A ATLASSIAN

The tipping point to Data Center

How to know if (and when) it's right to migrate from server

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EXECUTIVE SUMMARY

Modern enterprises have their work cut out for them.

Their teams often span the globe, yet business goals and objectives often require close alignment and real-time collaboration. IT must deliver on a wide variety of needs for those teams, while managing a technology stack that has never been more diverse. They need powerful tools that enable end-to-end visibility and insight into the complexity of their business, while letting their teams become more agile.

Most organizations see a path to Atlassian Cloud as their long-term plan for a number of reasons; however, every journey is different, and for federated, complex environments, needs such as maintaining control of your instance(s) and ensuring compliance with strict industry requirements take precedence over the benefits of cloud.

While we have made the strategic decision to accelerate our investment in Atlassian cloud products to **move faster and go even further** in service of our customers' long-term success, we are committed to ensuring that Data Center is not only a viable solution for enterprises, but one that is tailored to the specific needs of customers who require a self-managed option.

Data Center provides enhanced features and capabilities for teams as they evolve and mature. Atlassian's Data Center product line includes Jira Software, Jira Service Management, Confluence, Bitbucket, Crowd, and Bamboo, each allowing for optionality, control, enhanced security, and the peace of mind to scale seamlessly with your team of teams. In this guide, you'll learn how to identify your organization's "tipping point" by looking things such as future growth, evolving compliance regulations, and the need for advanced controls, all to help understand whether Data Center is the right fit for your organization. Data Center was built to grow with you in your journey over time. Determining the right edition for your organization is key, especially as your needs change.

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The tipping point



The tipping point

What do we mean when we say the tipping point?

The decision to end-the-sale of new Server licenses in 2021 and support for all server products in 2024 was not made lightly or without the utmost confidence in the future of our cloud and Data Center offerings. With this announcement, many customers are finding themselves at a point of inflection, needing to understand direction forward is the best fit for the organization. As our cloud products become increasingly equipped to handle the needs of most server customers, the decision needs to be made on whether your needs align with the continuous evolution of cloud, or if there are considerations that makes Data Center the best possible fit for the future success of your organization. But it's not only limited to that, there's also the question of identifying when it makes sense to move to either cloud or Data center, given that support is still available and will be for some time. We call this juncture the tipping point.

Where do we go from server? And when do we make that call?

For many customers, questions like these came as a direct result of our announcement to end-of-life our server products in order to accelerate investment in our cloud products. However, enterprise customers like yourself have always faced a juncture in their journey when they need to ensure a plan is in place for the future growth of their Atlassian footprint.



The questions surrounding that decision largely remain the same: Are we in a position to adopt cloud? Is there a viable path to cloud over time? And last but not least, **do we need to remain in a self-managed environment?** Chances are you've found yourself here because your organization has one or more of the following needs:

- Ensuring the privacy and security of your company's data
- Meeting strict compliance and regulatory requirements
- Supporting your teams as they scale
- Ensuring teams can do their work efficiently and effectively
- Finding new ways to modernize their practices and processes

But it's also important to remember that support for server products will continue until February 2nd, 2024, and deciding when to move from server to Data Center in that time requires some more thought. For example, one big question to ask yourself is how important feature development (beyond security patches and bug fixes) to your organization? If it is not a priority to stay up to speed with product development, then there may not be as much urgency to your decision, however if you find value in the new features added with each release, it's important to know that after **February 2nd 2022**, only security patches and bug fixes will be included in server product updates.

Cloud vs. Data Center

Still unsure about what option is right for you? **Explore Atlassian cloud** to learn more about what makes these options unique.

In this guide we will help you understand and evaluate whether Data Center is right for you, and even more, what deployment of Data Center is right for you (between clustered and non-clustered environments). This means assessing the following problem areas that enterprises typically face against questions you may be asking yourself about the needs of your organization.



Note: While you may not meet all of these criteria today, it's important to envision your Atlassian growth trajectory and consider where you will be in 5 or 10 years down the line.

You need to eliminate downtime and optimize system performance to address growing pains before they happen...

You need scale, performance and availability.

You need to keep your data secure and confidently ensure compliance with internal and external regulatory standards...

You need security, governance, and compliance.

You need to seamlessly manage your teams and users at scale with the right protections, privacy, and identity controls...

You need advanced user management and controls.

You need to deploy on-premise or with IaaS vendors like AWS and Azure to best suit your existing investments...

You need flexibility when it comes to infrastructure and operations.

You need to unlock critical insights about your organization's productivity, as well as the impact and health of your Atlassian products...

You need data and insights.

You need to ensure flexibility with an ecosystem that's purpose-built for the enterprise, and apps that improve the experience of your Atlassian products while maintaining performance, stability, security, and compliance in enterprise environments...

You need extensibility and a verified enterprise app ecosystem.



Is Data Center right for you?



Is Data Center right for you?

You need scale, performance, and availability

As applications grow across an organization, they become mission-critical to every team's success. For some customers, there comes a time in their Atlassian journey when they need more than a single server, and want to scale their infrastructure by clustering their environment, but there are also plenty of features and capabilities to tackle your performance needs with a single node deployment of Data Center as well.

Determining scale

When considering scaling an instance of an application like Jira Software, many customers first think about the number of issues their instance can support, ignoring some of the other factors that can contribute to poor performance or increased administration. Below is a list of factors that we recommend considering when scaling a single instance of Jira Software. Keep in mind that one characteristic may not grow at the same rate as others. Many people consider the number of users that will have access to the system, but do not take into account the comparative activity of those users. Or conversely, just because the number of issues is increasing doesn't mean that the number of projects will too. More information on scaling Jira Software and other Atlassian applications can be found in our Enterprise documentation.

Each node in a Data Center cluster increases capacity for concurrent users so that you can scale your Atlassian application without sacrificing performance. Dedicate nodes in your cluster for automated tasks or route certain types of traffic - particular teams, or API traffic - to specific nodes while driving the remaining traffic to others to provide the highest quality of service. Easily add new nodes to your Data Center cluster without any downtime or interruption to services. Existing nodes in the cluster will automatically sync indexes and plugins with each new member giving you a hassle-free deployment and ensuring using have maximum uptime. And since Data Center is licensed by user count, you can better predict costs and scale your environment without additional licensing fees for new servers or CPU. An active-active setup gives you true high availability (HA) by allowing you to configure your setup so that you can direct traffic to specific nodes based on activity, or add more active nodes to offset demand during peak times.

High availability

A strategy to provide a specific level of availability, access to the application, and an acceptable response time. Automated correction and failover (within the same location) are usually part of high availability planning.

Questions to consider:

- How many users you have accessing your Atlassian applications each day? Are you at or approaching 500?
- Are your offices or workforce dispersed? When are your highest load or peak times?
- How often have you experienced unplanned downtime in the past year?
- How many issues do you have on your Jira instance, repositories in Bitbucket, or pages in Confluence?
- How many instances of Atlassian server products does your company run and is it intentional or not?

If these questions resonate with you, then it's likely that scale, performance, and availability are important factors to consider when determining if Data Center is a good fit. For customers on large instances, performance degradation usually happens under high load or at peak times. This means that as your concurrent usage increases, so do response times which leads to user frustration. System administrators are then looking for solutions to minimize pain – for users, and themselves. Many global companies experience this when multiple geographic locations comes online at the same time. Similarly, if you're experiencing unplanned downtime more than 1 or two times, then you may be ready for Data Center. Over time, many customers find themselves with multiple independent server installations. And it's more than likely that these instances have grown until management became untenable for a number of reasons, including but not limited to a lack of centralized administration, performance problems because of user growth, and a more complex procurement process. Consolidating these instances into a single Data Center instance can solve the majority of these problems, however, we also recognize that some times these multiple instances are done intentionally for different reasons; for example, maybe it's an instance used to collaborate with partners or customers, or to limit the user tier of a niche app only being used by one team.

Want to learn more about the features and functionality that Data Center provides to answer these questions? Check out **our ultimate guide to Atlassian Data Center** for a deep dive on capabilities as well as other tips and resources to scale your Atlassian products.

How much does it cost for your system to go down?

According to **2014 research by Gartner**, the average amount a company spends on unplanned downtime is \$5,600 per minute. **More recent reports** put that figure somewhere around \$9,000 per minute – and nets out to be over \$300,000 per hour!

Whether it's planned or unplanned, any amount of downtime will add to your operational costs, and Data Center significantly reduces this risk. If one server in your cluster goes down, the others take on the load. Instead of productivity grinding to a halt until the server gets back up and running, traffic is redirected to an active server and business continues as usual.

\$**5,600**

The average amount spent per minute on unplanned downtime

\$300K

The average amount spent per hour on unplanned downtime





CUSTOMER STORY

How a 100-year-old airline is scaling and transforming to bring innovation to aviation

Amid rapid growth and industry changes, Air France-KLM leveraged Atlassian Data Center to maintain their top-notch service while seamlessly scaling to 10,000-plus users.

As Air France-KLM expanded their Atlassian user base by 50 percent in seven years to support these goals, the IT department faced new challenges. It was becoming more and more difficult to manage so many users in a variety of tools, maintain stability, and deliver updates and improvements quickly. To overcome these obstacles, Air France-KLM chose to standardize onto one Atlassian platform.

By upgrading to Data Center, Air France-KLM can continue enjoying the productivity, collaboration, and service improvements they experienced by standardizing onto Atlassian, while increasing stability and scalability. "Data Center gave us performance and stability improvements. We're now able to provide a toolstack for over 10,000 customers with only 5-7 administrators," Corné says.



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Atlassian has changed the way [our] teams work and evolve. The products have especially helped the teams that are still growing their technical maturity. Departments that were struggling with technology and continuous improvement don't now.

CORNÉ DEN HOLLANDER Product Owner

You need security, governance, and compliance

While ensuring a secure environment is at the top of any organization's priority list, this objective is often more nuanced for an enterprise. As your organization evolves, your approach to security, governance, and compliance needs to evolve as well. The more you grow, the more complex your system becomes, and the more vulnerable you are to potential error. If you're in a highly regulated industry, the need to comply with internal and external compliance functions only increases; and that's the least of it, considering that these regulations are constantly evolving themselves. For those of you who need to maintain control of your environment to allow for a flexible response to ever-changing compliance requirements, clamp down on security, and give you the centralized visibility to monitor potential risks, Data Center fully supports the functionality and requirements your enterprise demands.

Questions to consider:

- Do you need to demonstrate compliance with any of your Atlassian tools (internal or external) for regulations such as HIPAA or FedRAMP?
- Are you trying to be more proactive in preventing external threats to your instance?
- How often do you need to adjust space permissions and page restrictions in Confluence?
- Do you need to be able to upgrade with more regularity to stay on top of the latest security patches?

Security and compliance-focused requirements are a necessity for modern-day enterprise software, so if your organization is impacted by internal or external regulations, then Data Center may be the best option for you. Additionally, Data Center products are built with proactive controls that enable your organization to minimize risk and help demonstrate compliance. You can learn more about how Data Center supports security, governance, and compliance needs in our enterprise security and compliance handbook for self-managed environments.

You need advanced user management and controls

As our products become mission-critical to your users, it's important that you focus on standardizing and controlling how your end-users access and use these systems. Managing users is even more essential and complicated at the enterprise level, where organizations are dealing with massive numbers of users and often operating under strict security and compliance guidelines. To help enterprises save time and keep their Atlassian products secure, we've built a number of advanced user management capabilities into our Data Center products.

Questions to consider:

- Does your organization have security standards in place for authenticating users beyond Basic Authentication?
- Do you lose valuable time to repeatable processes at scale such as manual user provisioning?

Most enterprise organizations are required to abide by certain standards - whether these are internally or externally mandated - and user authorization and authentication are two of the most common areas where you'll see standards in place (meaning you need something more than Basic Authentication). Another problem area for enterprises is the lack of automation when it comes to user provisioning. Provisioning new users can become a bottleneck that affects both IT teams and the users who need access. With Atlassian Data Center products, you can reduce friction in the provisioning process by using your identity provider as a single source of truth. You can learn more about advanced user management in Data Center here.

You need flexibility when it comes to infrastructure and operations

We want to make managing and deploying Data Center easy, in the environment of your choice, and we provide a variety of solutions to help you do just that. More and more organizations are choosing to host their applications in a virtual environment because it's typically more costeffective and offers a flexible alternative. In fact, 85% of Atlassian's selfhosted customers are choosing to deploy their applications at least partially virtualized. And many are leveraging cloud providers infrastructure service providers like Amazon Web Services (AWS) or Microsoft Azure to do just that. We provide fully supported Quick Start templates and guides for AWS and Azure to help you deploy and seamlessly, as well as Docker container images to easily replicate your deployment across architectures with any hardware you chose to use.

Questions to consider:

- Is your company moving towards leveraging IaaS providers like AWS and Azure?
- Do you have the need to containerize your instance to deploy testing and staging environments that replicate your production environment?
- Is it challenging to find the right window of time to upgrade your instance?

For enterprise organizations that require infrastructure flexibility, Data Center may be the best fit for you. For one, you can choose to deploy Atlassian Data Center applications on **the infrastructure of your choice**: your own physical hardware (on premises) or virtual machines vs. a public cloud provider like AWS and Azure. While we leave it up to you to choose which infrastructure option best suits your organization's requirements and existing investments, it's important to note that more and more customers are choosing to deploy Atlassian Data Center products using a cloud provider because it can be more cost effective and flexible than physical hardware.

You need enterprise-wide data and insights

As teams grow, processes change, and new regulations take shape, admins need more visibility into their products. With Data Center, we're aiming to make your job more efficient and stress-free by giving you all the tools you need to unlock critical information about your organization's productivity and the impact and health of your Atlassian products. Gain insight into your organization, mitigate potential risks with advanced administration controls and insights to care for your environment and keep it optimized for years.

Making the most out of your investment in Data Center starts with knowing the techniques you can benefit from to make Data Center as reliable and scalable as it can get. This starts with monitoring your implementation to understand usage, performance, and what changes (if any) need to be made. Different organizations have different requirements around monitoring and there are several approaches you can take, but prioritizing a monitoring strategy is crucial to getting ahead of any issues in the first place.

Questions to consider:

- Do you have enough visibility into what's happening in your instance?
- Do you currently have a solution to centralize visibility of usage across your products and instances?
- Do you currently have a solution for selective synchronization of your directories?

Monitoring and scaling are not processes that occur once during configuration without revisiting again. You should continue to refine your Data Center deployment through iterations of data-informed changes. This is key to the prolonged success of your installation. The tools afforded to you with the Data Center deployment option allow you to iterate endlessly as you see fit without having to worry about changing costs. With highly customizable applications like Jira Software, administrators are often left figuring out how to best manage the application. One of the most effective ways to scale products is for administrators to limit the number of configurations made to the application.

You need extensibility and a verified app ecosystem

The apps your team relies on to get work done can often become just as mission-critical as your Atlassian products. Our Data Center app marketplace was established to support every step of your teams workflow. These apps are thoroughly tested to ensure the stability, security and performance your team needs to confidently get work done.

Questions to consider:

- Are there any apps your team(s) has baked into your workflows?
- Do you have siloed ways of working that require a certain level of flexibility with the way Atlassian products interact with other tools?

Understanding what apps are critical to your Atlassian usage is a very important part of understanding whether Data Center is the right fit. Ensuring that any apps baked into your workflows are equally stable and performant to your products is exactly what we set out to accomplish when establishing Data Center approved apps. The testing criteria includes elements of how apps handle cache operations, support required databases, implement locking and availability in clustered environments, manage event handlers, and much more. You can learn more about Data Center approved apps in **our blog post on the matter**.



Before moving to Data Center



SECTION 3

Before moving to Data Center

Additional considerations before making the the decision to migrate to Data Center

Planning Ahead

As you prepare for a decision on whether to migrate your instance(s) to Data Center, there are multiple resources that you can dig into from our migration center - from documentation that will help you learn about Data Center and plan your migration to actual deployment guides - but this guide will cover some of the big rocks to address before making a move to Data Center.

Pick your architecture

Your **Data Center installment** can be run in a clustered or non-clustered architecture environment.

And since Data Center is licensed by user count, you can predict costs and scale your environment without additional licensing fees for new servers or CPU.

Non-Clustered Architecture

In this setup, your Data Center application runs on a single server – just like a Server installation. If you have an existing Server installation, you can still use its infrastructure when you upgrade to Data Center. Many features exclusive to Data Center (like **SAML single sign-on, self-protection via rate limiting,** and **CDN support**) don't require clustered infrastructure. You can start using these Data Center features by simply upgrading your Server installation's license.

In general, we recommend considering a non-clustered Data Center deployment if:

- You only need Data Center features that don't rely on clustering
- You're happy with your current Server infrastructure, and want to upgrade to Data Center without provisioning new infrastructure
- High availability isn't a strict requirement
- You don't immediately need the performance and scale benefits of clustered architecture

You can learn more by reading the blog here.

Clustered Architecture

In addition to the single server and database that you'd use in a single server deployment, Data Center enables you to add additional application nodes which form a cluster, as well as a load balancer to distribute traffic between nodes and a shared file system for effective attachment and artifact management. These are the individual elements you will need to build the Data Center deployment. If you intend to deploy Data Center in a clustered environment, your clustered architecture will need to include a load balancer, database, and shared file system.

Application Nodes

The application nodes are where the actual Atlassian application lives. Each node would have its own install of the software (Jira Software, Jira Service Desk, Confluence, Bitbucket, or Crowd). These nodes will be configured in a cluster, acting as one, serving the application to your users.



Sizing Legend	Small- scale	Mid-scale	Large- scale	Enterprise- scale		
Application usage						
Users	100	500	2000	100,000		
Active (Concurrent Users)	25	200	600	2000		
lssues	15,000	60,000	200,000	1,000,000		
Issues/month	200	1000	4000	200,000		
Custom Fields	50	150	300	600		
Permission Schemes	3	15	25	100		
Projects	20	80	200	300		
Parent Issue Types	10	20	50	160		
Resolutions	10	20	30	40		
Priorities	10	15	25	40		
Work flows	5	20	35	100		
System Level	Small- scale	Medium- scale	Large- scale	Enterprise- scale		



More sizing guidelines for things like system requirements can be found in **our documentation**.

Load Balancer

The load balancer is actually the first stop your requests will make as they come in. The purpose of the load balancer is to direct your incoming traffic to the various application nodes in the cluster., which you can configure to work pretty much however you'd like. For example, you could configure it so that certain types of traffic are sent to particular nodes, or that certain teams have their own nodes.

Database

If you choose to deploy Data Center in a clustered environment, it is required that the database be installed on its own node. If you're deploying on AWS, we offer support for Amazon Aurora, a true fault-tolerant relational database that provides further resiliency to your system. Data Center also supports the same databases as our Server offering but be sure to consult the supported platforms page to ensure that your preferred database technology and version are supported.

Shared File System

The shared file system is used by the Data Center deployment to store plugins, attachments, icons, and user profiles and avatars.

Installation recommendation

In the installation process, we recommend starting with one application node to ensure that the application is working as it should. When testing has confirmed proper functionality, add another application node to the Data Center cluster. At this point test that the load balancer is directing traffic between the nodes properly; if so, the Data Center now has true high availability.

Growing your Cluster

Nodes can be added to your cluster at any time if necessary, with no need for downtime. Simply provision a new machine with the application installed and add it to the cluster using the administrative controls (LINK). When a new node is added, indexes and plugins will be shared with it to ensure that the new node performs just as the existing nodes do. To make this process even easier, take advantage of server images to provision a new node using an image of an existing node with the application already installed. By using images in this way you can provision new nodes for your cluster nearly instantaneously, providing true high availability and building a more robust infrastructure to support uptime and performance needs.

Pick how you host your data

We leave it up to you to choose which infrastructure to host your Data Center deployment on. Whether it's with bare metal servers, virtual machines, or a hosted environment, Data Center runs in whatever environment you prefer.

Infrastructure as a service is becoming more and more popular amongst advanced IT teams and is compatible with the Data Center deployment option. If you choose IaaS, however, ensure that all instances and services used by Data Center are as collocated as possible. This means that, to the best of your ability, all nodes are located in the same geographical location. For example, in AWS, you can ensure that all nodes are in the same region and subnet, this ensures Data Center will function property. We want to make managing and deploying Data Center easy, in the environment of your choice. More and more organizations are choosing to host their applications in a virtual environment because it's typically more cost-effective and offers a flexible alternative. And many are leveraging infrastructure service providers like Amazon Web Services (AWS) or Microsoft Azure to do just that.

We wrote a **blog** covering everything you should know when considering deploying on IaaS.

AWS

Hosting your infrastructure on AWS has become the most popular deployment options today, with approximately 45% of our Data Center deployments on AWS.

With official support of AWS you can now deploy your Data Center cluster on AWS in minutes, including multiple server nodes, databases and a load balancer. Not only do we support AWS, but we worked with Amazon to develop cloud formation templates and Quick Start guides for each Data Center product so that you can get up and running in no time. With instant provisioning of nodes, you can much more easily scale Data Center to meet growing demand.

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When we upgraded from Jira 7.4 to Jira 7.10, we used Quick Start to create a new Jira instance from scratch and set up everything from the database to the file system automatically in a matter of minutes, compared to hours or days if we had had to set up a new stack manually. It's given our colleagues greater agility during their workday.

NICOLAS CORDIER ATLASSIAN ADMINISTRATOR

Azure

Deployments on Microsoft Azure are also fully supported. Easily get started using a jointly-built Atlassian template for Azure Resource Manager, accessible in the Microsoft Azure Marketplace or on our Azure resource page **here**. Build a Jira Software, Jira Service Management, Confluence, Bitbucket, or Crowd Data Center instance with configurable nodes in a few guided clicks, or simply spin up a test instance with dummy data. Extended services like automatic backups, geo-replication and encryption are supported with Azure SQL Database.

Docker

Enterprises have a tendency to accumulate operational overhead as their teams, product offerings, and infrastructure complexity grows. At the same time, the agility of the modern-day enterprise is key to its success, since it directly impacts organizational efficiency and competitive advantage. We've provide supported and maintained Docker container images so you can easily standardize across your deployment, regardless of what hardware you're using. Including Docker as part of your Data Center deployment reduces overhead spent on provisioning, updating, and maintaining your instances, and ultimately helps facilitate this necessary agility as you scale. To learn more about our including our Docker container images in your deployment, go here.

Data Center video library

Be sure to check out our **Data Center video library**, where you'll find bite-sized videos on how to deploy Data Center, as well as product demos to help you get the most out of your Data Center products.

Evaluate your app usage

Data Center Apps

Data Center comes equipped with an ecosystem marketplace full of approved apps that are purpose-built for the enterprise and are rigorously tested to ensure consistent performance, stability, and security in enterprise environments. Where there is a Data Center version of your Server apps, you are required to use the Data Center version of that app with you move to Data Center. Read our FAQs about Data Center approved apps to ensure a seamless move to Data Center apps.

Will you need additional support?

Enterprise Services

Enterprise grade solutions deserve enterprise-grade support, and to ensure that our customers have every possible opportunity to succeed with complex deployments such as Data Center, Atlassian offers enhanced services and support. We've included two of these specialized services and support for free as a part of your Data Center purchase.

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Customer Success Manager

When you move to Data Center, you'll get access to a dedicated customer success manager for your first year to get the most out of your purchase. Looking for help achieving your team goals and business needs? As a new Data Center customer, you have access to a dedicated Customer Success Manager as an ongoing resource throughout your first year. Get in touch here.

Priority Support

For the first 180 days of your Data Center subscription, you get access to Atlassian Priority Support for free. Your high priority issues will route directly to our most Senior Engineers committed to delivering higher SLAs, faster triage, and faster resolutions.

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Technical Account Manager

A Technical Account Manager (TAM) provides proactive and strategic guidance to help you maximize your Atlassian investment. Your TAM will guide provide guidance on upgrades, be your internal Atlassian champion, give you early access to special alpha/beta/pioneer programs and much more. **Find out more** about how a TAM can help you get the most out of your Atlassian tools.



Premier Support

Work with a dedicated team of senior support engineers to diagnose any issues in your Atlassian environment. This team gets to know three primary contacts from your company to learn your network and environment to reduce SLA times and get issues resolved faster. Learn more about our Premier Support offering.



Enterprise Partners

Work with trusted Atlassian partners who specialize in Enterprise and complex deployments of Atlassian products. Many of our Data Center customers work closely with our Enterprise Partners during the upgrade, installation and configuration of Data Center. **Click here** to find one in your area.

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Working with a TAM enabled our small team to build and execute a migration strategy without compromising the exceptional service our customers expect on a day-to-day basis.

DENIS BOISVERT ATLASSIAN TOOLS PRODUCT OWNER

CUSTOMER SNAPSHOT INDUSTRY: ENERGY Jira Software Data Center		Environment: Virtual (hosted) Nodes in the cluster: 2
52	projects	CPU on each server: 4 core
12,800	issues	Database: MSSQL
57	workflows	Load balancer: Apache
4,800	attachments	DR in place: Yes

customer snapshot industry: software & technology Bitbucket Data Center		Environment: Virtual (hosted) Nodes in the cluster: 3 CPU on each server: 4 core
		RAM on each server: 48 GB
2,000	users	Database: Oracle
3,000	repositories	Load balancer: HA Proxy
200-300	pull requests/day	DR in place: N/A*
4,800	attachments	*Atlassian supported DR was not available for Bitbucket Data Center at the time of this survey

customer snapshot INDUSTRY: SOFTWARE & TECHNOLOGY Confluence Data Center		
2.1M	pages	CI
1,400	spaces	R
43,000	active users	Da

Environment: Some combination of virtual (AWS, Azure, etc.) and physical servers Nodes in the cluster: 2 CPU on each server: 8 core RAM on each server: 48 GB Database: MSSQL Load balancer: VMWare DR in place: Yes

Sources and resources

You can find more information on the topics covered in this paper in our **Atlassian Documentation** or on the **Atlassian blog**.

"Jira Sizing Guide." Atlassian Documentation confluence.atlassian.com/enterprise/jira-sizing-guide-461504623.html.

"High Availability Guide for Jira." *Atlassian Documentation* confluence.atlassian.com/enterprise/high-availability-guide-for-jira-288657149.html.

"Jira Data Center Performance." *Atlassian Documentation* confluence.atlassian.com/display/ENTERPRISE/JIRA+Data+Center+Performance.

"Four Reasons it's time to try Data Center." *Atlassian Blog* atlassian.com/blog/jira-software/4-reasons-time-try-data-center.

"Your Atlassian products and IaaS: What you should know." Atlassian Blog atlassian.com/blog/enterprise/atlassian-data-center-iaas.

"Moving to Confluence Data Center." *Atlassian Documentation* confluence.atlassian.com/display/DOC/Moving+to+Confluence+Data+Center.

"Jira Data Center Health Check Tools." *Atlassian Documentation* confluence.atlassian.com/enterprise/jira-data-center-health-check-tools-644580752. html.

Paz, John. "Adding Cluster nodes to Bitbucket Data Center." *Atlassian Documentation* confluence.atlassian.com/bitbucketserver050/adding-cluster-nodes-to-bitbucket-data-center-913475560.html

"How to scale Jira Software to 10,000+ users." *Atlassian Blog* atlassian.com/blog/jira-software/scale-jira-software-10000-users-2

New resources added

Data Center approved apps: atlassian.com/licensing/data-center-approved-apps

Data Center infrastructure options: confluence.atlassian.com/enterprise/atlassian-data-center-architecture-andinfrastructure-options-994321215.html

The Ultimate guide to Atlassian Data Center: atlassian.com/whitepapers/atlassian-data-center-guide

How to choose the right infrastructure for your Data Center deployment: atlassian.com/blog/enterprise/data-center-enterprise-infrastructure-recommendations

How to deploy Atlassian Data Center on AWS: atlassian.com/enterprise/data-center/aws/tutorials

Prepare to upgrade from Server to Data Center atlassian.com/enterprise/data-center/prepare-to-upgrade-server-to-data-center

