




# cvent

**Cvent, Inc.** is a privately held [software-as-a-service](#) (SaaS) company that specializes in meetings, events, and hospitality management technology.

The company offers web-based software for meeting site selection, online event registration, [event management](#), [email marketing](#), and web surveys.

Cvent solutions optimise the entire event management value chain and have enabled clients around the world to manage millions of meetings and events.



# TEAM: MOBILE CLOUD

The mobile cloud is comprised of a suite of products which are used on-site at the events, and includes attendee mobile apps, registration check-in software, attendee badge printing, and more.

Products include:

- Onsite Solutions (OSS)
- CrowdCompass
- Cvent Event App (Falcon)

The Cvent logo is displayed on a large, light gray hexagonal background. The word "cvent" is written in a lowercase, sans-serif font. The letter "c" is blue, while the letters "vent" are black. To the left of the main hexagon, there are several smaller, overlapping hexagons in shades of gray and white, creating a geometric pattern.

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At CrowdCompass by Cvent, we create awesome [mobile event apps](#) that increase attendee engagement and produce a strong return on investment.

CrowdCompass is a mobile app for Attendees of meetings, conferences large and small.

Some features may include a schedule of sessions, maps of the venue, an attendee list, and more.

The app is highly customizable to allow for the content the planners want to be in the app.

The Cvent logo is displayed on a large, light gray hexagonal background. The letter 'c' is in a bright blue color, while the letters 'vent' are in black. To the left of the main hexagon, there are two smaller hexagons: one is a solid light gray, and the other is a white outline. The overall design is clean and modern.

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Cvent's leading-edge onsite solutions help you deliver efficient, engaging, and measurable onsite experiences, regardless of the size or complexity of your meeting or event.

Featuring check-in and badging, attendee tracking, lead capture, reporting and analytics, mobile event apps, and social amplification display.

Products include:

- OnArrival
- LeadCapture

# TOOLS

## DEV TOOLS:

- Stash/Bitbucket
- Postman
- SourceTree
- WebStorm
- RabbitMQ
- Swagger

## DATABASES:

- MS SQL Server(CORE products)
- PostgreSQL(CrowdCompass)
- Couchbase(N1QL)(OSS/Falcon)

## MONITORING:

- Splunk
- Datadog
- NewRelic
- Rollbar
- BrowserTools/Network log
- Charles Proxy



Stash delivers you a central, secure solution to create and manage distributed repositories, on your own servers.

Bitbucket provides workflows for all, from small nimble teams to the most highly regulated organizations.

Set guard rails to ensure consistency for each team's unique needs and release better software, faster.

Save time, boost visibility, and reduce project overhead with deep integrations with Jira Software and Bamboo.

Stash is focused on keeping developers productive and promoting familiar workflows.



POSTMAN

Postman is a collaboration platform for API development.

Postman's features simplify each step of building an API and streamline collaboration so you can create better APIs—faster.

Share your work in a dedicated workspace and invite your teammates to collaborate and give feedback in comments.

Use the collection runner in the Postman app to test a collection and view the results in real time.

Avoid running the same test by testing multiple instances of the same request with parameterization.

Create more robust and bug-resistant programs by increasing test coverage and frequency.

The RabbitMQ logo is displayed on a large, light gray hexagonal background. The logo consists of an orange icon of a rabbit's head and the text "RabbitMQ" in a sans-serif font, with "Rabbit" in orange and "MQ" in gray. There are several other smaller, light gray hexagons scattered around the main logo area.

RabbitMQ

RabbitMQ is the most widely deployed open source message broker.

It supports multiple messaging protocols.

RabbitMQ can be deployed in distributed and federated configurations to meet high-scale, high-availability requirements.

It is software where queues are defined, to which applications connect in order to transfer a message or messages.

They can be used to reduce loads and delivery times of web application servers by delegating tasks that would normally take up a lot of time or resources to a third party that has no other job.





WebStorm is a powerful IDE for modern JavaScript development. WebStorm provides full support for JavaScript, TypeScript, HTML, CSS as well as for frameworks such as React, Angular and Vue.js, no additional plugins are required.

WebStorm incorporates Google JsTestDriver. This is a time-saving tester for Javascript. It helps you increase code quality.

It is very efficient tool which supports server like Node.js , meteor and for mobile like ionic, cordova, react native. It also works well for Electron.

Run and debug tests with Karma, Mocha, Protractor, and Jest in WebStorm. Immediately see test statuses right in the editor, or in a handy treeview from which you can quickly jump to the test.

Use a simple unified UI to work with Git, GitHub, Mercurial, and other VCS. Commit files, review changes, and resolve conflicts with a visual diff/merge tool right in the IDE.



Swagger is an open-source software framework backed by a large ecosystem of tools that helps developers design, build, document, and consume RESTful web services.

Swagger is the largest framework for designing APIs using a common language and enabling the development across the whole API lifecycle, including documentation, design, testing, and deployment.

Swagger provides a set of great tools for designing APIs and improving the work with web services – Swagger Editor, Codegen, UI, Inspector

Swagger is easily adjustable and this makes swagger to gain popularity over other frameworks like RAML, APIBlueprint, Summation, etc



SourceTree simplifies how you interact with your Git repositories so you can focus on coding. Visualize and manage your repositories through SourceTree's simple Git GUI.

A free Mercurial and Git Client for Windows and Mac platforms. It provides a graphical interface for repositories, between users and Git, in which simplifies its use for beginners, who haven't mastered Git, and experts, who can be more productive focusing solely on the code.

SourceTree is completely free for any use. You must register SourceTree with a free Atlassian account

SourceTree has advanced features such as patch handling, rebase, shelve and cherry picking, branch management. It enables to connect to your repositories in Bitbucket, Stash, Microsoft TFS or GitHub



MS SQL is short for Microsoft SQL Server. It is a relational web hosting database that is used to store web site information like blog posts or user information. MS SQL is the most popular type of database on Windows servers.

An MS SQL database is capable of storing any type of data that you want. It will let you quickly store and retrieve information and multiple web site visitors can use it at one time.

In more technical terms, most versions of MS SQL have the following features: Buffer management, Logging and Transaction, Concurrency and locking, Replication services, Analysis services, Notification services, Integration services, Full text search service, Stored procedures, Triggers, Views, and Sub-SELECTs (i.e. nested SELECTs)

MS SQL also supports Transact- SQL (T-SQL), Tabular Data Stream, SQL Server Database Engine. It has the capacity to support a huge variety of transaction processing applications as well as business intelligence and analytics in corporate IT environments.



PostgreSQL is a powerful, open source object-relational database system that uses and extends the SQL language combined with many features that safely store and scale the most complicated data workloads.

PostgreSQL has earned a strong reputation for its proven architecture, reliability, data integrity, robust feature set, extensibility, and the dedication of the open source community behind the software to consistently deliver performant and innovative solutions

PostgreSQL supports standards such as ANSI SQL and SQL/MED (including foreign data wrappers for Oracle, MySQL, MongoDB and many others) and yet is highly extensible with support for over 12 procedural languages, GIN and GIST Indexes, Spatial data support, and multiple NoSQL like features for document (JSON) or key-value based applications.

PostgreSQL earns its reputation because of the extensive features such as Immunity to over-deployment, Cross platform, HSTORE, JSONB, Time window functions, PostGIS, etc.



Couchbase Server is an open source, distributed, NoSQL document-oriented engagement database

Couchbase exposes a fast key-value store with managed cache for sub-millisecond data operations, purpose-built indexers for fast queries and a powerful query engine for executing SQL-like queries.

Couchbase Server is specialized to provide low-latency data management for large-scale interactive web, mobile, and IoT applications.

Couchbase Server was designed to satisfy include: Unified Programming Interface, Query Search, Mobile and IoT Analytics, Core database engine, Scale-out architecture, Memory-first architecture, Big data and SQL integrations, Full-stack security, Container and Cloud deployments, etc.

N1QL (pronounced "nickel") is the Couchbase Server query language. N1QL embraces the JSON document model and uses SQL-like syntax. In N1QL, you operate on JSON documents, and the result of your operation is another JSON document.



Splunk is a software mainly used for searching, monitoring, and examining machine-generated Big Data through a web-style interface.

Splunk is an advanced, scalable, and effective technology that indexes and searches log files stored in a system. It analyzes the machine-generated data to provide operational intelligence.

The main advantage of using Splunk is that it does not need any database to store its data, as it extensively makes use of its indexes to store the data.

Splunk architecture includes Universal Forwarder, Load Balancer, Heavy Forwarder, Indexer, Search Head, Deployment Server and License Master

Splunk is the natural choice to convert machine data into operational intelligence. Splunk efficiently captures, indexes and correlates data from a searchable repository all in real-time and generates insightful graphs, reports, dashboards, and alerts.



Datadog is a monitoring service for cloud-scale applications, providing monitoring of servers, databases, tools, and services, through a SaaS-based data analytics platform

Datadog helps users streamline data analysis and other process related to it including measuring and graphing

The software comes pre-integrated with the third-party apps to allow seamless workflow regardless of the platform, language, and geographical positions.

The main benefits of Datadog are helping you observe apps, streamlining how you monitor stack apps and giving you full visibility over modern apps. It allows users to connect and compare metrics as well as other information from services and apps, together with data coming from web servers, Amazon EC2, NoSQL, StatsD, and SQL databases

Many datadog integrations are offered by the vendor such as docker, java, Nginx, Cassandra, new relic, etc





New Relic is a web application performance service designed to work in real-time with your live web app. New Relic Infrastructure provides flexible, dynamic server monitoring.

New Relic is a Software as a Service offering that focuses on performance and availability monitoring. It uses a standardized Apdex (application performance index) score to set and rate application performance across the environment in a unified manner.

New Relic Application performance monitoring (APM) – picks up information about functions in your application, record any errors, and report them back to the New Relic app interface and helps to analyze an overview dashboard that shows latency, throughput, and Apdex score. New Relic also supports Synthetic monitoring, alerting and dashboards



Rollbar is a cloud-based bug tracking and monitoring solution that caters to organizations of all sizes. Rollbar supports multiple programming languages and frameworks like JavaScript, Python, .NET, Drupal, Wordpress and Pyramid

Rollbar provides automatic error grouping based on an error's root cause and also gives users an option to customize these grouping rules

Some of the features offered by Rollbar include,  
Errors get queued, de-duped  
grouped and prioritized View detailed stack traces with local variables  
JavaScript source map support

Rollbar collects, aggregates and displays errors in real time. Get instantaneous insight into your errors by viewing stack traces, exception messages and related errors. Rollbar shows you the most relevant information first and lets you drill down to specific occurrences for more advanced troubleshooting.



Charles Web Debugging Proxy is a cross-platform HTTP debugging proxy server application written in Java. It enables the user to view HTTP, HTTPS, HTTP/2 and enabled TCP port traffic accessed from, to, or via the local computer.

Charles Proxy can automatically configure so that the applications automatically start using Charles proxy be it windows, mac, or any other system.

Key features of Charles Proxy include:

- SSL Proxying – view SSL requests and responses in plain text
- Bandwidth Throttling to simulate slower Internet connections including latency
- AJAX debugging – view XML and JSON requests and responses as a tree or as text
- AMF – view the contents of Flash Remoting / Flex Remoting messages as a tree
- Repeat requests to test back-end changes
- Edit requests to test different inputs
- Breakpoints to intercept and edit requests or responses
- Validate recorded HTML, CSS and RSS/atom responses using the W3C validator

# CONCLUSION

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- I have been working lately about the process and various techs that are used in the company in order to understand the system and contribute towards it.
- I have learned many new tools and used them to process request in the dev team and at the client end.
- I have been assigned various tasks to practice the practicality of the tools that the company uses and get versed with it.
- At Cvent we are not confined to unidirectional job rather we are made familiar with diverse technologies that is enhancing our knowledge base.

# DETAILS

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Thank You