

Package ‘starburst’

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Type Package

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Description A 'future' backend that enables seamless execution of parallel R workloads on 'Amazon Web Services' ('AWS', <<https://aws.amazon.com>>), including 'EC2' and 'Fargate'. 'starburst' handles environment synchronization, data transfer, quota management, and worker orchestration automatically, allowing users to scale from local execution to 100+ cloud workers with a single line of code change.

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future.starburst	<i>Create a Future using Starburst Backend</i>
------------------	--

Description

This is the entry point called by the Future package when a plan(starburst) is active

Usage

```
## S3 method for class 'starburst'
future(
  expr,
  envir = parent.frame(),
  substitute = TRUE,
```

```

    lazy = FALSE,
    seed = FALSE,
    globals = TRUE,
    packages = NULL,
    stdout = TRUE,
    conditions = "condition",
    label = NULL,
    ...
  )

```

Arguments

expr	Expression to evaluate
envir	Environment for evaluation
substitute	Whether to substitute the expression
lazy	Whether to lazily evaluate (always FALSE for remote)
seed	Random seed
globals	Globals to export (TRUE for auto-detection, list for manual)
packages	Packages to load
stdout	Whether to capture stdout (TRUE, FALSE, or NA)
conditions	Character vector of condition classes to capture
label	Optional label for the future
...	Additional arguments

Value

A StarburstFuture object

launchFuture.StarburstBackend

Launch a future on the Starburst backend

Description

Launch a future on the Starburst backend

Usage

```

## S3 method for class 'StarburstBackend'
launchFuture(backend, future, ...)

```

Arguments

backend	A StarburstBackend object
future	The future object to launch
...	Additional arguments

Value

The future object (invisibly)

`listFutures.StarburstBackend`

List futures for StarburstBackend

Description

List futures for StarburstBackend

Usage

```
## S3 method for class 'StarburstBackend'  
listFutures(backend, ...)
```

Arguments

<code>backend</code>	A StarburstBackend object
<code>...</code>	Additional arguments

Value

List of futures (empty for this backend)

`nbrOfWorkers.StarburstBackend`

Number of workers for StarburstBackend

Description

Number of workers for StarburstBackend

Usage

```
## S3 method for class 'StarburstBackend'  
nbrOfWorkers(evaluator)
```

Arguments

<code>evaluator</code>	A StarburstBackend object
------------------------	---------------------------

Value

Number of workers

plan.starburst	<i>staRburst Future Backend</i>
----------------	---------------------------------

Description

A future backend for running parallel R workloads on AWS (EC2 or Fargate)

Usage

```
## S3 method for class 'starburst'
plan(
  strategy,
  workers = 10,
  cpu = 4,
  memory = "8GB",
  region = NULL,
  timeout = 3600,
  auto_quota_request = interactive(),
  launch_type = "EC2",
  instance_type = "c7g.xlarge",
  use_spot = TRUE,
  warm_pool_timeout = 3600,
  detached = FALSE,
  ...
)
```

Arguments

strategy	The starburst strategy marker (ignored, for S3 dispatch)
workers	Number of parallel workers
cpu	vCPUs per worker (1, 2, 4, 8, or 16)
memory	Memory per worker (supports GB notation, e.g., "8GB")
region	AWS region (default: from config or "us-east-1")
timeout	Maximum runtime in seconds (default: 3600)
auto_quota_request	Automatically request quota increases (default: interactive())
launch_type	Launch type: EC2 or FARGATE (default: EC2)
instance_type	EC2 instance type when using EC2 launch type (default: c7g.xlarge)
use_spot	Use EC2 Spot instances for cost savings (default: TRUE)
warm_pool_timeout	Timeout for warm pool in seconds (default: 3600)
detached	Use detached session mode (deprecated, use starburst_session instead)
...	Additional arguments passed to future backend

Value

A future plan object

Examples

```
if (starburst_is_configured()) {
  future::plan(starburst, workers = 50)
  results <- future.apply::future_lapply(1:100, function(i) i^2)
}
```

```
print.StarburstSessionStatus
```

Print method for session status

Description

Print method for session status

Usage

```
## S3 method for class 'StarburstSessionStatus'
print(x, ...)
```

Arguments

x	A StarburstSessionStatus object
...	Additional arguments (ignored)

Value

Invisibly returns x.

```
resolved.StarburstFuture
```

Check if StarburstFuture is Resolved

Description

Checks whether the future task has completed execution

Usage

```
## S3 method for class 'StarburstFuture'
resolved(x, ...)
```

Arguments

x	A StarburstFuture object
...	Additional arguments

Value

Logical indicating if the future is resolved

`result.StarburstFuture`*Get Result from StarburstFuture*

Description

Retrieves the result from a resolved future

Usage

```
## S3 method for class 'StarburstFuture'
result(future, ...)
```

Arguments

future	A StarburstFuture object
...	Additional arguments

Value

A FutureResult object

`run.StarburstFuture`*Run a StarburstFuture*

Description

Submits the future task to AWS for execution (EC2 by default, or Fargate)

Usage

```
## S3 method for class 'StarburstFuture'
run(future, ...)
```

Arguments

future	A StarburstFuture object
...	Additional arguments

Value

The future object (invisibly)

session-api	<i>Detached Session API</i>
-------------	-----------------------------

Description

User-facing API for creating and managing detached sessions

starburst	<i>Starburst strategy marker</i>
-----------	----------------------------------

Description

This function should never be called directly. Use `plan(starburst, ...)` instead.

Usage

`starburst(...)`

Arguments

`...` Arguments passed to `StarburstBackend()`

Value

Does not return a value; always signals an error if called directly. This object exists as a strategy marker for [plan](#).

StarburstBackend	<i>Starburst Future Backend</i>
------------------	---------------------------------

Description

A future backend for running parallel R workloads on AWS ECS

Usage

```
StarburstBackend(  
  workers = 10,  
  cpu = 4,  
  memory = "8GB",  
  region = NULL,  
  timeout = 3600,  
  launch_type = "EC2",  
  instance_type = "c6a.large",  
  use_spot = FALSE,  
  warm_pool_timeout = 3600,  
  ...  
)
```

Arguments

workers	Number of parallel workers
cpu	vCPUs per worker (1, 2, 4, 8, or 16)
memory	Memory per worker (supports GB notation, e.g., "8GB")
region	AWS region (default: from config or "us-east-1")
timeout	Maximum runtime in seconds (default: 3600)
launch_type	"EC2" or "FARGATE" (default: "EC2")
instance_type	EC2 instance type (e.g., "c6a.large")
use_spot	Use spot instances (default: FALSE)
warm_pool_timeout	Pool timeout in seconds (default: 3600)
...	Additional arguments

Value

A StarburstBackend object

starburst_check_quota_request
Monitor quota increase request

Description

Monitor quota increase request

Usage

```
starburst_check_quota_request(case_id, region = NULL)
```

Arguments

case_id	Case ID from quota increase request
region	AWS region

Value

Invisibly returns the quota request details, or NULL on error.

Examples

```
if (starburst_is_configured()) {  
  starburst_check_quota_request("case-12345")  
}
```

starburst_cleanup_ecr *Clean up starburst ECR images*

Description

Manually delete Docker images from ECR to save storage costs. Images will be rebuilt on next use (adds 3-5 min delay).

Usage

```
starburst_cleanup_ecr(force = FALSE, region = NULL)
```

Arguments

force	Delete all images immediately, ignoring TTL
region	AWS region (default: from config)

Value

Invisibly returns TRUE on success or FALSE if not configured.

Examples

```
if (starburst_is_configured()) {
  # Delete images past TTL
  starburst_cleanup_ecr()

  # Delete all images immediately (save $0.50/month)
  starburst_cleanup_ecr(force = TRUE)
}
```

starburst_cluster	<i>Create a Starburst Cluster</i>
-------------------	-----------------------------------

Description

Creates a cluster object for managing AWS workers (EC2 by default, or Fargate) using the staRburst Future backend.

Usage

```
starburst_cluster(
  workers = 10,
  cpu = 4,
  memory = "8GB",
  region = NULL,
  timeout = 3600,
  launch_type = "EC2",
  instance_type = "c7g.xlarge",
  use_spot = TRUE
)
```

Arguments

workers	Number of parallel workers
cpu	CPU units per worker
memory	Memory per worker
region	AWS region
timeout	Maximum runtime in seconds
launch_type	Compute backend: "EC2" (default) or "FARGATE"
instance_type	EC2 instance type when launch_type = "EC2" (default: "c7g.xlarge"). Worker CPU architecture follows the instance type (Graviton *g.* = ARM64, Intel/AMD = x86_64); there is no separate platform argument.
use_spot	Use EC2 Spot instances for cost savings (default: TRUE)

Value

A starburst_cluster object

Examples

```
if (starburst_is_configured()) {
  cluster <- starburst_cluster(workers = 20)
  results <- cluster$map(data, function(x) x * 2)

  # Fargate backend instead of the EC2 default
  fg <- starburst_cluster(workers = 20, launch_type = "FARGATE")
}
```

starburst_config	<i>Configure staRburst options</i>
------------------	------------------------------------

Description

Reads and updates the persisted staRburst configuration. Call with no arguments to leave settings unchanged (it still returns the current config invisibly); pass one or more of the arguments below to update them.

Usage

```
starburst_config(
  max_hourly_cost = NULL,
  cost_alert_threshold = NULL,
  auto_cleanup_s3 = NULL,
  ...
)
```

Arguments

max_hourly_cost	Maximum estimated hourly cost (USD/hour) for a job. Jobs whose estimated hourly rate exceeds this error before launching. This is a rate limit, not a total-job-cost cap. NULL leaves it unchanged.
cost_alert_threshold	Estimated hourly cost (USD/hour) at which a warning is emitted. NULL leaves it unchanged.
auto_cleanup_s3	Logical; automatically delete a job's S3 task/result objects after completion. NULL leaves it unchanged.
...	Additional user-settable keys merged into the config. Recognized keys: use_public_base Logical; pull the public base image instead of building a private one (see starburst_setup).

ecr_image_ttl_days Integer; lifecycle age at which cached ECR images are expired.

Details

Other keys in the stored config are **infrastructure-managed** — written by [starburst_setup/starburst_setup_ec2](#) and not intended to be set by hand: region, bucket, cluster, ecr_repository, aws_account_id, execution_role_arn, task_role_arn, subnets, and security_groups. Use [starburst_status](#) to inspect the effective configuration read-only.

Value

Invisibly returns the updated configuration list.

See Also

[starburst_status](#) to view config without changing it; [starburst_setup](#) for initial provisioning.

Examples

```
if (starburst_is_configured()) {
  # Update cost guardrails (both are hourly rates, USD/hour)
  starburst_config(
    max_hourly_cost = 10,
    cost_alert_threshold = 5
  )

  # Read the current config without changing anything
  cfg <- starburst_config()
}
```

starburst_estimate	<i>Estimate Cloud Performance and Cost</i>
--------------------	--

Description

Runs a small sample of tasks locally to estimate cloud execution time and cost. Provides informed prediction before spending money on cloud execution.

Usage

```
starburst_estimate(
  .x,
  .f,
  workers = 10,
  cpu = 2,
  memory = "8GB",
  platform = "X86_64",
```

```

    sample_size = 10,
    region = NULL,
    ...
  )

```

Arguments

<code>.x</code>	A vector or list to iterate over
<code>.f</code>	A function to apply to each element
<code>workers</code>	Number of parallel workers to estimate for
<code>cpu</code>	CPU units per worker (1, 2, 4, 8, or 16)
<code>memory</code>	Memory per worker (e.g., "8GB")
<code>platform</code>	CPU architecture: "X86_64" (default) or "ARM64" (Graviton3)
<code>sample_size</code>	Number of items to run locally for estimation (default: 10)
<code>region</code>	AWS region
<code>...</code>	Additional arguments passed to <code>.f</code>

Value

Invisible list with estimates, prints summary to console

Examples

```

if (starburst_is_configured()) {
  # Estimate before running
  starburst_estimate(1:1000, expensive_function, workers = 50)

  # Then decide whether to proceed
  results <- starburst_map(1:1000, expensive_function, workers = 50)
}

```

```
starburst_is_configured
```

Check if staRburst is configured

Description

Returns TRUE if `starburst_setup()` has been run, the configuration file exists, and AWS credentials are available. Useful for guarding example code that requires AWS credentials.

Usage

```
starburst_is_configured()
```

Value

TRUE if configured and credentials are available, FALSE otherwise.

Examples

```
starburst_is_configured()
```

```
starburst_list_sessions
```

List All Sessions

Description

List all detached sessions in S3

Usage

```
starburst_list_sessions(region = NULL)
```

Arguments

region AWS region (default: from config)

Value

Data frame with session information

Examples

```
if (starburst_is_configured()) {  
  sessions <- starburst_list_sessions()  
  print(sessions)  
}
```

```
starburst_logs
```

View worker logs

Description

View worker logs

Usage

```
starburst_logs(task_id = NULL, cluster_id = NULL, last_n = 50, region = NULL)
```

Arguments

<code>task_id</code>	Optional task ID to view logs for specific task
<code>cluster_id</code>	Optional cluster ID to view logs for specific cluster
<code>last_n</code>	Number of last log lines to show (default: 50)
<code>region</code>	AWS region (default: from config)

Value

Invisibly returns the list of log events, or NULL if no events were found.

Examples

```
if (starburst_is_configured()) {
  # View recent logs
  starburst_logs()

  # View logs for specific task
  starburst_logs(task_id = "abc-123")

  # View last 100 lines
  starburst_logs(last_n = 100)
}
```

starburst_map

Map a Function Over Data on AWS Workers

Description

Parallel map function that executes across AWS workers (EC2 by default, or Fargate) using the `starburst` Future backend.

Usage

```
starburst_map(
  .x,
  .f,
  workers = 10,
  cpu = 4,
  memory = "8GB",
  region = NULL,
  timeout = 3600,
  launch_type = "EC2",
  instance_type = "c7g.xlarge",
  use_spot = TRUE,
  .progress = TRUE,
  ...
)
```

Arguments

<code>.x</code>	A vector or list to iterate over
<code>.f</code>	A function to apply to each element
<code>workers</code>	Number of parallel workers (default: 10)
<code>cpu</code>	CPU units per worker (1, 2, 4, 8, or 16)
<code>memory</code>	Memory per worker (e.g., 8GB)
<code>region</code>	AWS region
<code>timeout</code>	Maximum runtime in seconds per task
<code>launch_type</code>	Compute backend: "EC2" (default) or "FARGATE"
<code>instance_type</code>	EC2 instance type when <code>launch_type = "EC2"</code> (default: "c7g.xlarge"). The worker CPU architecture follows the instance type — Graviton types (e.g. c7g.*) run ARM64, Intel/AMD types (e.g. c7i.*) run x86_64 — so there is no separate platform argument.
<code>use_spot</code>	Use EC2 Spot instances for cost savings (default: TRUE)
<code>.progress</code>	Show progress bar (default: TRUE)
<code>...</code>	Additional arguments passed to <code>.f</code>

Value

A list of results, one per element of `.x`

Examples

```
if (starburst_is_configured()) {
  # Simple parallel computation
  results <- starburst_map(1:100, function(x) x^2, workers = 10)

  # With custom configuration
  results <- starburst_map(
    data_list,
    expensive_function,
    workers = 50,
    cpu = 4,
    memory = "8GB"
  )

  # Use the Fargate backend instead of the EC2 default
  results <- starburst_map(1:100, function(x) x^2,
                           workers = 10, launch_type = "FARGATE")
}
```

`starburst_quota_status`*Show quota status*

Description

Show quota status

Usage

```
starburst_quota_status(region = NULL)
```

Arguments

region AWS region (default: from config)

Value

Invisibly returns a list with quota information including current limit, usage, and any pending requests.

Examples

```
if (starburst_is_configured()) {  
  starburst_quota_status()  
}
```

`starburst_rebuild_environment`*Rebuild environment image*

Description

Rebuild environment image

Usage

```
starburst_rebuild_environment(region = NULL, force = FALSE)
```

Arguments

region AWS region (default: from config)
force Force rebuild even if current environment hasn't changed

Value

Invisibly returns NULL. Called for its side effect of rebuilding and pushing the Docker environment image.

Examples

```
if (starburst_is_configured()) {  
    starburst_rebuild_environment()  
}
```

starburst_request_quota_increase

Request quota increase (user-facing)

Description

Request quota increase (user-facing)

Usage

```
starburst_request_quota_increase(vcpus = 500, region = NULL)
```

Arguments

vcpus	Desired vCPU quota
region	AWS region (default: from config)

Value

Invisibly returns TRUE if the increase was requested, FALSE if already sufficient or cancelled.

Examples

```
if (starburst_is_configured()) {  
    starburst_request_quota_increase(vcpus = 500)  
}
```

starburst_session	<i>Create a Detached Starburst Session</i>
-------------------	--

Description

Creates a new detached session that can run computations independently of your R session. You can close R and reattach later to collect results.

Usage

```
starburst_session(
  workers = 10,
  cpu = 4,
  memory = "8GB",
  region = NULL,
  timeout = 3600,
  session_timeout = 3600,
  absolute_timeout = 86400,
  launch_type = "EC2",
  instance_type = "c7g.xlarge",
  use_spot = TRUE,
  warm_pool_timeout = 3600
)
```

Arguments

workers	Number of parallel workers (default: 10)
cpu	vCPUs per worker (default: 4)
memory	Memory per worker, e.g., "8GB" (default: "8GB")
region	AWS region (default: from config or "us-east-1")
timeout	Task timeout in seconds (default: 3600)
session_timeout	Active timeout in seconds (default: 3600)
absolute_timeout	Maximum session lifetime in seconds (default: 86400)
launch_type	"EC2" or "FARGATE" (default: "EC2")
instance_type	EC2 instance type for EC2 launch (default: "c7g.xlarge")
use_spot	Use spot instances for EC2 (default: TRUE)
warm_pool_timeout	EC2 warm pool timeout in seconds (default: 3600)

Value

A StarburstSession object (also carrying `$session_id`, the handle you pass to [starburst_session_attach](#)) with methods:

`submit(expr, globals = NULL, packages = NULL)` Submit one task (a quoted expression). Returns the task id. Call repeatedly to fan out work.

`status()` Return a progress summary (counts of pending / running / completed / failed tasks). Safe to call from a fresh R session after reattaching.

`collect(wait = FALSE)` Retrieve results, keyed by task id, in submission order. With `wait = FALSE` returns whatever has finished so far; `wait = TRUE` blocks until every submitted task is terminal. Every terminal task appears: a success carries its return value; a **failed** task carries a structured failure list (`error = TRUE`, `message = ...`, `value = NULL`, `task_id = ...`) so failures are visible rather than silently dropped.

`extend(seconds = 3600)` Extend the active/absolute timeout of a still-running session.

`cleanup(stop_workers = TRUE, force = FALSE)` Stop the session's workers and mark it terminated. By default **S3 objects are preserved** (so you can still inspect/collect); pass `force = TRUE` to also delete the session's S3 task/result objects. Otherwise the session self-terminates at `absolute_timeout`.

Lifecycle

`starburst_session()` launches workers immediately and returns a handle. Submit tasks, then either poll `status()/collect()` in the same session, or record `session$session_id`, close R, and later [starburst_session_attach\(session_id\)](#) to reconnect and collect. A session ends when you call `cleanup()`, when `session_timeout` elapses with no activity, or at `absolute_timeout` — whichever comes first.

Failure behavior

A failed task is recorded (surfaced via `status()`) and does not abort the others; `collect()` returns it as a structured failure entry (`error = TRUE` with a message) alongside the successful results, rather than dropping it or raising. If the client dies, workers keep running against S3 until a timeout, which is what makes reattaching possible. `cleanup()` is the only thing that frees resources early — sessions do not auto-clean on garbage collection.

See Also

[starburst_session_attach](#), [starburst_list_sessions](#); [starburst_map](#) for ephemeral (non-detached) fan-out.

Examples

```
if (starburst_is_configured()) {
  # Create detached session
  session <- starburst_session(workers = 10)

  # Submit tasks
  task_ids <- lapply(1:100, function(i) {
    session$submit(quote(expensive_computation(i)))
  })
}
```

```
  })

  # Close R and come back later...
  session_id <- session$session_id

  # Reattach
  session <- starburst_session_attach(session_id)

  # Collect results
  results <- session$collect(wait = TRUE)
}
```

starburst_session_attach

Reattach to Existing Session

Description

Reattach to a previously created detached session

Usage

```
starburst_session_attach(session_id, region = NULL)
```

Arguments

session_id	Session identifier
region	AWS region (default: from config)

Value

A StarburstSession object

Examples

```
if (starburst_is_configured()) {
  session <- starburst_session_attach("session-abc123")
  status <- session$status()
  results <- session$collect()
}
```

starburst_setup	<i>Setup staRburst</i>
-----------------	------------------------

Description

One-time configuration to set up AWS resources for staRburst

Usage

```
starburst_setup(
  region = "us-east-1",
  force = FALSE,
  use_public_base = TRUE,
  ecr_image_ttl_days = NULL,
  build_image = TRUE,
  setup_ec2 = TRUE
)
```

Arguments

region	AWS region (default: "us-east-1")
force	Force re-setup even if already configured
use_public_base	Use public base Docker images (default: TRUE). Set to FALSE to build private base images in your ECR.
ecr_image_ttl_days	Number of days to keep Docker images in ECR (default: NULL = never delete). AWS will automatically delete images older than this many days. This prevents surprise costs if you stop using staRburst. Recommended: 30 days for regular users, 7 days for occasional users. When images are deleted, they will be rebuilt on next use (adds 3-5 min).
build_image	Build the worker environment image during setup (default: TRUE). Set to FALSE to provision AWS resources (S3/ECR/ECS/VPC), write config, and check quotas without triggering the multi-minute Docker image build. The image is then built lazily on first worker launch via <code>ensure_environment()</code> . Useful for CI / connectivity checks.
setup_ec2	Provision the EC2 capacity provider and Auto Scaling Group for the default instance type during setup (default: TRUE). This is what makes the default EC2 backend work out of the box — without it, the first <code>starburst_map()/plan(starburst)</code> run on EC2 would fail because no capacity provider exists. It creates infrastructure at <code>DesiredCapacity = 0</code> (no billable instances are launched during setup). Set to FALSE if you only use the Fargate backend, which needs no capacity provider. Provision additional instance types later with starburst_setup_ec2 .

Value

Invisibly returns the configuration list.

Examples

```

if (starburst_is_configured()) {
  # Default: keep images forever (~$0.50/month idle cost)
  starburst_setup()

  # Auto-delete images after 30 days (saves money if you stop using it)
  starburst_setup(ecr_image_ttl_days = 30)

  # Use private base images with 7-day cleanup
  starburst_setup(use_public_base = FALSE, ecr_image_ttl_days = 7)

  # Provision resources without building the image (fast; CI / connectivity checks)
  starburst_setup(build_image = FALSE)
}

```

starburst_setup_ec2	<i>Setup EC2 capacity providers for staRburst</i>
---------------------	---

Description

One-time setup for EC2 launch type. Creates IAM roles, instance profiles, and capacity providers for specified instance types.

Usage

```

starburst_setup_ec2(
  region = "us-east-1",
  instance_types = c("c7g.xlarge", "c7i.xlarge"),
  force = FALSE
)

```

Arguments

region	AWS region (default: "us-east-1")
instance_types	Character vector of instance types to setup (default: c("c7g.xlarge", "c7i.xlarge"))
force	Force re-setup even if already configured

Value

Invisibly returns TRUE on success or FALSE on failure or cancellation.

Examples

```
if (starburst_is_configured()) {
  # Setup with default instance types (Graviton and Intel)
  starburst_setup_ec2()

  # Setup with custom instance types
  starburst_setup_ec2(instance_types = c("c7g.2xlarge", "r7g.xlarge"))
}
```

starburst_status	Show staRburst status
------------------	-----------------------

Description

Show staRburst status

Usage

```
starburst_status()
```

Value

Invisibly returns a list with current configuration and quota information.

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