

## Windows Server 2019 and SQL Server 2019

# //Upgrade Guide\_



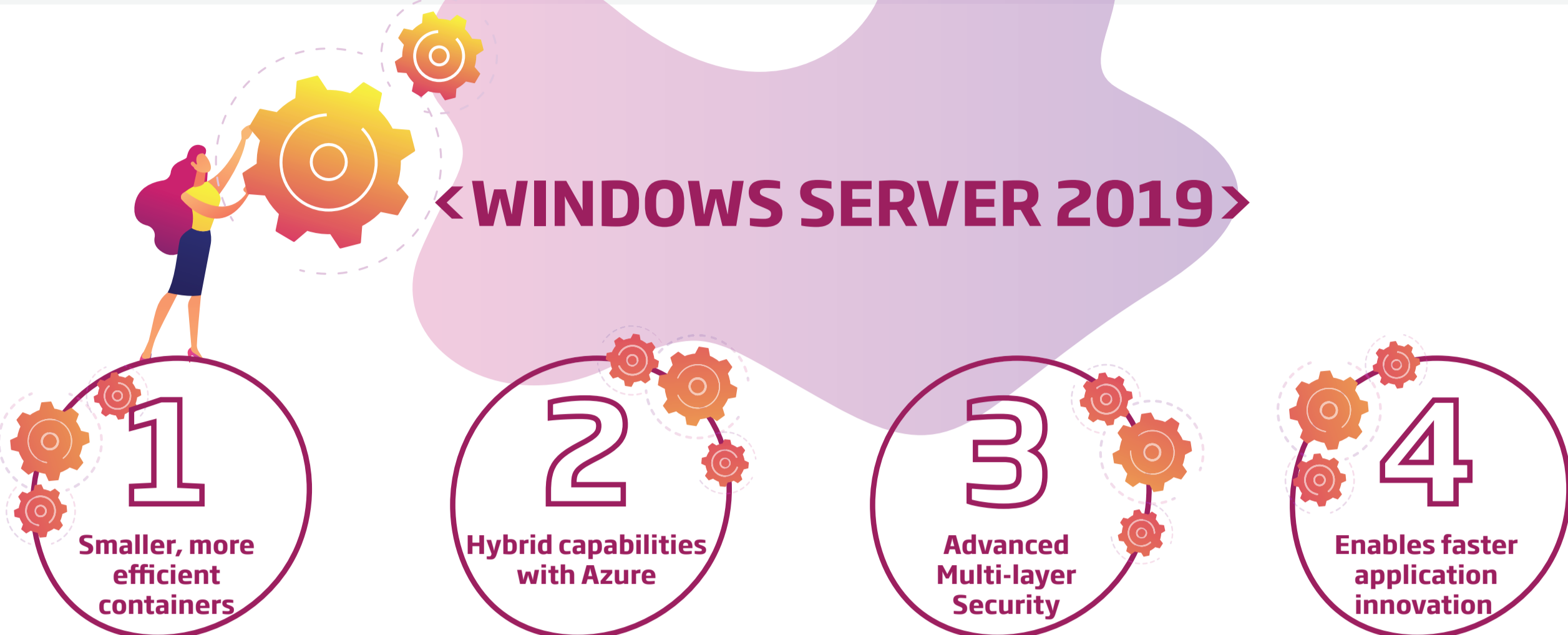
SQL Server 2019 and Windows Server 2019 are a complete re-working of everything businesses need from Windows Server and SQL Server.

In addition to being re-tooled to take better advantage of modern hardware, these new versions introduce performance and security enhancements as well as brand-new features.

Here is a breakdown of some of both operating systems' newest, most popular, and most useful features.

This information will shed light on some of what has changed and help to explain why upgrading older versions is so beneficial.

## <WINDOWS SERVER 2019>

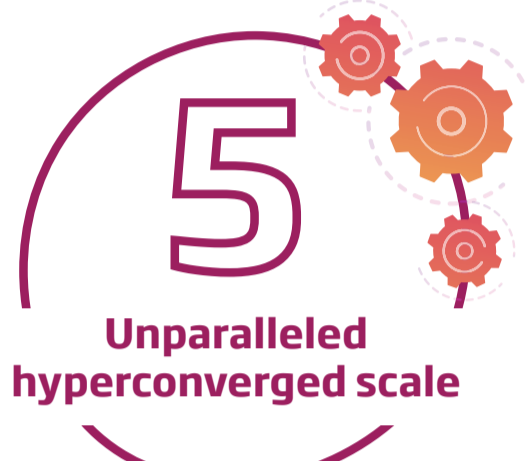


A smaller, leaner ServerCore image reduces virtual machine overhead by 50-80%, allowing organisations to run thinner and more efficient containers. This improves overall application operations without needing to spend money on additional hardware.

Windows Server 2019 lets you extend your datacentre into Azure to maximise your investments and gain new hybrid capabilities.

Harden your security capabilities by protecting your datacentre at the operating system level. By protecting administrator credentials, Windows Server 2019 makes sure that apps and system components have just enough access privileges to do what they need to, and no more.

Create and deploy cloud-native apps and modernise traditional apps using containers and microservices. Run Linux and Windows containers side by side to reduce complexity and allow developers to use standard tools like Open SSH, Curl, and Tar.



Get access to turnkey HCI solutions to evolve datacentres in smart, innovative ways that contribute toward greater efficiency, tighter security, and better overall performance.



Manage your server workloads from a central console no matter if they are running on-premises or in Azure. WAC provides a clear view of business infrastructure that facilitates informed decisions around how best to use it.



Further enhancements to Shielded VMs via Guarded Fabric mean virtual machines run in Server 2019 are more secure and resilient to attacks.



Policy updates can now take place without a need to reboot the server, eliminating the rationale for postponing policy updates.

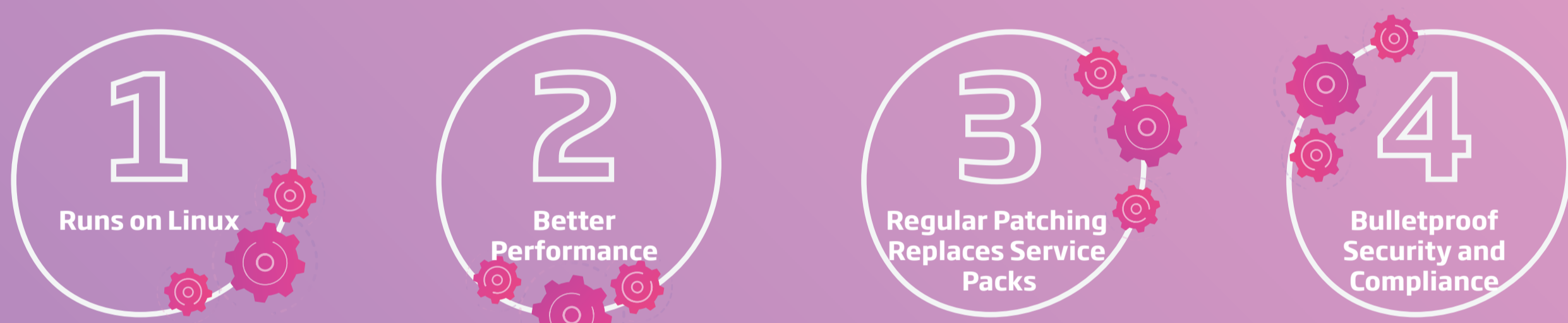


Microsoft's award-winning threat protection has been integrated into Windows Server 2019, providing administrators with data storage, network transport and security-integrity components to prevent compromises.



Instead of encrypting specific apps, Windows Server 2019 allows for network-wide encryption using software-defined networking.

## <SQL SERVER 2019>



SQL Server 2019 can be deployed on multiple Linux distributions including RedHat, SUSE and Ubuntu. Since SQL Server 2019 has the same underlying database engine on all supported platforms, many existing features and capabilities operate the same way on Linux.

SQL Server 2019's Intelligent Query Processing family of features makes queries and applications run faster than ever before, speeding up application responsiveness and enhances the end-user experience.

Instead of Service Packs, which take months to develop and deploy, SQL Server 2019 is updated every 30-60 days. Patches do everything from fixing issues to enhancing security to adding new functionalities and more.

Multi-layered security encrypts and protects data in all versions of SQL Server 2019, no matter whether it's moving or at rest. The Data Discovery and Classification tool ensures compliance with regional legislation including POPIA and GDPR.



Data visualisation tools inside SQL Server Reporting Services enables the generation of detailed, data-rich reports. Make them beautiful with Power BI Desktop.



Vulnerability Assessment tracks compliance of SQL Server instances and Azure SQL Database instances with recognised security best practices.



In SQL Server 2019, certificate management is integrated into the SQL Server Configuration Manager, simplifying common administrative tasks that were previously manual and laborious.



Evaluate data and make decisions on the go with SQL Server 2019's interactive dashboards and reports that work with iOS, Android, and Windows mobile devices.



SQL Server 2019 lets you leverage artificial intelligence and machine learning to consume, store, and analyse any type of data no matter if it's structured or unstructured.



Develop applications once, and deploy them anywhere thanks to a consistent experience no matter whether you're deploying on-premises, in the cloud, or at the edge.

## <UPGRADE OPTIONS>



Move all of your Windows Server and SQL Server 2019 instances into Azure for the easiest management, deployment, and payment options. Enjoy Azure's 99.9% uptime and exceptional flexibility and performance.



Azure Hybrid Benefit is a licensing option from Microsoft that provides more value from existing Windows Server and SQL Server licenses by allowing you to run Windows virtual machines (including SQL Server) on Azure at a reduced cost.



Purchase a license for your operating system directly via Tarsus On Demand and deploy it wherever you need it. We recommend hosting all of your servers in Azure, as that is the simplest and most cost-effective way to get all of the benefits SQL Server and Windows Server 2019 have to offer.

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## <WE'VE GOT YOU>

No matter how you'd like to go about upgrading your server operating systems to their latest versions, Tarsus On Demand can help.

Get in touch with us to find out more.

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