

# The migration process and advantages of Windows Server 2019

Bachelor's thesis

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# **Introduction.**

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# **State of the art.**

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# Hybrid cloud.

## Types of cloud solutions

- Private cloud
- Public cloud
- Community cloud
- Hybrid cloud

# Security.

Windows Defender ATP

Security with SDN

Shielded Virtual Machines

# Application platform.

Linux containers on Windows | Building Support for Kubernetes

Container improvements | Encrypted Networks

Network performance improvements for virtual workloads

Low Extra Delay Background Transport

High-performance SDN gateways

Persistent Memory support for Hyper-V VMs | New Deployment UI

Windows Admin Center extension for SDN

# Hyper-Converged Infrastructure.

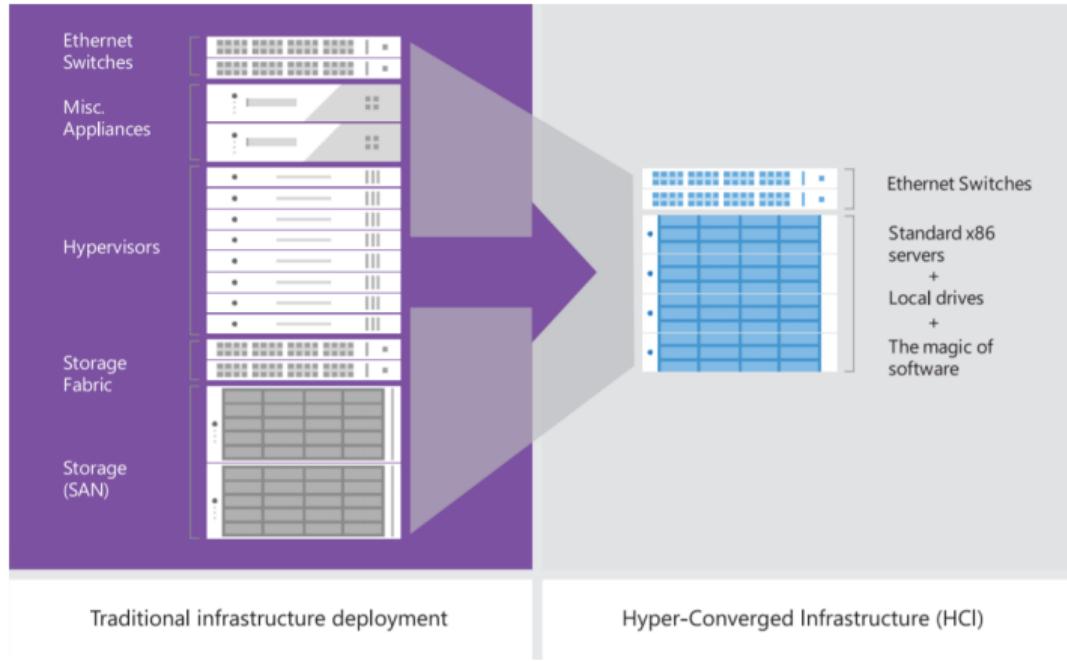


Figure: Adapted from Woolslayer, 2018.

# **Methodology.**

# In-place upgrade.

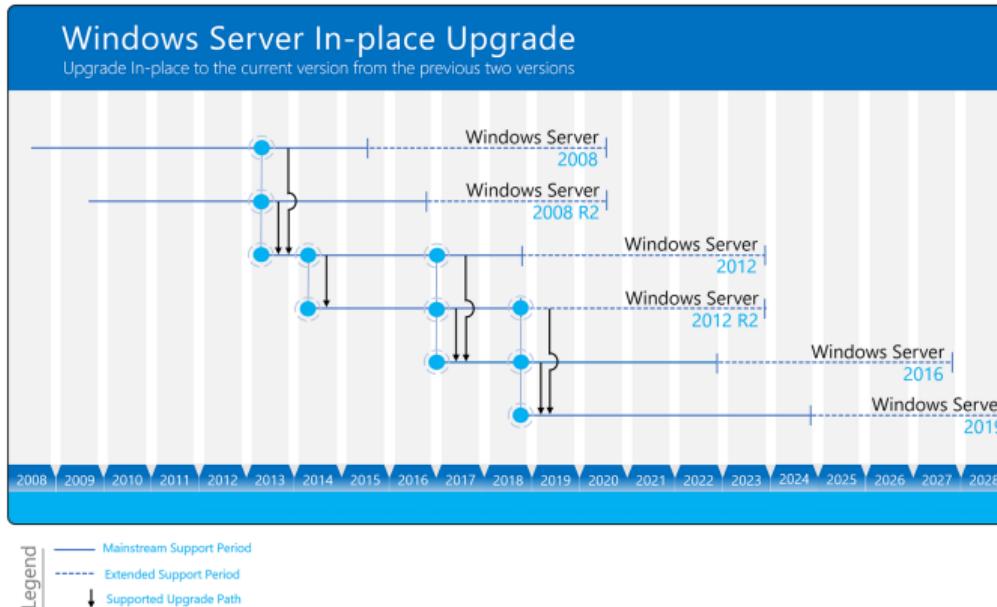


Figure: Adapted from Plett, 2018.

# Side-by-side migration.

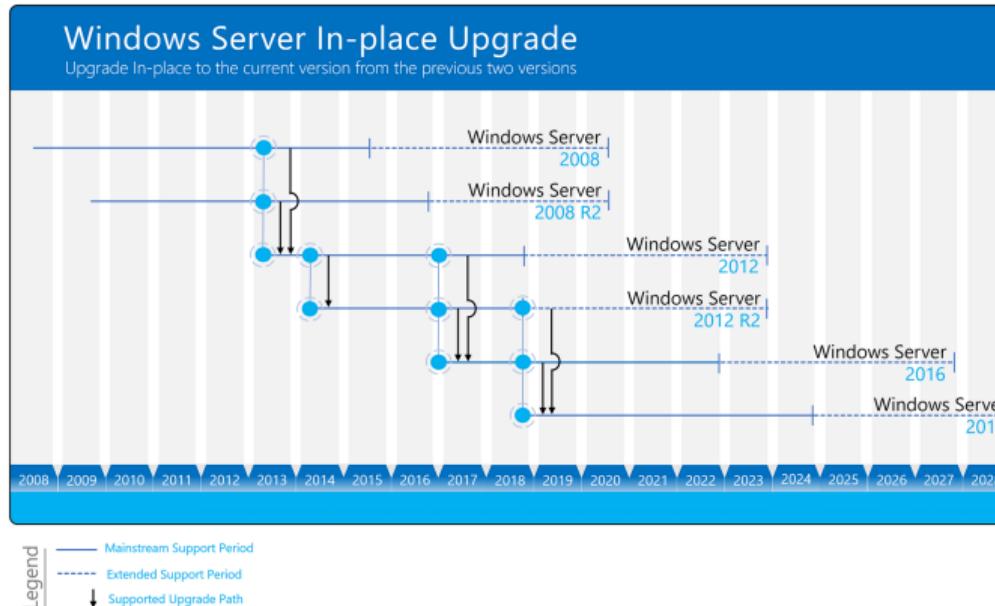


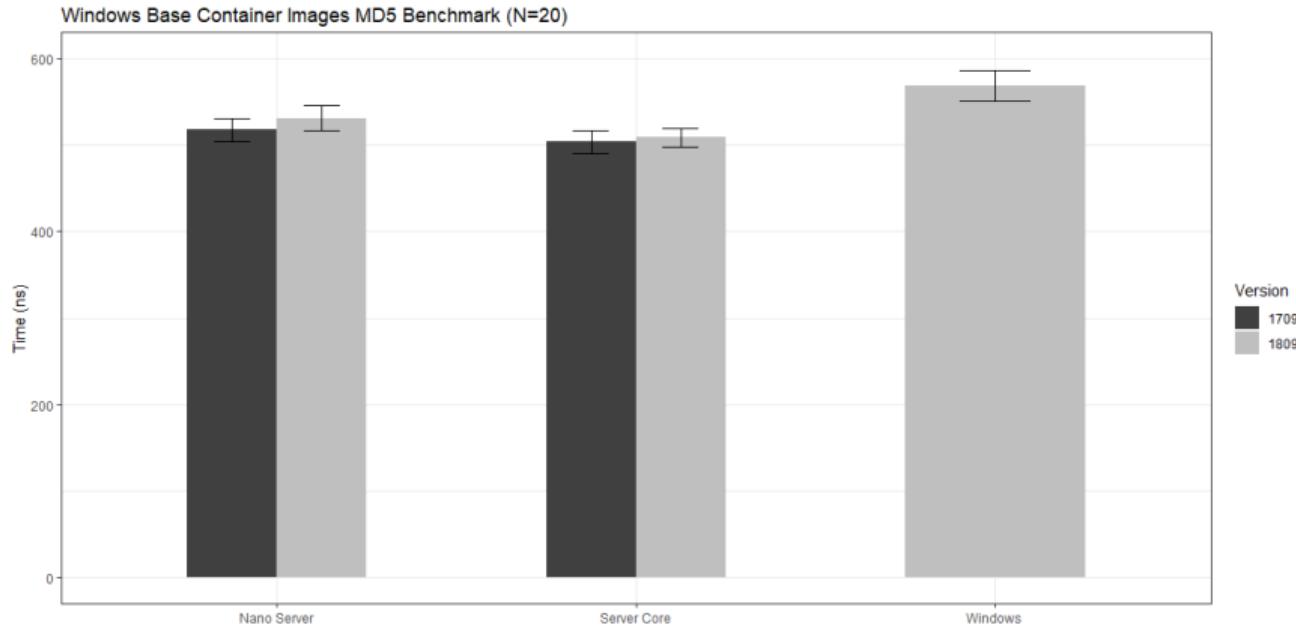
Figure: Adapted from Plett, 2018.

# Base container images.

	<b>Windows</b>	<b>Server Core</b>	<b>Nano Server</b>
Version 1809	9.9 GB	4.28 GB	347 MB
Version 1709		6.47 GB	339 MB

Table: Base container image size

# Base container images.



# **Future vision.**

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# Future vision.

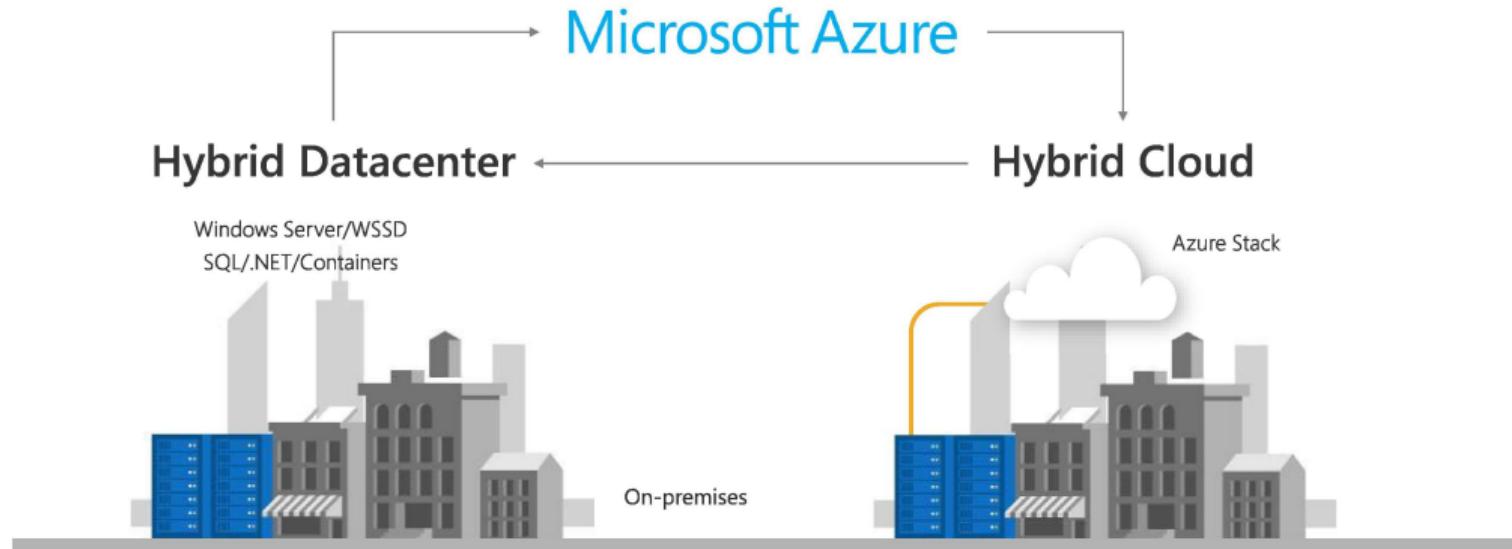


Figure: Adapted from A. Singh and Shah, 2019

# **Conclusion.**

# Questions?