

Jira Data Center vs. Cloud

By Jira Developer Valeri Tikhonov

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Introduction

Atlassian has done an outstanding job in showcasing the benefits of Jira Cloud. The 'pros' information is well documented and readily accessible within the Atlassian Confluence database.

This document will primarily focus on highlighting the lesser-known or often-overlooked disadvantages of migrating from Jira Data Center to Jira Cloud.

Jira Data Center – available key aspects

Data Center is used to meet unique organizational needs for those that have flexibility in choices of infrastructure and controls. Data Center is equipped with built-in features to meet complex demands and combines the powerful tools of Jira service management and software by supporting them with the following properties.

High availability

Active clustering of critical applications ensures uninterrupted access to all users. In the event of unexpected hardware failure, it uses industry-standard shared file systems, load balancing, and database clustering to minimize downtime.

Performance at scale

Nodes are added to the Data Center clusters to increase the concurrency of user capacity and improve the response rate in growing user activity.

Load Balancer

The load balancer handles the distribution of requests from the user to the cluster nodes. The critical reason for use is that it detects the failure when the cluster node is down. It automatically directs the requests to other present nodes and ensures data flow efficiency. Any load balancer can be used, but it must support session affinity.

(Atlassian) Change to Jira Automation metering

We should be careful while budgeting transition to Jira Cloud. Atlassian using complicated models for charging for the offered services.

Citing from reddit:

Complaint. This change is beyond infuriating. When this goes into effect, I'll have more users in my instance than allowed automation runs. ... And more at this thread: https://www.reddit.com/r/jira/comments/16noa81/change_to_jira_automation_metering/

From Atlassian blog: <https://www.atlassian.com/blog/announcements/cloud-automation-packaging-update>

On November 1, 2023 we are launching a new Automation packaging model for all Jira Cloud products (Jira Software, Jira Service Management, Jira Work Management, and Jira Product Discovery).

This update will cover: The differences between the current and future packaging, and how long customers have to plan. Approximately how many customers will be affected by the change. The help we are offering to affected customers to ease the transition.

Also from Atlassian:

<https://community.atlassian.com/t5/Automation-articles/Introducing-our-new-packaging-model-for-Jira-Cloud-Automation/ba-p/2446099>

We have heard a lot of feedback and questions about the upcoming changes to Jira Cloud Automation packaging and acknowledge that this is a significant change for affected customers. We want to share some additional information:

Per our analysis, these changes will impact fewer than 5% of Jira Cloud Free, Standard, and Premium Edition customers.

We have accelerated the rollout of the new Automation usage tab in the Jira Cloud admin console to all of you to see your usage in new model. It is now live so you can monitor and adjust your usage directly. A screenshot has been added to the post below.

Customers on annual subscriptions will not have the new limits enforced until their next renewal quote creation date.

Jira Cloud Standard edition customers who are currently projected to exceed limits in the new model will have access to a 3-month trial of Premium at the price of Standard.

Jira Data Center vs Jira Cloud -- Critical differences

| Jira DC | Jira Cloud |
|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Deployment and administration | |
| Users have full control over the database, which means complete authority over administration and customization. | Less administration for installation and configuration. |
| Robust admin controls to help you maintain high performance, security, and compliance in a self-managed environment | Atlassian's generic approach to all cloud customers |
| Can be deployed as a single node or clustered, on your own physical hardware or IaaS. | Cloud Apps are limited in power compared with Jira Server. Hardware power increase comes with a price |
| Upgrades | |
| On premises | By Atlassian Cloud's "you get what you're given" software can be really bad for some people, especially when an overnight change can be a incredibly disruptive |
| Direct access to the database | |
| Full Access | ACCESS REMOVED |
| Access to the Jira Logs and infrastructure | |
| Full Access | User does not have direct access to modify the file system, database structure, or other server infrastructure. Some access available via rest api |
| Cleanup features to help you optimize the data you want to bring to Cloud in the future | No access |
| UI | |
| Intuitive | A lot of users are very unhappy with Cloud's counter-intuitive UI (it seems to be dreadful for the full range of users - old hands hate it, completely new people can't find anything, and waste vast amounts of their admins time with "but where is?") |
| Scripting / Customisation | |

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Full Script runner functionality. Available file system scripting, and versioning control like gitlab | Limited Script runner functionality. All scripts are inline scripts, control is not available |
| Java API | ACCESS REMOVED |
| Powerfull custom pluging development infrastructure, allows to fully customize and control Jira, add custom REST API end points, not available in out of box Jira DC. | Mostly limited to frontend js proprietary development tool forge, involving complex setup including Docker, Node.js, *ux, forge, npm, git, vs. |
| Full access to Jira database programmimg, including dbase triggers, stored procedures etc. | ACCESS REMOVED |
| Access to file system and full set of jira logs. Access to Server settings, including connectors and valves. | ACCESS REMOVED |
| Full control and availability of fixing complex introduced problems. | Loosing control over groing underlying set of problems, like duplicated issues keys, bulk fixes, administratoirs- and project managers-induced errors. |

Impact of functionality currently employed in Jira Data Center

This chapter will undergo expansion and in-depth exploration as part of the trial migration process for one of the projects from the data center. The following are some of the key focal points that will be investigated and elaborated upon.

Jira Automation

Jira Integration

Mail Handling

Custom EndPoints

Behaviours

Scripterd CFs

Dynamic Forms

Impact of disabled Java SDK

Impact of disabled access to DataBase