Paws

An R Package for
Amazon Web Services

Developed and Maintained by
David Kretch and Adam Banker

Disclaimer: Paws is an unofficial R SDK and is not a product
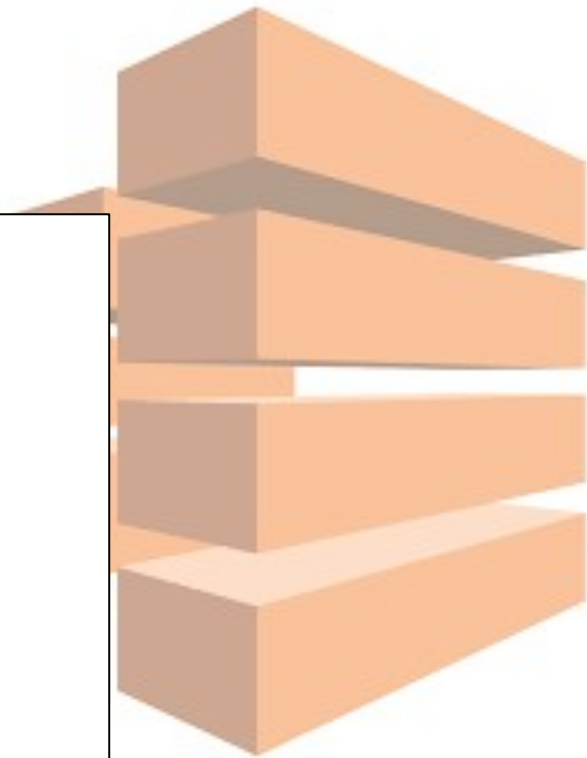of Amazon Web Services.

A full SDK written in R that supports

- Large scale computing
- Remote file storage
- Databases (SQL/NoSQL)
- Machine learning
- Speech-to-text
- Natural language processing
- Extract text from documents
- Mechanical Turk

- Queues
- Notifications
- Email
- Auto-scaling
- Functions-as-a-service
- Search
- Extract-transform-load
- etc.

Use Paws to Batch run a large model

```r
# Use the AWS Batch service
batch <- paws::batch()

# Submit a job.
batch$submit_job(
  jobDefinition = "LargeModel",
  jobName = "LargeModelJob",
  jobQueue = "LargeModelJobQueue"
)
```
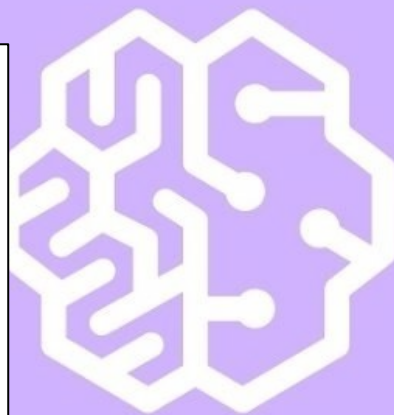
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Use Paws for natural language processing

```r
# Use the AWS Comprehend service
comprehend <- paws::comprehend()

# Determine the dominant language(s).
comprehend$detect_dominant_language(
 Text = "Hello world!"
)
```

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Use Paws to launch an EC2 instance

```r
# Use Elastic Compute Cloud (EC2)
ec2 <- paws::ec2()

# Start an EC2 instance.
ec2$run_instances(
 ImageId = "ami-f973ab84",
 InstanceType = "t2.micro",
 MinCount = 1,
 MaxCount = 1
)
```

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Use Paws to upload results to S3

```r
# Use Simple Storage Service (S3)
s3 <- paws::s3()


# Read the file as a raw binary
read_file <- file("results.rds", "rb")
s3_example <- readBin(read_file, "raw", n = file.size("results.rds"))
# Upload file to s3
s3$put_object(
 Body = s3_example, Bucket = "MyBucket", Key = "results.rds"
)
```

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Use Paws to notify you when your script finishes

```r
# Use Simple Notification Service (SNS)
sns <- paws::sns()

# Publish a message to the topic.
sns$publish(
 Message = "Script Complete!",
 TopicArn = "arn:aws:sns:..."
)
```

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Where To Find Out More

Install:
```
install.packages("paws")
```

Documentation:
https://paws-r.github.io

GitHub:
https://www.github.com/paws-r/paws