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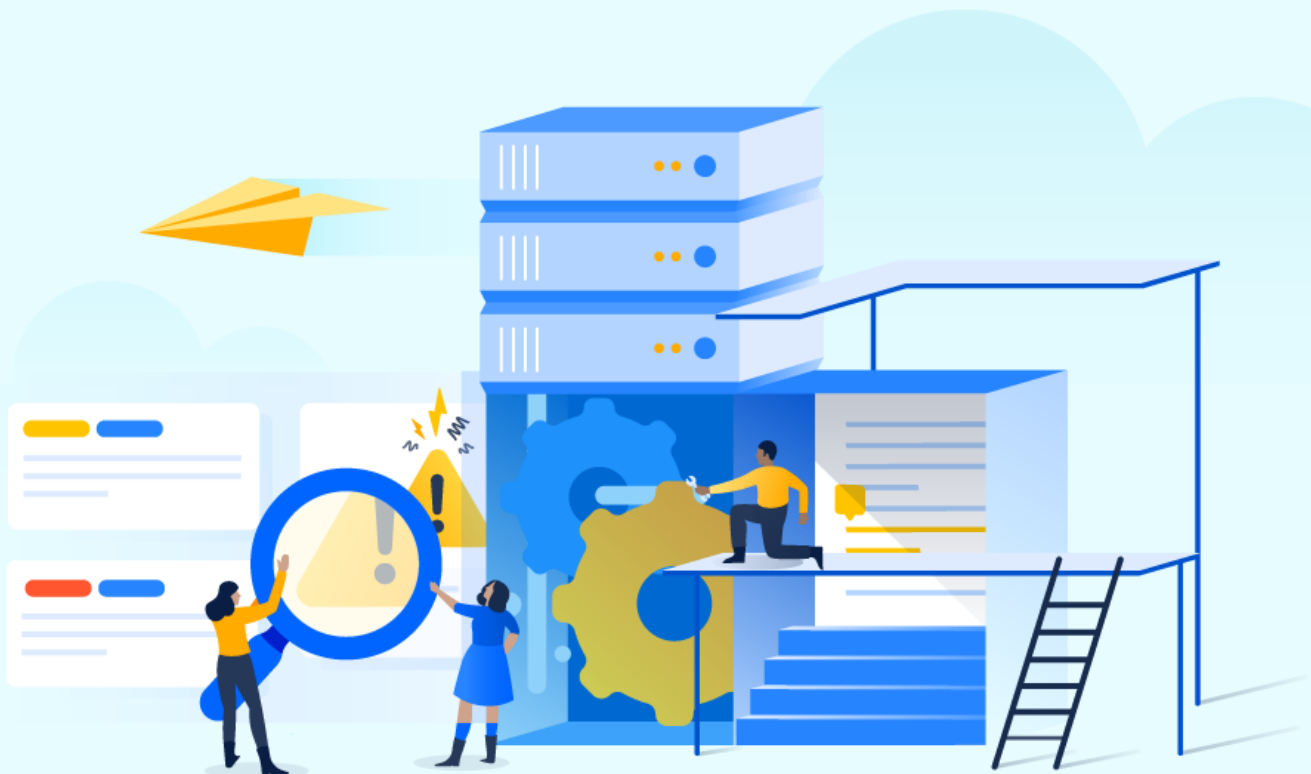# How Data Center protects your organization against downtime

Tips to help you beat downtime while still maintaining control over your environment

Stop unplanned downtime before it happens

It's impossible to pinpoint exactly when unplanned downtime is going to hit, which is why preparing for it is such a challenge for organizations at scale. In a self-managed environment, this can be even more complex depending on the type of infrastructure your products are running. We don't think you should be limited by your deployment. So, whether you're running on your own hardware or you're leveraging a cloud provider to host your products, Atlassian Data Center can help you minimize unplanned downtime.

To stop unplanned downtime from happening, you can deploy Data Center in a clustered architecture. Instead of running your products on one node, run them on multiple nodes. Traffic is distributed to each of the nodes in your cluster through a load balancer, so If one of your nodes goes down, your user traffic is distributed to one of the other active nodes in the cluster.

BONUS

Not only does deploying in a clustered architecture help you get rid of downtime – it helps with your product's performance too.

Upgrade without pulling down your instance

When you're the admin of a self-managed environment, deciding if and when to upgrade can be a challenge. You need to weigh the pros and cons of how your teams will be impacted, determine how long your environment needs to be offline, and anticipate potential issues with third-party apps or internal customizations. And on top of that, you're often making critical changes at times that aren't really ideal for you or your IT team.

Keep your upgrades rolling

If you're using Jira Software Data Center 7.3 or Jira Service Management 3.6 or later, you can leverage zero downtime upgrades (ZDU). With ZDU, you can upgrade to any version of Jira Software or Jira Service Management that isn't upgrading from one platform release to another.

Rolling upgrades are now available in both Confluence and Bitbucket 7.9. With rolling upgrades, you can upgrade to the latest bug fix for whatever version you're running without ever having to take your environment down.

Unlike traditional upgrades, where you're only running your products on one node, when you deploy Data Center in a cluster-ready architecture, rolling upgrades enable you to upgrade your nodes one at a time. A load balancer distributes your teams' user traffic to the other active nodes in the cluster, so they're not affected by the upgrade. It also allows you and your IT team time to test the updates at your own pace, without compromising quality (or your weekends).

For Bitbucket and Confluence, the sleek, updated UI makes it easier for you to select the latest available bug fix and gives a clear view of the status of each of your nodes during the upgrade process. Upgrading has never been so simple.
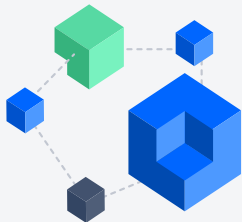
Get the flexibility you need to future-proof your organization with enterprise features and capabilities built to support teams at scale.

To learn more about Data Center contact your local Atlassian Solution Partner today.

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