will be run during the deployment process.

- UNSPECIFIED: Default job type, will auto-complete to POST_DEPLOY kind.
- PRE_DEPLOY: Indicates a job that runs before an app deployment.
- POST_DEPLOY: Indicates a job that runs after an app deployment.
- FAILED_DEPLOY: Indicates a job that runs after a component fails to deploy.

alerts (array)

Array of Objects. A list of configured alerts which apply to the component.

- rule

String. The specific type of alert.

- CPU_UTILIZATION: Represents CPU for a given container instance. Only applicable at the component level.
- MEM_UTILIZATION: Represents RAM for a given container instance. Only applicable at the component level.
- RESTART_COUNT: Represents restart count for a given container instance. Only applicable at the component level.
- DEPLOYMENT_FAILED: Represents whether a deployment has failed. Only applicable at the app level.
- DEPLOYMENT_LIVE: Represents whether a deployment has succeeded. Only applicable at the app level.
- DEPLOYMENT_STARTED: Represents whether a deployment has started. Only applicable at the app level.
- DEPLOYMENT_CANCELED: Represents whether a deployment has been canceled. Only applicable at the app level.
- DOMAIN_FAILED: Represents whether a domain configuration has failed. Only applicable at the app level.
- DOMAIN_LIVE: Represents whether a domain configuration has succeeded. Only applicable at the app level.
- FUNCTIONS_ACTIVATION_COUNT: Represents an activation count for a given functions instance. Only applicable to Functions components

- applicable to functions components.
- **FUNCTIONS_AVERAGE_DURATION_MS**: Represents the average duration for function runtimes. Only applicable to functions components.
 - **FUNCTIONS_ERROR_RATE_PER_MINUTE**: Represents an error rate per minute for a given functions instance. Only applicable to functions components.
 - **FUNCTIONS_AVERAGE_WAIT_TIME_MS**: Represents the average wait time for functions. Only applicable to functions components.
 - **FUNCTIONS_ERROR_COUNT**: Represents an error count for a given functions instance. Only applicable to functions components.
 - **FUNCTIONS_GB_RATE_PER_SECOND**: Represents the rate of memory consumption (GB x seconds) for functions. Only applicable to functions components.

disabled

Boolean. Determines whether or not the alert is disabled.

operator

String. Can be GREATER_THAN, or LESS_THAN

value

Number. The meaning is dependent upon the rule. It is used in conjunction with the operator and window to determine when an alert should trigger.

window

String. Can be FIVE_MINUTES, TEN_MINUTES, THIRTY_MINUTES, or ONE_HOUR

log_destinations (array)

Array of Objects. A list of configured log forwarding destinations.

– **name**

String. Name of the log destination.

Minimum length: 2. Maximum length: 42.

Must comply with the following regular expression: ^[A-Za-z0-9()\\[\\]\""][-A-Za-z0-9_, \\/()\\[]]{0,40}[A-Za-z0-9()\\[\\]\""]\$

papertrail

Object. Papertrail configuration.

endpoint

String. Papertrail syslog endpoint.

datadog

Object. Datadog configuration.

endpoint

String. Datadog HTTP log intake endpoint.

api_key

String. Datadog API key.

logtail

Object. Logtail configuration.

token

String. Logtail token.

open_search

Object. OpenSearch configuration.

endpoint

String. OpenSearch API Endpoint. Only HTTPS is supported. Format: https://:. Cannot be specified if cluster_name is also specified.

basic_auth

Object.

user

String. Username to authenticate with. Only required when endpoint is set. Defaults to doadmin when cluster_name is set.

password

String. Password for user defined in User. Is required when `endpoint` is set. Cannot be set if using a DigitalOcean DBaaS OpenSearch cluster.

index_name

String. The index name to use for the logs. If not set, the default index name is "logs".

cluster_name

String. The name of a DigitalOcean DBaaS OpenSearch cluster to use as a log forwarding destination. Cannot be specified if `endpoint` is also specified.

termination

Object.

grace_period_seconds

Integer. The number of seconds to wait between sending a TERM signal to a container and issuing a KILL which causes immediate shutdown. Default: 120, Minimum 1, Maximum 600.

functions (array)

Array of Objects. Workloads which expose publicly-accessible HTTP services via Functions Components.

- name

String. The name. Must be unique across all components within the same app.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: `^[a-z][a-z0-9-]{0,30}[a-z0-9]$`

git

Object. A Git repo to use as component's source. Only one of `git`, `github`, or `gitlab` must be set.

repo_clone_url

String. The clone URL of the repo. Example: `https://github.com/digitalocean/sample-golang.git`

Maximum length: 255

branch

String. The name of the branch to use

github

Object. A GitHub repo to use as component's source. Only one of `git`, `github`, or `gitlab` must be set.

repo

String. The name of the repo in the format owner/repo. Example: `digitalocean/sample-golang`

Must comply with the following regular expression: `^[^/]+/[^\n]+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

gitlab

Object. A GitLab repo to use as component's source. Only one of `git`, `github`, or `gitlab` must be set.

repo

String. The name of the repo in the format owner/repo or owner/subgroup/repo. Example: `digitalocean/sample-golang` or `digitalocean/subgroup/sample-golang`

Must comply with the following regular expression: `^[^/]+(/[^/]+)+$`

branch

String. The name of the branch to use

deploy_on_push

Boolean. Whether to automatically deploy new commits made to the repo

source_dir

String. An optional path to the working directory to use for the build. Must be relative to the root of the repo.

envs (array)

Array of Objects. A list of environment variables made available to the component.

- key

String. The name

Must comply with the following regular expression: ^[_A-Za-z] [_A-Za-z0-9]*\$

value

String. The value. If the type is SECRET, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- RUN_TIME: Made available only at run-time
- BUILD_TIME: Made available only at build-time
- RUN_AND_BUILD_TIME: Made available at both build and run-time

type

String. The type

- GENERAL: A plain-text environment variable
- SECRET: A secret encrypted environment variable



routes (array)

Array of Objects. (Deprecated) A list of HTTP routes that should be routed to this component.

- path

String. (Deprecated) An HTTP path prefix. Paths must start with / and must be unique across all components within an app.

preserve_path_prefix

Boolean. (Deprecated) An optional flag to preserve the path that is forwarded to the backend service. By default, the HTTP request path will be trimmed from the left when forwarded to the component. For example, a component with path=/api will have requests to /api/list trimmed to /list. If this value is true, the path will remain /api/list. Note: this is not applicable for Functions Components.

alerts (array)

Array of Objects. A list of configured alerts the user has enabled.

- rule

String. The specific type of alert.

- CPU_UTILIZATION: Represents CPU for a given container instance. Only applicable at the component level.
- MEM_UTILIZATION: Represents RAM for a given container instance. Only applicable at the component level.
- RESTART_COUNT: Represents restart count for a given container instance. Only applicable at the component level.
- DEPLOYMENT_FAILED: Represents whether a deployment has failed. Only applicable at the app level.
- DEPLOYMENT_LIVE: Represents whether a deployment has succeeded. Only applicable at the app level.
- DEPLOYMENT_STARTED: Represents whether a deployment has started. Only applicable at the app level.
- DEPLOYMENT_CANCELED: Represents whether a deployment has been canceled. Only applicable at the app level.
- DOMAIN_FAILED: Represents whether a domain configuration has failed. Only applicable at the app level.
- DOMAIN_LIVE: Represents whether a domain configuration has succeeded. Only applicable at the app level.
- FUNCTIONS_ACTIVATION_COUNT: Represents an activation count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_DURATION_MS: Represents the average duration for function runtimes. Only applicable to functions components.
- FUNCTIONS_ERROR_RATE_PER_MINUTE: Represents an error rate per minute for a given functions instance. Only applicable to functions components.
- FUNCTIONS_AVERAGE_WAIT_TIME_MS: Represents the average wait time for functions. Only applicable to functions components.
- FUNCTIONS_ERROR_COUNT: Represents an error count for a given functions instance. Only applicable to functions components.
- FUNCTIONS_GB_RATE_PER_SECOND: Represents the rate of memory consumption (GB x seconds) for functions. Only applicable to functions components.



disabled

Boolean. Determines whether or not the alert is disabled.

operator

String. Can be GREATER_THAN, or LESS_THAN

value



Number. The meaning is dependent upon the rule. It is used in conjunction with the operator and window to determine when an alert should trigger.

window

String. Can be FIVE_MINUTES, TEN_MINUTES, THIRTY_MINUTES, or ONE_HOUR

log_destinations (array)

Array of Objects. A list of configured log forwarding destinations.

- name

String. Name of the log destination.

Minimum length: 2. Maximum length: 42.

Must comply with the following regular expression: ^[A-Za-z0-9()\\[\\]\""][-A-Za-z0-9_, \\/()\\[\\]]{0,40}[A-Za-z0-9()\\[\\]\""]\$

papertrail

Object. Papertrail configuration.

endpoint

String. Papertrail syslog endpoint.

datadog

Object. Datadog configuration.

endpoint

String. Datadog HTTP log intake endpoint.

api_key

String. Datadog API key.

logtail

Object. Logtail configuration.

token

String. Logtail token.

open_search

Object. OpenSearch configuration.

endpoint

String. OpenSearch API Endpoint. Only HTTPS is supported. Format: https://. Cannot be specified if cluster_name is also specified.

basic_auth

Object.

user

String. Username to authenticate with. Only required when endpoint is set. Defaults to `admin` when cluster_name is set.

password

String. Password for user defined in User. Is required when endpoint is set. Cannot be set if using a DigitalOcean DBaaS OpenSearch cluster.

index_name

String. The index name to use for the logs. If not set, the default index name is "logs".

cluster_name

String. The name of a DigitalOcean DBaaS OpenSearch cluster to use as a log forwarding destination. Cannot be specified if endpoint is also specified.

cors

Object. (Deprecated, see `ingress > rules > cors`) A Cross-Origin Resource Sharing policy (CORS).

allow_origins (array)

Array of Objects. The set of allowed CORS origins. This configures the Access-Control-Allow-Origin header.

- exact

String. Exact string match. Only 1 of exact, prefix, or regex must be set.

Minimum length: 1. Maximum length: 256

regex

String. RE2 style regex-based match. Only 1 of exact, prefix, or regex must be set. For more information about RE2 syntax, see: <https://github.com/google/re2/wiki/Syntax>

Minimum length: 1. Maximum length: 256

allow_methods (array)

Array of Strings. The set of allowed HTTP methods. This configures the Access-Control-Allow-Methods header.

allow_headers (array)

Array of Strings. The set of allowed HTTP request headers. This configures the Access-Control-Allow-Headers header.

expose_headers (array)

Array of Strings. The set of HTTP response headers that browsers are allowed to access. This configures the Access-Control-Expose-Headers header.

max_age

String. An optional duration specifying how long browsers can cache the results of a preflight request. This configures the Access-Control-Max-Age header. Example: 5h30m.

allow_credentials

Boolean. Whether browsers should expose the response to the client-side JavaScript code when the request's credentials mode is include. This configures the Access-Control-Allow-Credentials header.

databases (array)

Array of Objects. Database instances which can provide persistence to workloads within the application.

- name

String. The database's name. The name must be unique across all components within the same app and cannot use capital letters.

Minimum length: 2. Maximum length: 32.

Must comply with the following regular expression: ^[a-z][a-z0-9-]{0,30}[a-z0-9]\$

engine

String. The database engine to use

- MYSQL: MySQL
- PG: PostgreSQL
- REDIS: Redis
- MONGODB: MongoDB
- KAFKA: Kafka
- OPENSEARCH: OpenSearch

version

String. The version of the database engine

production

Boolean. Whether this is a production or dev database.

cluster_name

String. The name of the underlying DigitalOcean DBaaS cluster. This is required for production databases. For dev databases, if cluster_name is not set, a new cluster will be provisioned.

db_name

String. The name of the MySQL or PostgreSQL database to configure.

db_user

String. The name of the MySQL or PostgreSQL user to configure.

domains (array)

Array of Objects. A set of hostnames where the application will be available.

- domain

String. The hostname for the domain

Minimum length: 4. Maximum length: 253.

Must comply with the following regular expression: ^([a-zA-Z0-9]+(-+[a-zA-Z0-9]+)*\.)+(xn--)?[a-zA-Z0-9]{2,}\.\?\$



type

String. The domain type, which can be one of the following:

- **DEFAULT**: The default `.ondigitalocean.app` domain assigned to this app
- **PRIMARY**: The primary domain for this app that is displayed as the default in the control panel, used in bindable environment variables, and any other places that reference an app's live URL. Only one domain may be set as primary.
- **ALIAS**: A non-primary domain

wildcard

Boolean. Indicates whether the domain includes all sub-domains, in addition to the given domain

zone

String. Optional. If the domain uses DigitalOcean DNS and you would like App Platform to automatically manage it for you, set this to the name of the domain on your account.

For example, If the domain you are adding is `app.domain.com`, the zone could be `domain.com`.

minimum_tls_version

String. Optional. The minimum version of TLS a client application can use to access resources for the domain.

Must be one of the following values wrapped within quotations: "1.2" or "1.3".



region

String. The slug form of the geographical origin of the app. Default: `nearest_available`



envs (array)

Array of Objects. A list of environment variables made available to all components in the app.

- key

String. The name

Must comply with the following regular expression: `^[_A-Za-z][_A-Za-z0-9]*$`

value

String. The value. If the type is `SECRET`, the value will be encrypted on first submission. On following submissions, the encrypted value should be used.

scope

String. The visibility scope

- **RUN_TIME**: Made available only at run-time
- **BUILD_TIME**: Made available only at build-time
- **RUN_AND_BUILD_TIME**: Made available at both build and run-time

type

String. The type

- **GENERAL**: A plain-text environment variable
- **SECRET**: A secret encrypted environment variable



alerts (array)

Array of Objects. A list of alerts which apply to the app.



- rule

String. The specific type of alert.

- **CPU_UTILIZATION**: Represents CPU for a given container instance. Only applicable at the component level.
- **MEM_UTILIZATION**: Represents RAM for a given container instance. Only applicable at the component level.
- **RESTART_COUNT**: Represents restart count for a given container instance. Only applicable at the component level.
- **DEPLOYMENT_FAILED**: Represents whether a deployment has failed. Only applicable at the app level.
- **DEPLOYMENT_LIVE**: Represents whether a deployment has succeeded. Only applicable at the app level.
- **DEPLOYMENT_STARTED**: Represents whether a deployment has started. Only applicable at the app level.
- **DEPLOYMENT_CANCELED**: Represents whether a deployment has been canceled. Only applicable at the app level.
- **DOMAIN_FAILED**: Represents whether a domain configuration has failed. Only applicable at the app level.
- **DOMAIN_LIVE**: Represents whether a domain configuration has succeeded. Only applicable at the app level.
- **FUNCTIONS_ACTIVATION_COUNT**: Represents an activation count for a given functions instance. Only applicable to functions components.
- **FUNCTIONS_AVERAGE_DURATION_MS**: Represents the average duration for function runtimes. Only applicable to functions components.
- **FUNCTIONS_ERROR_RATE_PER_MINUTE**: Represents an error rate per minute for a given functions instance. Only applicable to functions components.
- **FUNCTIONS_AVERAGE_WAIT_TIME_MS**: Represents the average wait time for functions. Only applicable to functions components.
- **FUNCTIONS_ERROR_COUNT**: Represents an error count for a given functions instance. Only applicable to functions components.



components.

- FUNCTIONS_GB_RATE_PER_SECOND: Represents the rate of memory consumption (GB x seconds) for functions.
Only applicable to functions components.

disabled

Boolean. Determines whether or not the alert is disabled.

operator

String. Can be GREATER_THAN, or LESS_THAN

value

Number. The meaning is dependent upon the rule. It is used in conjunction with the operator and window to determine when an alert should trigger.

window

String. Can be FIVE_MINUTES, TEN_MINUTES, THIRTY_MINUTES, or ONE_HOUR

ingress

Object. Specification for component routing, rewrites, and redirects.

rules (array)

Array of Objects. Rules for configuring HTTP ingress for component routes, CORS, rewrites, and redirects.

- match

Object. The match configuration for the rule

path

Object. The path to match on.

prefix

String. Prefix-based match. For example, /api will match /api, /api/, and any nested paths such as /api/v1/endpoint.

Maximum length: 256

component

Object. The component to route to. Only one of component or redirect may be set.

name

String. The name of the component to route to.

preserve_path_prefix

Boolean. An optional flag to preserve the path that is forwarded to the backend service. By default, the HTTP request path will be trimmed from the left when forwarded to the component. For example, a component with path=/api will have requests to /api/list trimmed to /list. If this value is true, the path will remain /api/list. Note: this is not applicable for Functions Components and is mutually exclusive with rewrite.

rewrite

String. An optional field that will rewrite the path of the component to be what is specified here. By default, the HTTP request path will be trimmed from the left when forwarded to the component. For example, a component with path=/api will have requests to /api/list trimmed to /list. If you specified the rewrite to be /v1/, requests to /api/list would be rewritten to /v1/list. Note: this is mutually exclusive with preserve_path_prefix.

redirect

Object. The redirect configuration for the rule. Only one of component or redirect may be set.

uri

String. An optional URI path to redirect to. Note: if this is specified the whole URI of the original request will be overwritten to this value, irrespective of the original request URI being matched.

authority

String. The authority/host to redirect to. This can be a hostname or IP address. Note: use port to set the port.

port

Integer. The port to redirect to.

scheme

String. The scheme to redirect to. Supported values are http or https. Default: https.

redirect_code

Integer. The redirect code to use. Defaults to 302. Supported values are 300, 301, 302, 303, 304, 307, 308.



cors

Object. The CORS configuration for the rule.



allow_origins (array)

Array of Objects. The set of allowed CORS origins. This configures the Access-Control-Allow-Origin header.

- exact

String. Exact string match. Only 1 of exact, prefix, or regex must be set.

Minimum length: 1. Maximum length: 256



regex

String. RE2 style regex-based match. Only 1 of exact, prefix, or regex must be set. For more information about RE2 syntax, see: <https://github.com/google/re2/wiki/Syntax>

Minimum length: 1. Maximum length: 256



allow_methods (array)

Array of Strings. The set of allowed HTTP methods. This configures the Access-Control-Allow-Methods header.



allow_headers (array)

Array of Strings. The set of allowed HTTP request headers. This configures the Access-Control-Allow-Headers header.



expose_headers (array)

Array of Strings. The set of HTTP response headers that browsers are allowed to access. This configures the Access-Control-Expose-Headers header.



max_age

String. An optional duration specifying how long browsers can cache the results of a preflight request. This configures the Access-Control-Max-Age header. Example: 5h30m.



allow_credentials

Boolean. Whether browsers should expose the response to the client-side JavaScript code when the request's credentials mode is include. This configures the Access-Control-Allow-Credentials header.



maintenance

Object. The maintenance configuration for the app.



enabled

Boolean. Set to true to enable maintenance mode. When enabled, all traffic to the app receives a maintenance message. Defaults to false.

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X
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