Tidal Capabilities for Amazon® Web Services

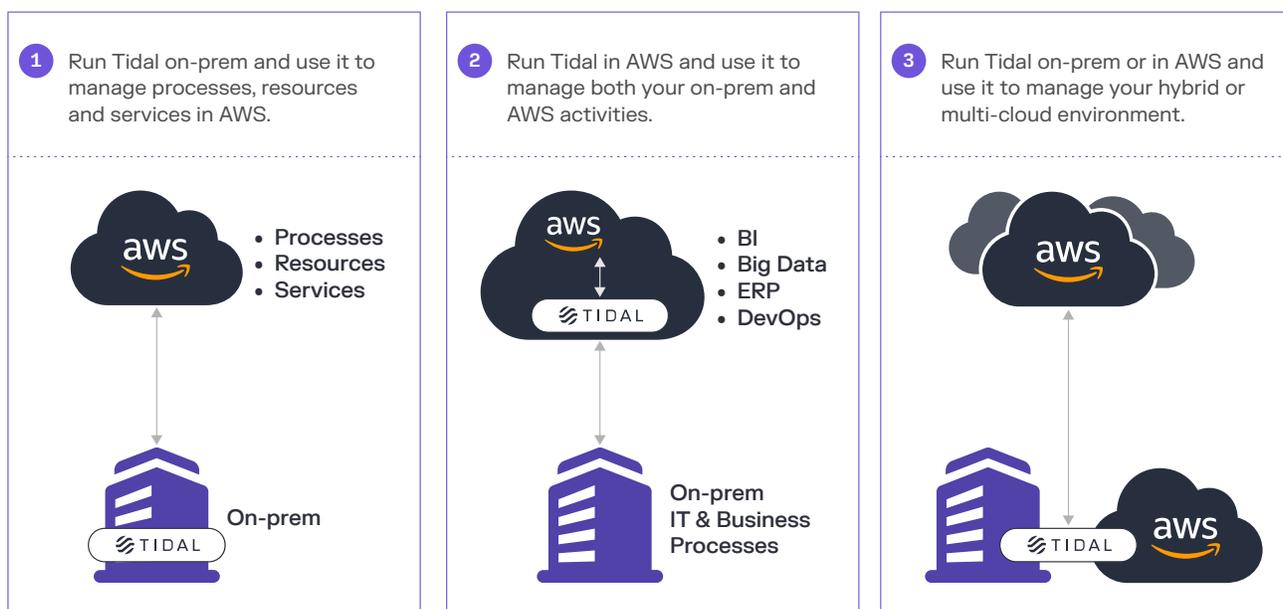PR891900 REGIONAL SALES D

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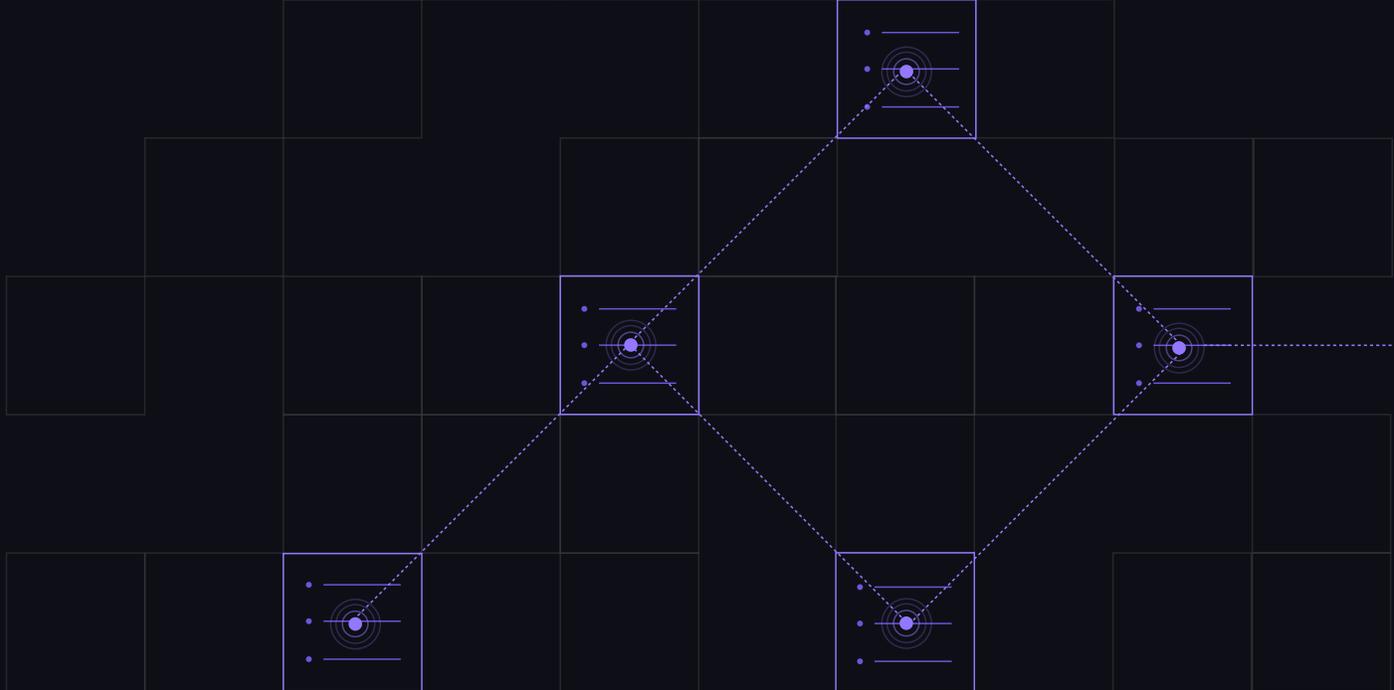
TIDAL

Going to the Cloud

Digital transformation initiatives are accelerating the adoption of cloud computing. Businesses of all sizes, geographies and industries are turning to the cloud as their defacto choice for deployment. The numerous benefits are driving many companies to adopt cloud-first or cloud-only policies.

Amazon Web Services (AWS) is a clear market leader and only continues to grow. That's why Tidal offers broad and deep support for AWS along with plenty of flexibility to fit into your particular environment.

Flexible Options for Tidal in Your AWS Environment

1 Run Tidal on-prem and use it to manage processes, resources and services in AWS.

- Processes
- Resources
- Services

On-prem

2 Run Tidal in AWS and use it to manage both your on-prem and AWS activities.

- BI
- Big Data
- ERP
- DevOps

On-prem
IT & Business
Processes

3 Run Tidal on-prem or in AWS and use it to manage your hybrid or multi-cloud environment.

You can also run Tidal with our SaaS offering and use Tidal to manage your AWS processes, resources and services as well as applications you're hosting in AWS.

Run Tidal in AWS

Tidal offers flexibility for being hosted on-prem, in the cloud or in hybrid environments. So naturally, Tidal can be hosted in AWS on Windows and Linux EC2 instances. Tidal can use your Oracle or Microsoft databases or your in-cloud AWS RDS Oracle 11g or AWS RDS MSSQL 2016 as its back-end database.

Whether you run Tidal in AWS, on-prem in your data center or with our SaaS model, there are several other ways to leverage Tidal capabilities for your AWS environment.

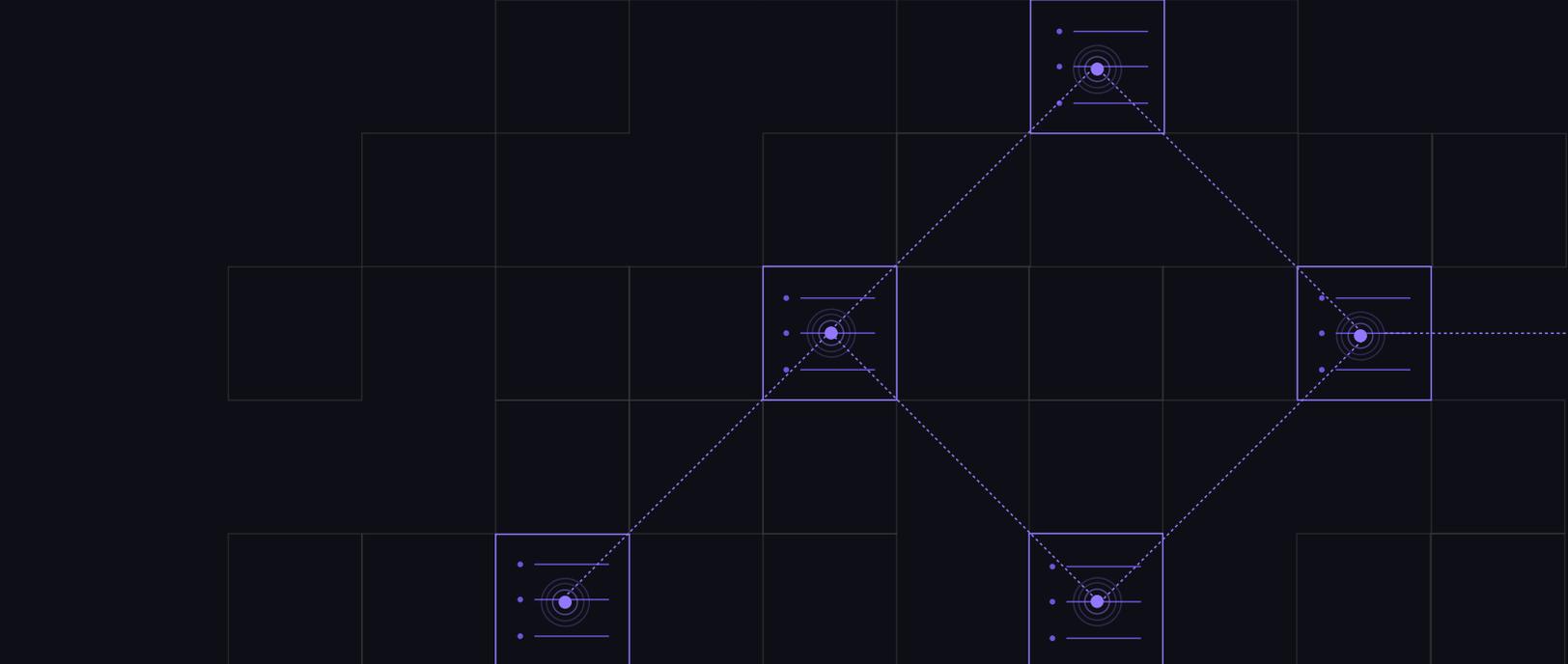# Centralize Management of AWS Tasks and Resources in Tidal

The native AWS scheduler (AWS Batch) manages batch jobs only within the boundaries of the AWS cloud. With the Tidal Automation Adapter for AWS, Tidal takes control of the tasks in the AWS scheduler enabling you to manage those tasks centrally within your cross-application business processes. Eliminate a siloed approach to business process management and increase visibility, control and efficiency.

This integration provides functionality found in the AWS scheduler, including execution of Lambda jobs. Plus, our solution offers more advanced functionality for AWS tasks to move beyond basic batch scheduling:

- Use time-and event-based scheduling
- Define scheduling dependencies for AWS and other processes
- Apply local, business and financial calendars to control when jobs run
- Leverage graphical views of schedules
- Centralize change management for schedules

Our adapter for AWS also supports your resource management efforts. Use Tidal jobs to control the consumption – and associated costs – of cloud instances:

- Start, monitor and stop AWS computing instances
- Copy Amazon Machine Images (AMIs) and Elastic Block Store (EBS) volumes

Integrate Tidal With AWS Services

In addition to managing AWS targets and resources, the Tidal adapter for AWS provides integration with popular AWS services to make it easier for your programs to utilize these capabilities. Tidal fits seamlessly into the AWS services that your processes are using. Our platform uses AWS identity management to access and work with:
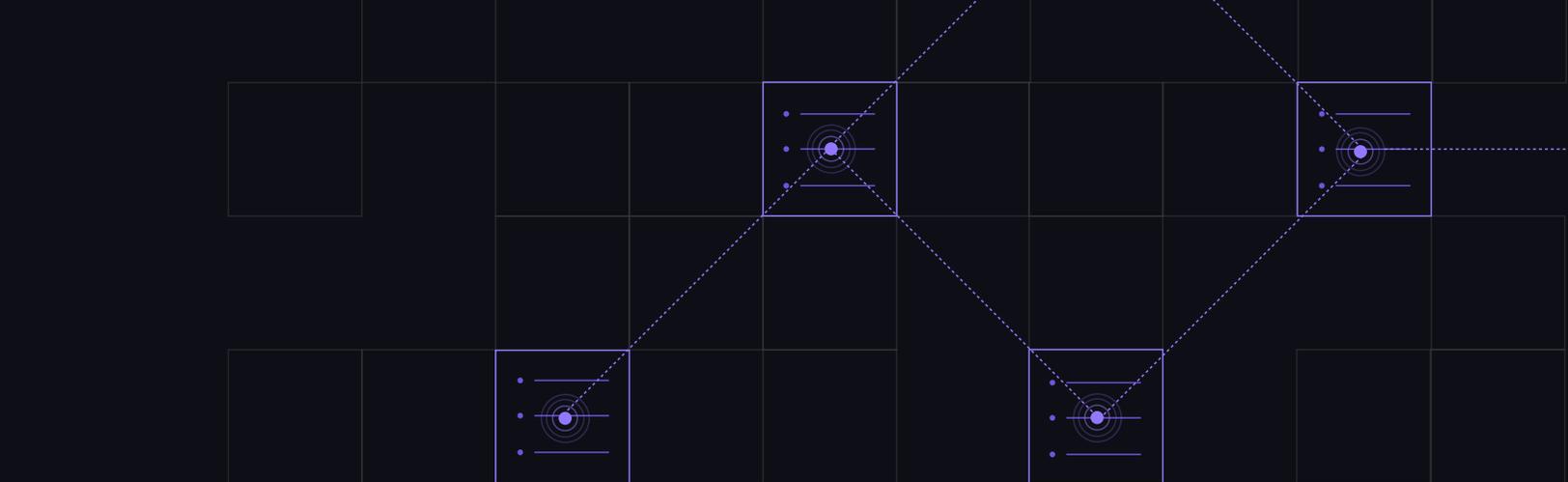
- AWS Work Mail
- Simple Email Service
- Simple Messaging Service
- Directory Services
- AWS Access Keys

Manage AWS S3 Endpoints

Much like the Tidal Automation Adapter for AWS, our adapter for S3 enables centralized management of S3 job scheduling in the Tidal platform. This adapter automates the execution of S3 tasks as part of Tidal's overall workload automation and applies more advanced scheduling functionality. You can easily manage S3 storage buckets as well as your processes for data objects.

- Create, update or delete buckets with Tidal jobs
- Run jobs to update, delete, copy and move objects from one bucket to another or within the same bucket
- Integrate with a Data Mover job to upload/download objects

Build Integrations for AWS With Tidal Automation Adapters

Tidal provides a rich developer toolkit and Tidal Automation Adapters that enable you to build integrations with your own AWS processes and applications.

- **ADAPTER FOR JMS** – This adapter is compatible with the AWS MQ structure and enables you to manage messaging from Tidal. Tidal Automation can start and stop messaging queues, and push and pull messages between your AWS applications and other queue-based applications and services.

- **ADAPTER FOR SSH** – Run commands against Windows and Linux AWS instances that are configured as SSH servers to receive and process OS commands, batch files and shell scripts.

- **ADAPTER FOR WEB SERVICES** – With this adapter, you can build web service interactions with the REST APIs of applications hosted in AWS.

Manage Scheduling for Applications in AWS

While Tidal is agnostic to where applications are running, our comprehensive set of pre-built, ready-to-run adapters provide compatibility for integrating prominent applications and middleware that are hosted in AWS, such as:

- Informatica® PowerCenter
- JDBC
- Microsoft® SQL
- Oracle® JD Edwards

- Oracle Database
- SAP® R/3 and S/4HANA ERP & Business Warehouse
- SAP BusinessObjects

Embed Tidal Agents in AWS Computing Instances

Use Tidal agents to control the activities of your computing instances and processes. Tidal Windows and Linux agents can be hosted in AWS instances to:

- Run OS commands, batch files and shell scripts
- Integrate with AWS auto-scaling to dynamically add or remove agents to address changing capacity needs

Easily automate and centrally manage workloads across your environment with Tidal.

Regardless of where you are in the process of AWS adoption or migration, Tidal's workload automation solutions bring end-to-end automation across your environment from a single, centralized point of control with robust scheduling functionality.

In addition to comprehensive support for AWS, Tidal offers compatibility for multi-cloud environments that include:

ORACLE®
Cloud Infrastructure

Google Cloud Platform

Microsoft Azure

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