

What does R do

The open source statistical programming language R, or a commercially supported version of it from one of several vendors, and open source R packages found on the Comprehensive R Archive Network (CRAN), are used to analyze data.



What does RStudio do?

RStudio makes open source and enterprise-ready professional products for people who analyze data using R and R packages. While most of our software is free, we have two flagship products designed for enterprise use:

- **RStudio Server Pro** is an integrated development environment (IDE) used to create programs with R. It is installed on a linux server and accessed by R users via a browser.
- **RStudio Connect** is a publishing platform for R users to share R programs with anyone, including plots, reports, dashboards, notebooks, documents, and interactive web applications. It is installed on a linux server. RStudio IDE users can publish their work to RStudio Connect from within their IDE. Anyone with access to RStudio Connect and the right permissions can use the work RStudio IDE users have shared with them.



Together, RStudio Server Pro and RStudio Connect enable an enterprise-ready professional data science platform for all the work your colleagues create in R and for all the people who consume it.

Technical Questions & Answers

	Question	Answer	Reference
System Requirements	What operating systems are supported?	Linux	1.1 System Requirements
	Which Linux distributions are supported?	RedHat (6.0+, 7.0+) CentOS (6.0+, 7.0+) and Ubuntu (12.04, 14.04 & 16.04).	1.1 System Requirements

System Requirements	What are the minimum hardware requirements?	Minimum recommended requirements are 4 GB of RAM and 2 cores.	Support Document: What are the system requirements for RStudio Connect?
	What level of access does RStudio Connect need to run and install?	Connect requires 'root' access for running and installation.	1.1 System Requirements
	Which web browsers are supported?	Chrome, Safari, Firefox, IE 10, IE 11 and MS Edge	1.1 System Requirements
	Does Connect require a database?	Yes. By default Connect comes with a SQLite DB. You can also configure Connect to use a Postgres DB, but Postgres will need to be installed separately.	9. Database
	Can I change which database Connect uses?	Yes, Connect includes a utility to migrate from a SQLite DB to Postgres DB.	9.1 Changing Databases
Installation and Configuration	What are the steps to installing and setting up the server?	Download and install R and RStudio Connect, and then configure authentication and email.	2 Getting Started
	Are there any considerations when using RedHat or CentOS?	Yes, for 6.0+ there may be a need to point the OS to the Extra Packages for Enterprise Linux (EPEL).	2.1.2 RedHat/CentOS (6.0+)
	We will use Ubuntu 16.04 or RedHat (CentOS) 7+; what will Connect use to start and stop?	Connect will use 'systemd'.	2.2.1 systemd (RedHat/CentOS 7, Ubuntu 15.04+)
	We will use Ubuntu 14.04 , 12.04 or RedHat (CentOS) 6; what will Connect use to start and stop?	Connect will use 'Upstart'.	2.2.2 Upstart (Ubuntu 12.04 through 14.10, RedHat 6)
	How do I activate my RStudio Connect license?	This is done by running a one line command.	3 Licensing & Activation

Installation and Configuration	How many Connect configuration files will I need to get familiarized with?	One, found in /etc/rstudio-connect/rstudio-connect.gcfg.	2.3.1 Editing the Configuration File
	What port does Connect use to interact with end-users?	By default, Connect uses port 3939, but it can be moved to a more standard port like port 80	2.3.3 Sign In!
	How do I configure email in Connect?	After signing in, email can be set up under the Admin>Settings section of the site.	2.3.4 Email Sending
Server Administration	How do I upgrade Connect?	Download and install the latest rpm or deb file and follow the instructions to restart Connect. The installer will respect the existing configuration. Plan for limited downtime (30 minutes).	5.4 Upgrading
	Can I backup Connect?	Yes, we recommend regularly backing up the Connect database and data directory.	4.7 Backups
Audit	Does RStudio Connect have activity audit capabilities?	Yes, RStudio Connect tracks over a dozen different administrative activities	6.2 Audit Logs
	Which authentication methods does RStudio Connect support?	LDAP, Active Directory (AD), Google OAuth 2.0, Pluggable Authentication Module (PAM) and Proxied Authentication. Connect also comes with a built in authentication method.	7 Authentication
	Does Connect support Kerberos?	Not in the present version. It is planned for a future release.	

Audit and Authentication	Can I restrict who can login into Connect as a whole?	Yes, if using AD or LDAP, Connect will accept a White List of groups that can logon	7.2.3.13 WhitelistedLoginGroup
	Does connect come with default security roles?	Yes, there are 4. They are: Administrator, Publisher, Viewer and Anonymous.	8 Authorization
	Can I restrict access to Hosted APIs?	Yes, Connect includes support for API Keys	13.5 API Keys
R and Package management	Does Connect support multiple versions of R?	Yes, multiple versions of R can be installed in predetermined locations in the server. Connect will automatically either use the same version of R as the app or RMarkdown, or will attempt to use a version that's close.	11.3 R Version Matching
	How does Connect handle different versions of R packages?	During publishing Connect bundles all of the relevant source code and dependencies, including the packages used in the app or document.	12.1 Package Installation
	Does Connect support Private Repositories?	Yes, if correctly configured no adjustment to Connect is needed.	12.2 Private Repositories
	How does Connect handle Private Packages?	The package can be placed in a local directory, and then referenced in Connect via the configuration option <code>Server.SourcePackageDir</code> . Connect will look for the package in that directory before attempting to download it.	12.3 Private Packages
	Does Connect allow you to use a different service account from the default 'rstudio-connect'?	Yes, this is done via the <code>Applications.RunAs</code> property.	9.3 User Account for R Processes

R and Package management	Can Connect download packages behind a proxy?	Yes, set http_proxy or https_proxy in the Connect configuration file.	
Content Management & Monitoring	Can I make the path to content reader friendly?	Yes, Connect has a feature called Vanity Paths.	10.1 Vanity Paths
	Can a Publisher give access to a document, app, or API to groups instead of individuals?	It depends on the chosen authentication method. Please see the Authentication Method Capabilities section for more information.	
	Does Connect store server metrics?	Yes, they can be viewed in the Connect dashboard. Additional metrics can be exported to Graphite.	13 Historical Metrics
High Availability	Does Connect support HA?	Yes, 2 or more identically configured Connect instances can be setup for load balancing and HA	6 High Availability
	What do I need to install for HA?	RStudio Connect requires Postgres with an empty DB, a NFS v3 file share, and an external load balancer with support for sticky sessions.	6.1 HA Checklist
	Can I migrate from a single instance to HA?	Yes, see the admin guide for detailed instructions.	6 High Availability

Authentication Method Capabilities

Authentication Method	Supported	Grant access to content to users who have not previously logged in	Group access to content
LDAP and Active Directory - Single Bind	Yes		
LDAP and Active Directory - Double Bind	Yes	Yes	Yes
Google OAuth 2.0	Yes	Yes*	
PAM	Yes		
Proxied Authentication	Yes		
Connect's built-in authentication	Yes	Yes	Yes

Single Bind: LDAP system allows a user account to connect directly to the LDAP directories by entering a username and password

Double Bind: LDAP system requires a Bind to Search, and a second Bind to connect to the LDAP directories.

* Connect only searches within the Google organization of which you are part