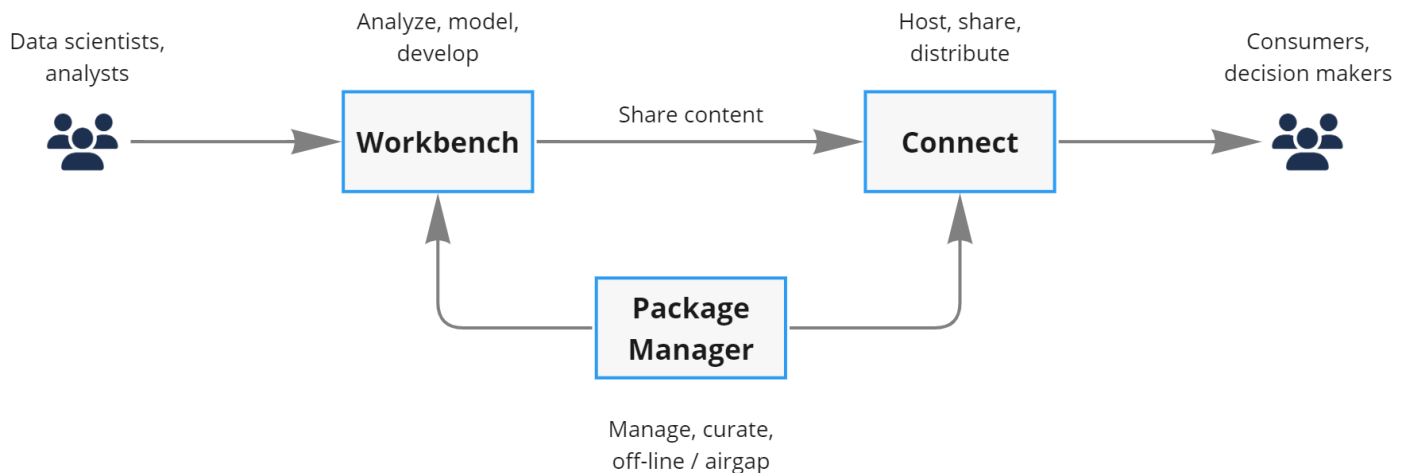


Posit Team Bundle: product tier descriptions

Posit Team Bundle

The complete self-hosted solution for every data science team using Python or R.

All the enterprise-friendly features you expect: centralized management, secure access to data, scalable workflows, and commercial support. Reduce the cost and uncertainty of building your own deployment solutions.



Posit Workbench

The enterprise-ready home for open source, code-first data science teams to collaboratively analyze data and build models, applications, and reproducible reports at scale. It supports both R and Python, helping make data scientists more productive with secure access to all the development environments they love, including RStudio, Jupyter and VS Code.

Posit Connect

Data scientists use Posit Connect to automate time-consuming tasks with code, distribute custom-built tools and solutions across teams, and securely share insights with decision makers. Connect supports the work you create in both R and Python. Publish interactive applications, documents, notebooks, and dashboards. Deploy models as HTTP APIs, and configure reports to run on a custom schedule.

Posit Package Manager

The repository management server to organize and centralize R and Python packages across your organization. Give your users access to the Data Science packages they want – public or private – and limit access to those you don't want them to use.

Posit Workbench

Posit Workbench

Feature	Product tier			Description
	BSC	ENH	ADV	
Server activations				
Activations (Server + Staging)	1 + 1	2 + 2	∞	
Essentials				
Access Workbench through browser	✓	✓	✓	Access Workbench securely from any web browser and prevent exposing data directly to desktop.
Multiple Python / R versions	✓	✓	✓	Provides consistent versions of R/Python for all users, making collaboration easier.
Concurrent sessions	✓	✓	✓	Users can run multiple sessions of VS Code, Jupyter Notebook, and RStudio Pro at the same time.
Advanced Python / R session management	✓	✓	✓	Users can manage sessions in Jupyter Notebook, JupyterLab, VS Code and RStudio Pro via a single platform. RStudio users can dynamically change the version of R via built-in UI.
VS Code, Jupyter, and RStudio Pro	✓	✓	✓	Users have access to all of the best open-source IDEs, including RStudio, VS Code, and Jupyter, all in a enterprise-supported platform.
Feature Limits	✓	✓	✓	For compliance or increased security, administrators can turn off features such as file upload/download, access to the terminal, package installation, and more.
Supported ODBC drivers	✓	✓	✓	Workbench supports Posit's Professional Open Database Connectivity (ODBC) drivers, allowing Workbench to easily 'pull in' data from database management systems.
Server-grade compute	✓	✓	✓	Server grade compute provides shared and efficient resource allocation for user populations of varying size.
Administrative Dashboard	✓	✓	✓	Admin UI for managing users, sessions, and a simple dashboard for viewing server utilization.
Execution				

Configurable computational resources	✓	✓	✓	Depending on configuration, admins are able to limit available resources per user or user group within guardrails, meaning that certain users may have access to small resources while power users have access to more resources for computationally intensive work.
Governance & Security				
SSO / Authentication	✓	✓	✓	Posit Workbench access is gated behind enterprise-grade authentication, including SSO via SAML, OIDC, Okta, AzureAD/EntraID. PAM/Kerberos or LDAP are also supported.
Auditing and Monitoring		✓	✓	Auditing includes the ability to audit user-run code in RStudio as well as session use. Monitoring is focused on more robust server metrics that are beneficial for high user counts or load-balanced/cluster setups of Workbench, including Prometheus metrics.
Workbench managed credentials for AWS, Azure, and Databricks		✓	✓	Workbench can manage and refresh short-lived OAuth tokens for seamlessly accessing Cloud-based data and services without the need for PATs. Current support for AWS, Azure, and Databricks credentials for RStudio Pro; AWS and Databricks credentials for VS Code.
Productivity				
Databricks Cluster integration		✓	✓	The Databricks Cluster pane in RStudio Pro provides a way to seamlessly manage, connect to, and access existing Clusters in Databricks.
Execute long-running tasks as Workbench Jobs in RStudio / VS Code			✓	Workbench Jobs provide a way to offload long-running tasks to a separate session. When Workbench is backed by Kubernetes or Slurm, users also have support for Workbench Jobs that scale up in that attached Cluster.
Architecture				
Load Balancing and/or High-Availability		✓	✓	Workbench automatically distributes incoming network traffic across backend servers to enable peak performance and minimize downtime. High-availability can be used to avoid overall Workbench downtime in the case of a node failure.
Managed services			✓	For teams that want to simplify the management of Posit Workbench, they can offload administration to our Cloud partners. This includes AWS SageMaker (RStudio Pro only), AzureML, Google Cloud Workstations. Posit is a Launch Partner for Databricks Lakehouse Apps and Snowflake Container services, expected to launch in 2024.

Off-Host Execution on Kubernetes	✓	Users can access Workbench backed by native integration with Kubernetes clusters on-premise or in Cloud. This also adds support for Container-backed sessions for more distinct isolation of environments including Python / R or system dependencies.
Off-Host Execution on SLURM	✓	Users can access Workbench backed by native integration with SLURM, a high performance computing (HPC) framework.

Posit Connect

Posit Connect

	Product tier			
Feature	BSC	ENH	ADV	Description
Server activations				
Activations (Server + Staging)	1 + 1	2 + 2	∞	
Essentials				
Publishing Tools	✓	✓	✓	Easy-to-use publishing options designed to fit your deployment workflows: Push-button, Git-backed, or CLI.
Runtime Settings	✓	✓	✓	Content-scoped controls for scaling and tuning Python or R code execution on the server.
Environment Variables	✓	✓	✓	Content-scoped custom environment variables that are encrypted on-disk and in-memory.
Content Logs	✓	✓	✓	An interface that displays execution details for each process associated with a piece of content. Standard output and standard error are captured and streaming log entries appear in real time.
Content Dashboard	✓	✓	✓	A content listing interface that provides basic search functionality and tag-based organization.
Connect Server API	✓	✓	✓	A developer-style API for publishers and administrators who want to deploy and manage content programmatically, automate tasks, retrieve server information, and perform various administrative functions using HTTP-based requests.
API Keys	✓	✓	✓	User-scoped API key generation and management interface.
Hosting				
Static and Rendered Content	✓	✓	✓	Support for content types that have no server component: Plots, Pins, HTML, Jupyter Notebooks (not Voila), Quarto (not Shiny), and R Markdown (not Shiny).
Interactive Applications and Documents	✓	✓	✓	Support for content types that are seen as interactive and have a hosted server component: Shiny for R, Shiny for Python, Shiny Quarto, Shiny R Markdown, Jupyter Voila, Dash, Streamlit, and Bokeh.

API-type Content	✓	✓		Support for content types that are seen as request-based and have a hosted server component: Plumber, WSGI API types (Flask, Bottle, Falcon, pycnic), and ASGI API types (FastAPI, Quart, Sanic, Falcon-ASGI, Starlette).
Security				
SSO / Authentication	✓	✓	✓	Integrate with a number of 3rd party products and authentication providers for user authentication. Connect only supports one active authentication provider at a time.
Browser Security	✓	✓	✓	Secure publishing and interactions with content using SSL/TLS.
Environment Management Controls	✓	✓	✓	Configuration options for package repository integrations, environment management, and process execution.
Automation				
Content Scheduling	✓	✓	✓	Re-execute rendered content published with source code on a set (customizable) schedule and view past renderings (using the History tool).
Email Distribution	✓	✓	✓	Schedule an email to be sent (or conditionally suppressed) every time rendered content is re-executed.
Report Parameterization	✓	✓	✓	An interface for users to change inputs on a parameterized R Markdown document and create variations on a single report.
Authorization				
Content Collaborators	✓	✓	✓	Content owners can allow other Publishers or Administrators to make updates to the content item by giving them collaborator access.
Authenticated Access to Content	✓	✓	✓	Content owners can share content access with everyone on the server, or specific sets of authenticated users or groups.
Unauthenticated Access to Static Content (with Powered by Connect message)	✓			Users who are not authenticated with Connect can view a content item when the content owner chooses this access level. A "Powered by Posit Connect" tag is applied to this content.
Unauthenticated Access to Static Content		✓	✓	Users who are not authenticated with Connect can view a content item when the content owner chooses this access level.
Public Access to Dynamic Content		✓	✓	Users who are not authenticated with Connect can only view interactive or request-based API-type content if it is open to the public internet. Requires a Public Access license.

Execution

Local Content Execution	✓	✓	✓	The Posit Connect application service and all published content execute on the same host. Load-balanced server configurations are supported where applicable.
Off-Host Content Execution on Kubernetes			✓	Published content is executed in an off-host container that is isolated from the Posit Connect service. Requires Kubernetes. Does not support "Current User Execution".
Custom Default Execution User	✓	✓	✓	Administrators can change the execution user for a piece of content by changing the default "RunAs" user.
Current (Visiting) User Content Execution		✓	✓	Connect can use a local Unix account associated with the currently logged-in user when executing applications. Requires PAM Authentication.

Server Management

Event Auditing	✓	✓	✓	A record of changes triggered either by a user or the system which can be accessed by Connect Administrators for auditing purposes.
Metrics and Process Management	✓	✓	✓	An interface available to Connect Administrators which provides basic visibility into historical metrics such as resource usage over time and currently running processes.
Server Status Reports	✓	✓	✓	A tool available to Connect Administrators that performs tests on a running Connect server and its process execution environments.
Usage Tracking	✓	✓	✓	Instrumentation endpoints in the Connect Server API to report on content usage.
Custom Branding		✓	✓	Configuration settings for customizing the default product branding and user experience.

Posit Package Manager

Posit Package Manager

Feature	Product tier			Description
	BSC	ENH	ADV	
Servers and repositories				
Activations (Server + Staging)	1 + 1	2 + 2	∞	A “repository” is a set of packages that you want to make available to a set of users. For example, one repository might be a full-mirror of CRAN for development work, and a second one a separate curated repository with just a set of regulatory-approved packages for use in production. Can also be used to provide different sets of packages for use by different teams and/or projects.
Number of repositories	3	10	∞	
Essentials				
Mirrors of CRAN, Bioconductor, and PyPI	✓	✓	✓	Provide full mirrors of public repositories internally within your own network/firewall, eliminating the need for end users to access the public repositories directly.
Date-based repository snapshots	✓	✓	✓	Access older versions of packages to help easily reproduce projects or preserve future compatibility.
Posit-built binary CRAN packages	✓	✓	✓	Posit-built binary versions of CRAN packages for Windows, macOS, and many versions of Linux, providing faster installation without the need to build the package from source.
Internal (local) packages	✓	✓	✓	Support for adding your own packages (in source and/or binary format) and make those available for installation using the same tools used for installing from public repositories (e.g. <code>pip</code> or <code>install.packages()</code>).
Package Usage Dashboard	✓	✓	✓	View download statistics by package or license type to monitor server utilization and most frequently installed packages.
Scalability				
Multiple server activations for High Availability		✓	✓	Package Manager can be deployed across multiple servers for high availability and redundancy.
Governance & Security				

Curated repositories	✓	✓	Create repositories containing only a subset of packages from a public repository, and optionally adding in your own internal packages to create a unified “one-stop shop” repository of approved packages for users.
Security vulnerability blocking for public repositories	✓	✓	Ability to block all package versions with a known vulnerability found on the OSV.dev vulnerability database. Note: this is all or none at the Enhanced tier. Exceptions to allow individual packages with vulnerabilities to be served require custom exception rules available at the Advanced tier.
Offline access in “air-gapped” environments		✓	Support for environments that are fully isolated from access to the Internet. Administrators must use the Offline Downloader on an Internet-connected machine to download public packages to disk and then copy those files to the air-gapped Package Manager server every time they wish to update the available packages. Note: This is not required for environments where only users are restricted from accessing public repositories on the Internet. If the firewall can be opened to allow the Package Manager server to access the Posit Package Service, that is core public repository mirroring functionality available at all product tiers. Currently only CRAN or local (internal) packages are supported offline. Offline PyPI mirrors coming soon.
Custom package blocking rules and exceptions		✓	Fully-customizable package blocking rules to allow blocking of individual packages by name, version, or partial name matching; or to provide override exceptions to allow packages that are blocked by other rules. Also provides for remote API integration with other sources of package blocking lists.
Restrict packages by open-source license type		✓	Allows creation of rules for blocking packages with specific open-source licenses (e.g. AGPL), or allowing only packages with approved license types (e.g. MIT).
Integration			
Git builders		✓	Monitor a public or internal Git repository containing R or Python package source and automatically build a new version of the source package and add it to Package Manager whenever the Git repo is updated. Can be configured to rebuild the package on every commit to a specific branch, or whenever a new tag is added.

Integration with CI/CD pipelines for remote publishing



Enables remotely publishing new packages via a secure API using our remote tools. Designed for teams that have their own CI/CD systems (Jenkins, TravisCI, GitHub Actions, etc.) for building Python or R packages and want to be able to automatically publish the built packages to Package Manager as part of that pipeline. Also can be used for remote publishing directly by trusted package developers.

Integration with JFrog Artifactory / Sonatype Nexus



Allows integration with Artifactory or Nexus as the upstream source of public packages. Typically used in environments where all packages must come through Artifactory/Nexus to be scanned/approved, but users still want the benefits of using Package Manager.

Software License Descriptions

Posit Software, PBC

January 25, 2024

Defined Terms: The following terms shall have the following meanings. All other defined terms used herein shall have the meanings accorded to such terms in the Posit End User License Agreement at <https://posit.co/about/eula/>.

Server Types

Server: means a physical or virtual computer server.

Staging Server: means a Server used for the sole purposes of (i) testing changes to your computing environment, or (ii) testing Customer Applications, scripts, or documents before deploying them to your Users.

User Types

Anonymous User(s): means Users that do not have network or server credentials and who do not login and authenticate to use the Software.

Named User(s): means a particular individual as the User who is given network or server credentials to access and use the Software and who must login and authenticate in order to use the Software. Named Users expressly exclude Anonymous Users.

License Types

Disaster Recovery Software License: Under the terms of a Disaster Recovery Software License, the Software is licensed to you for the sole purposes of enabling the recovery of the Software following a natural or human-induced disaster and not for the purpose of uninterrupted business continuity or configuration in an active-active configuration where traffic is received simultaneously to both clusters or for any other purposes for which separate licenses must be purchased.

Education License: Under the terms of an Education License, the Software may be used by a student or a faculty/staff member for educational purposes and for no other purpose based on the pricing and restrictions set forth at <https://posit.co/pricing/academic/>.

Named User License: Under the terms of a Named User License, the Software is licensed for use by a specified number of Named Users. You must pay a license fee for each separate Named User that you wish to login/authenticate to use the Software. A Named User License for the Software may not be shared or re-assigned except as described in this paragraph. You may permanently terminate a Named User's use of the Software and assign the Named User's license to a new Named User. For example, if a Named User ceases to use the Software or ceases to be employed by you, you may re-assign their Named User License to a new Named User.

Staging Server License: Under the terms of a Staging Server License, the Software is licensed to you for use on a single Staging Server.

High Availability Server License: Under the terms of a High Availability Server License, the Software is licensed to you for use on a single High Availability Server.

Subscription License: Under the terms of a Subscription License, the Software is licensed for only the Subscription Term set forth in the Order Form. A Subscription License is in combination with the other license types set forth herein thereby limiting the use of the Software to such applicable license type for the applicable Subscription Term. A Subscription License begins on the Subscription Start Date and continues for the Subscription Term specified in the Order Form. If the Subscription Term is not specified in the Order Form then the Subscription Term is twelve (12) months from the Subscription Start Date. Software that is licensed pursuant to a Subscription License is activated by a license key or license file that limits Software usage to the Subscription Term.

Subscription Start Date: means the date a license key to activate the Software is provided to you.

Content Types

Static Content: means content that has no hosted server component for a viewer. These include document frameworks published without server-executed source code, as well as plots, Pins and HTML.

Rendered Content: means content that has no hosted server component for a viewer. These include document frameworks published with source code so that it may be re-executed on Posit Connect, for example Quarto documents (without a Shiny component), R markdown documents (without a Shiny component) and Jupyter Notebooks, but which does not require server side execution.

Interactive Content: means content that has a hosted server component. These include interactive applications and documents, as well as request-based API-type content frameworks.

Server-Controlled Content: means content that can only be made available to Named Users on Posit Connect.

Network-Controlled Content: means content that can be hosted on Posit Connect and shared openly on an internal or private network with Anonymous Users without requiring public access, such as, content shared openly on an internal/private network.

Public-Access Content: means content hosted on Posit Connect that is accessible to anyone on the public internet. This content can be Static Content, Rendered Content or Interactive Content, but it must not require or include authentication of any kind to access. By designating content as Public-Access Content, you opt-in to Public-Access Content Verification.

Public-Access Content Verification: means that Posit Connect will automatically send an electronic message to Posit, and once Posit Connect receives a confirmation message the Public-Access Content will be made available publicly. The confirmation message verifies that

the Public-Access Content is indeed publicly accessible, and without this confirmation the Public-Access Content will not render for any Anonymous Users.

Other

Repository: means a set of packages made available to a set of Users. For example, one Repository might be a full-mirror of CRAN for development work, and a second Repository might be a separate curated Repository with just a set of regulatory-approved packages for use in production. Repositories can contain only one type of package (e.g. R or Python).

License File: means an electronic key that allows activation of Posit Software according to the license type and limitations that you have purchased a subscription for. A license file is for your own personal use to activate your subscription to the Posit Software. You must take all reasonable care to protect this license file like you would protect a password, and you are not permitted to use a license file on more Servers than the number of Servers for which you have purchased a subscription from Posit. In addition, if you deploy the Software on multiple Servers, you must ensure you don't make the Software available to more than the number of Named Users for which you have purchased a subscription from Posit.

Software License Terms

Posit Professional Drivers: Posit Professional Drivers enable you to connect Posit Workbench, Posit Connect, RStudio Desktop Pro, RStudio Server Pro or Shiny Server Pro with third party database products and services. You may download and use Posit Professional Drivers at no additional charge with such Software.

RStudio Desktop Pro: RStudio Desktop Pro is licensed for use by one Named User on up to five computer desktop devices. You must pay a license fee for each Named User that you wish to access and use the Software.

Posit Connect

Posit Connect is licensed based on the license type set forth below.

Anonymous Users are not permitted to upload data or content to Posit Connect, but are allowed to access and use Posit Connect and to access data and content that is not Server-Controlled Content.

Posit Connect is licensed on a Named User basis by up to that number of Named Users included in your subscription.

Posit Connect Basic: Posit Connect Basic includes one Server activation and one Staging Server activation.

Static Content and Rendered Content may be set to Network-Controlled Content so that Anonymous User access is permitted.

Interactive Content will always be Server-Controlled and may only be accessed by Named Users.

Any Network-Controlled Content will have “Powered by Posit Connect” branding applied.

This license is not intended for Public-Access Content.

Posit Connect Enhanced: Posit Connect Enhanced has the same entitlements / restrictions as Posit Connect Basic, with the following changes:

Posit Connect Enhanced includes two Server activations as well as two Staging Server activations.

Publishing of application program interface (“API”) content types are enabled.

Static Content and Rendered Content may be set to Network-Controlled Content so that Anonymous User access is permitted.

Network-Controlled Content will NOT have “Powered by Posit Connect” branding applied.

Interactive Content will always be Server-Controlled and may only be accessed by Named Users.

This license is not intended for Public-Access Content.

Posit Connect Advanced: Posit Connect Advanced has the same entitlements / restrictions as Posit Connect Enhanced, with the following changes:

Posit Connect Advanced may be used with an unrestricted number of Servers and Staging Servers.

This license is not intended for Public-Access Content.

Posit Connect Enhanced Public Access: Posit Connect Enhanced Public Access has the same entitlements and restrictions as Posit Connect Enhanced, with the additional entitlement that content may be designated as Public-Access Content (subject to Public-Access Content Verification).

Posit Connect Advanced Public Access: Posit Connect Advanced Public Access has the same entitlements and restrictions as Posit Connect Advanced, with the additional entitlement that content may be designated as Public-Access Content (subject to Public-Access Content Verification).

Posit Package Manager

Posit Package Manager Basic: Posit Package Manager Basic is licensed on a per Server basis. It includes one Server activation, one Staging Server activation, and three Repositories.

Posit Package Manager Enhanced: Posit Package Manager Enhanced is licensed for use on two Servers and two Staging Server activations. It includes ten Repositories.

Posit Package Manager Advanced: Posit Package Manager Advanced is licensed for use on an unrestricted number of Servers and Staging Servers with unlimited Repositories.

Posit Workbench

Posit Workbench Software is licensed based on the number of Named Users.

Posit Workbench Basic: Posit Workbench Basic includes one Server activation and one Staging Server activation.

Posit Workbench Enhanced: Posit Workbench Enhanced includes two Server activations and two Staging Server activations.

Posit Workbench Advanced: Posit Workbench Advanced includes unlimited Server activations.

Posit Team: Posit Team refers to the bundling of Workbench, Connect and Package Manager, and can be purchased as either Posit Team Enhanced or Posit Team Advanced.

Software included in a Posit Team Enhanced or Posit Team Advanced subscription must be purchased on the same Order Form with the same Subscription Term and Subscription Start Date and Subscription End Date.

Posit Team Enhanced: Posit Team Enhanced is a bundle of the following Software: Posit Workbench Enhanced, Posit Connect Enhanced, and Posit Package Manager Enhanced. The same license terms apply whether a subscription to the Software is purchased as part of Posit Team Enhanced or purchased separately. Posit Team Enhanced allows the identical entitlements, Named User counts and Server counts as the underlying Software included in the bundle.

Posit Team Advanced: Posit Team Advanced is a bundle of the following Software: Posit Workbench Advanced, Posit Connect Advanced, and Posit Package Manager Advanced. The same license terms apply whether a subscription to the Software is purchased as part of Posit Team Advanced or purchased separately. Posit Team Advanced allows the identical entitlements, Named User counts and Server counts as the underlying Software included in the bundle.