

Maximizing Windows 11 Network Performance in a ConfigMgr Environment

- Johan Arwidmark
- Technical Fellow @ 2Pint Software and Mirolus
- Twitter @jarwidmark
- Microsoft MVP



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Technologies available

- Peer Cache
- BranchCache
- Background Intelligent Transfer Service (BITS)
- Delivery Optimization (DO)
- Low Extra Delay Background Transport (LEDBAT)
- Microsoft Connected Cache (MCC, f.k.a. DOINC)

- Third party solutions/extensions

Setting up a lab for testing

- Use Virtual Routers
- Windows Server
 - Routing and Remote Access Service
- Open Source
 - pfSense

Demo – Virtual Routers

Peer Cache

- Peer to peer technology
- ConfigMgr only
- Supports all Windows versions ConfigMgr support
- Supports all ConfigMgr package types
- Supports OS Deployment
- Uses ConfigMgr Client Cache
- Typically deployed in rings

Demo – Peer Cache

BranchCache

- Peer to peer technology
- Yes, there is no space between Branch and Cache :)
- Add BranchCache to WinPE for OSD support

Demo – BranchCache

BITS

- Bandwidth Control
- Typically configured via Group Policy
- Foreground and Background jobs

Demo – BITS

Delivery Optimization (DO)

- Peer to peer technology
- Windows 10 and Windows 11 only on the client side
- Windows Server 2019 and Windows Server 2022 support
- Distributed cache
- Can download from multiple sources, and from multiple types
- Requires Internet Access (unless using local cache server)

Demo - Delivery Optimization

Low Extra Delay Background Transport (LEDBAT)

- Hordes bandwidth
- Server sending technology – Works on all clients
- ConfigMgr Integration

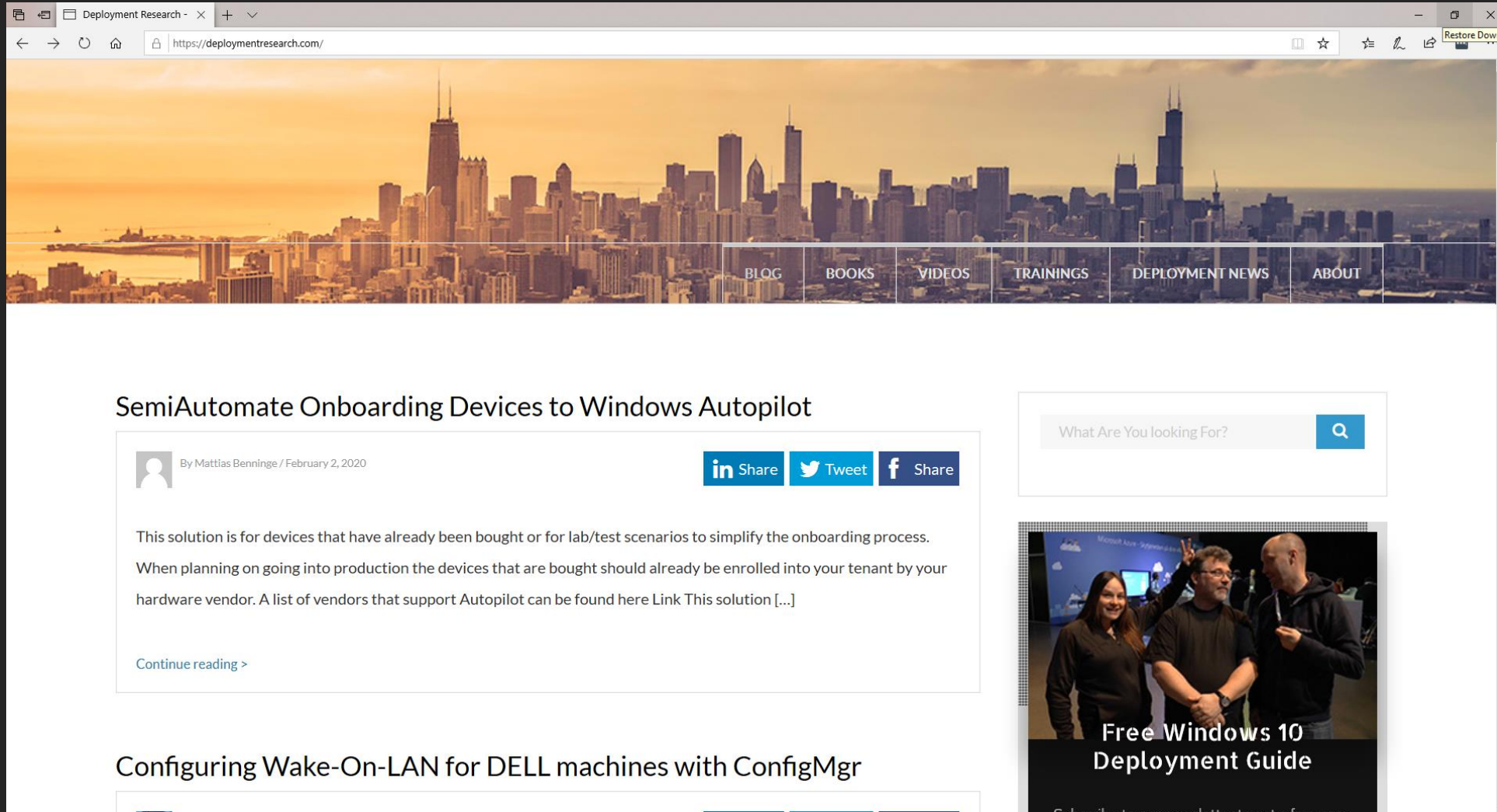
Demo - LEDBAT

Microsoft Connected Cache

- Available in ConfigMgr since version 1906
- Standalone version in private preview
 - Managed via Azure Portal
 - Container, hosted on Windows or Linux

Demo – Microsoft Connected Cache

Resources #1: deploymentresearch.com



The screenshot shows the deploymentresearch.com website. The browser's address bar displays the URL https://deploymentresearch.com/. The website features a large banner image of a city skyline at sunset. Below the banner is a navigation menu with links: BLOG, BOOKS, VIDEOS, TRAININGS, DEPLOYMENT NEWS, and ABOUT. The main content area displays an article titled "SemiAutomate Onboarding Devices to Windows Autopilot" by Mattias Benninge, dated February 2, 2020. The article text states: "This solution is for devices that have already been bought or for lab/test scenarios to simplify the onboarding process. When planning on going into production the devices that are bought should already be enrolled into your tenant by your hardware vendor. A list of vendors that support Autopilot can be found here Link This solution [...]". Below the text is a "Continue reading >" link. To the right of the article is a search bar with the placeholder text "What Are You looking For?". Below the search bar is a video thumbnail showing three people at a conference, with the text "Free Windows 10 Deployment Guide" overlaid. At the bottom of the video thumbnail, there is a link to "Subscribe to our newsletter to get a free copy."

Deployment Research - x + -

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SemiAutomate Onboarding Devices to Windows Autopilot

By Mattias Benninge / February 2, 2020

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This solution is for devices that have already been bought or for lab/test scenarios to simplify the onboarding process. When planning on going into production the devices that are bought should already be enrolled into your tenant by your hardware vendor. A list of vendors that support Autopilot can be found here Link This solution [...]

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