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Managing Your Datacenter with Microsoft System Center Configuration Manager

revacom
application packaging

Configuration Manager

SESSION OVERVIEW

- GETTING TO VNEXT AND SCCM 2012 R2 SP1
- DATACENTER MANAGEMENT OVERVIEW
- SOLUTIONS AVAILABLE TODAY THROUGH SYSTEM CENTER PRODUCTS
- COMING SOON: NEW AND IMPROVED DATACENTER MANAGEMENT FEATURES IN CONFIGURATION MANAGER

WORKING IN I.T. IS LIKE BEING MARRIED
VIA 9GAG.COM
WHEN IT'S PERFECT, THERE'S NO THANKS. WHEN IT GOES WRONG, BOY YOU ARE IN SHIT.
MEMEFUL.COM

GETTING TO SCCM 2012 R2 SP1 AND VNEXT

YOUR UPGRADE OPTIONS

CONFIGMGR 2012 AND CONFIGMGR 2012 R2 ARE TWO DIFFERENT PRODUCTS

IF YOU PLANNING ON ENABLING R2 FEATURES AS PART OF YOUR UPGRADE BY RUNNING THE R2 SERVICE PACK 1 UPDATE,

TWO FILES

SC2012_SP2_CONFIGMGR_SCEP.EXE – 762 MB

SC2012_R2_SP1_CONFIGMGR.EXE – 1.1 MB

NO SPECIAL EVAL MEDIA

INSTALLED EVAL SITE REMAINS EVAL

ACTIVATED SITE STAYS ACTIVATED

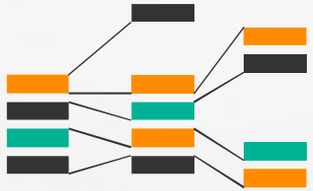
Starting Version	Desired End Version	Service Pack 2 Required	R2 Service Pack 1 Required
ConfigMgr 2012 RTM	ConfigMgr 2012 SP2	Yes	No
ConfigMgr 2012 RTM	ConfigMgr 2012 R2 SP1	Yes	Yes
ConfigMgr 2012 SP1	ConfigMgr 2012 SP2	Yes	No
ConfigMgr 2012 SP1	ConfigMgr 2012 R2 SP1	Yes	Yes
ConfigMgr 2012 R2	ConfigMgr 2012 R2 SP1	Yes	No
New install	ConfigMgr 2012 SP2	Yes	No
New Install	ConfigMgr 2012 R2 SP1	Yes	Yes

PLANNING TO UPGRADE CONFIGMGR

- PRE UPGRADING TASK
  - TEST UPGRADE A COPY OF THE THE SITE DATABASE
  - DISABLE MANAGEMENT POINT REPLICAS IF THEY EXIST
  - DOWNLOAD THE CONFIGMGR SP1 PREREQUISITE FILES
  - RUN THE SP1 PREREQUISITE CHECKER TOOL AND VERIFY THAT ALL PREREQUISITES ARE INSTALLED AND CONFIGURED CORRECTLY
  - SNAPSHOT THE SERVER
- UPGRADE
- POST UPGRADING TASKS
  - UPDATE BOOT IMAGES
  - RECONFIGURE MANAGEMENT POINT REPLICAS
  - UPDATE ANY CUSTOM CONFIGMGR CLIENT PACKAGES
  - RECONFIGURE WP 8.1 SUPPORT
  - VERIFY NDES
  - VERIFY TASK SEQUENCES ARE STILL WORKING

WHAT'S NEW IN CONFIGMGR 2012 SP2 AND R2 SP1

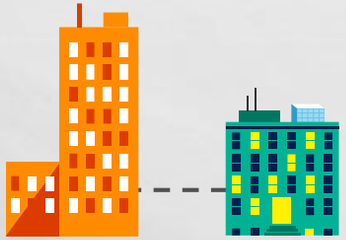
Faster virtual app (App-V) publishing at first logon for non-persistent VDI environments



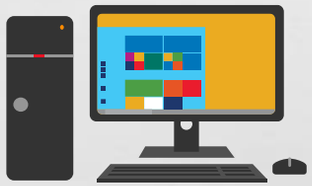
Increased hierarchy and primary standalone site scale

Improved scale and performance for pull distribution points (DP)

Hybrid parity features for ConfigMgr integrated with Microsoft Intune



Improved data transfer reliability for slow and latent networks



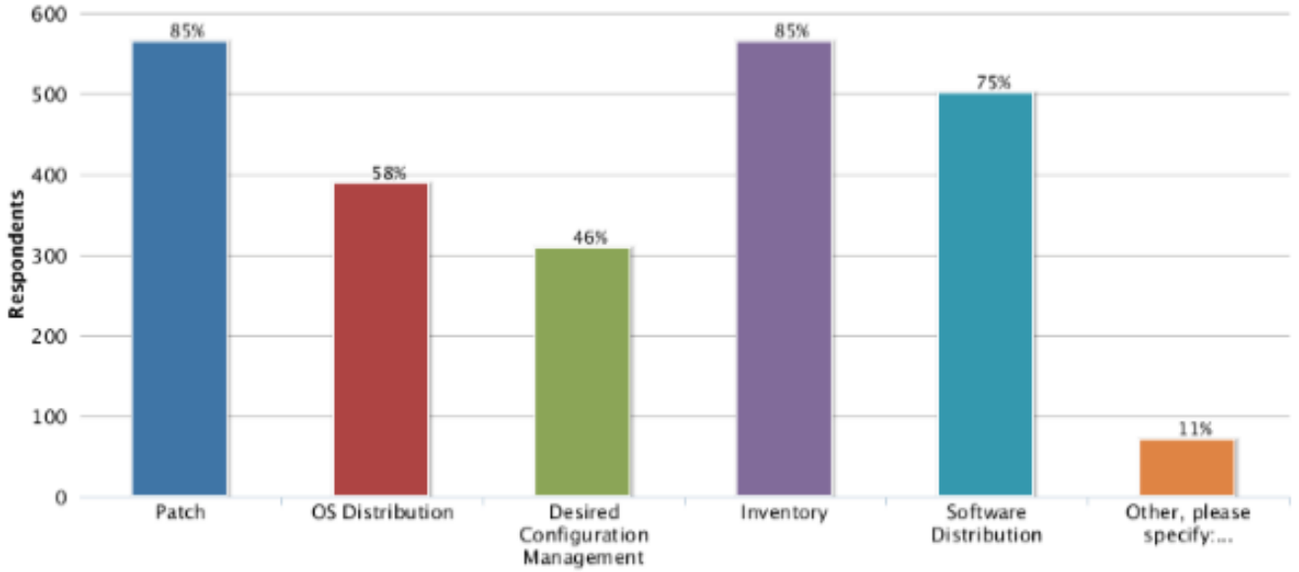
Full compatibility with existing features for Windows 10

Native support for SQL Server 2014

MANAGING DATACENTERS WITH THE SYSTEM CENTER TOOLS – TODAY AND A LITTLE INSIGHT TO THE FUTURE

WHAT WE'RE HEARING FROM YOU

What Configuration Manager functions do you use to manage servers?



Order	Answer	Responses	Percent
1	Patch	564	85%
2	OS Distribution	389	58%
3	Desired Configuration Management	309	46%
4	Inventory	565	85%
5	Software Distribution	501	75%
6	Other, please specify: [Open-ended answer]	70	11%

CONFIGURATION MANAGER AND DSC

- WE'RE INVESTIGATING INTEGRATION OPPORTUNITIES BETWEEN CONFIGMGR AND THE DSC PLATFORM FOR A FUTURE RELEASE
- WE'D LOVE TO HEAR FROM YOU TO UNDERSTAND YOUR USE CASES AND REQUIREMENTS
- AT THE END OF THIS SESSION, DROP YOUR CARD OFF IF YOU'RE INTERESTED IN TALKING MORE, AND WE'LL SETUP FOLLOW UP CONVERSATIONS

WHAT SOLUTION IS OPTIMIZED FOR MY SERVER CONFIGURATIONS?

- CONFIGURATION MANAGER (WITH DCM)
  - STABLE ENVIRONMENT
    - CHANGES OCCUR INFREQUENTLY
    - CHANGES CANNOT BREAK THINGS
    - PLANNED GROWTH
  - INDIVIDUALIZED SERVERS
    - SERVERS RETAINED FOR YEARS
    - UNIQUE CONFIGURATION FOR EACH SERVER
    - UNIQUE IDENTITY
  - SOLUTION MUST LIVE ON-PREMISES

- AZURE AUTOMATION (WITH DSC)
  - RAPIDLY CHANGING ENVIRONMENT
    - CONTINUOUS DEPLOYMENT
    - CHANGES THAT CAUSE BREAKS OCCUR AND ARE RESOLVED QUICKLY
    - SCALE UP / DOWN
  - SERVER ROLES
    - SERVERS COME AND GO
    - IDENTIFIED BY “ROLE”
    - NO UNIQUE IDENTITY

SOLUTION CLOUD BASED

COMPLIANCE SETTINGS

CHALLENGES

- KPI'S
  - SERVICE WINDOWS
  - YOUR BOSS
  - A VISIT FROM THE INQUISITION AKA DELOITTE, KPMG ETC
- COMPLIANCE SETTINGS
  - REBOOT PENDING MODE
  - MISSING UPDATES
- DIFFERENT SERVER ENVIRONMENTS
  - DMZ
- CONFIGURATION MANAGER INFRASTRUCTURE CHANGES IN LATEST SP
  - MANAGEMENT POINTS

DEMO

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SOFTWARE UPDATE MANAGEMENT

PATCHING SERVERS

- PLANNING
- COLLECTIONS
- MAINTENANCE WINDOWS
- TRACKING COMPLIANCE

DEMO

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A TYPICAL DATACENTER SCENARIO

IT OPERATIONS VISION

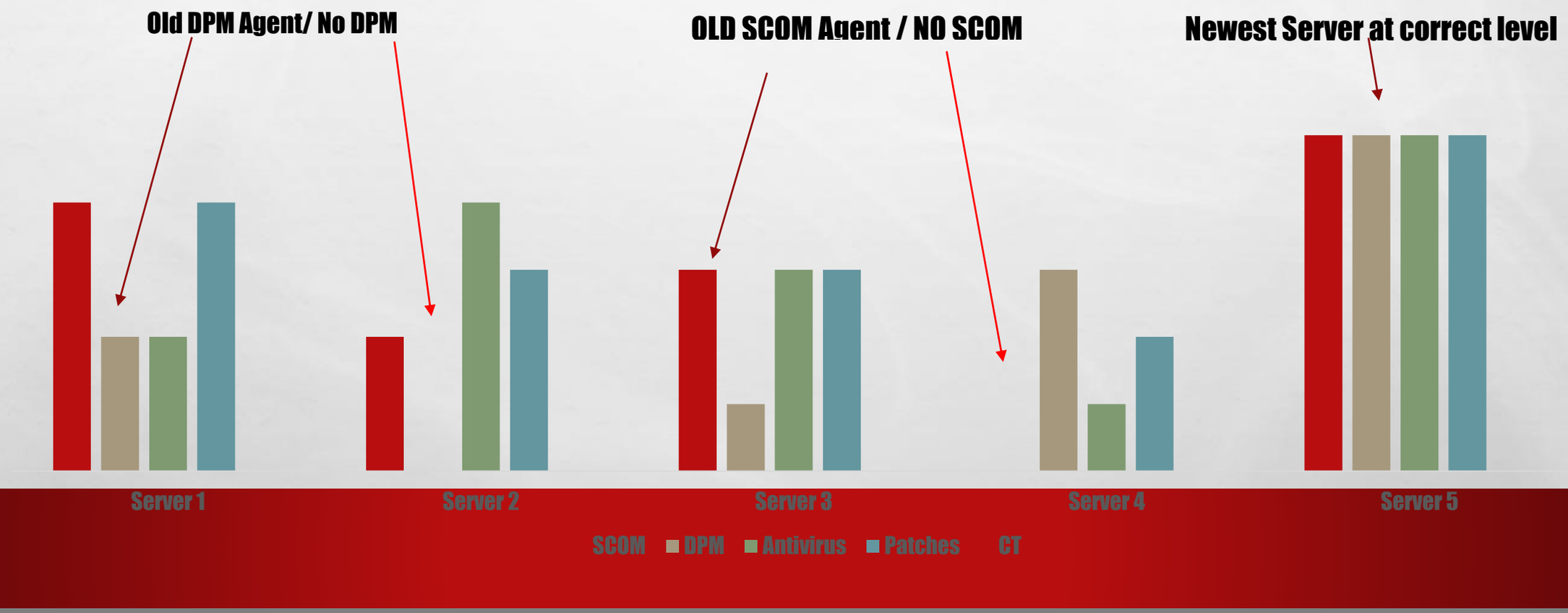
- STANDARDIZED – BETTER ECONOMY AND QUALITY
- AUTOMATE – SOLVE MORE TASKS
- SIMPLIFY – KEEP IT EASY
- DOCUMENT – MUST HAVE DOCUMENTATION
- ADD VALUE TO EXISTING INVESTMENTS –WE HAVE THE SYSTEM CENTER SUITE LET'S USE IT

DEFINE A STANDARD SERVER IN 2015?

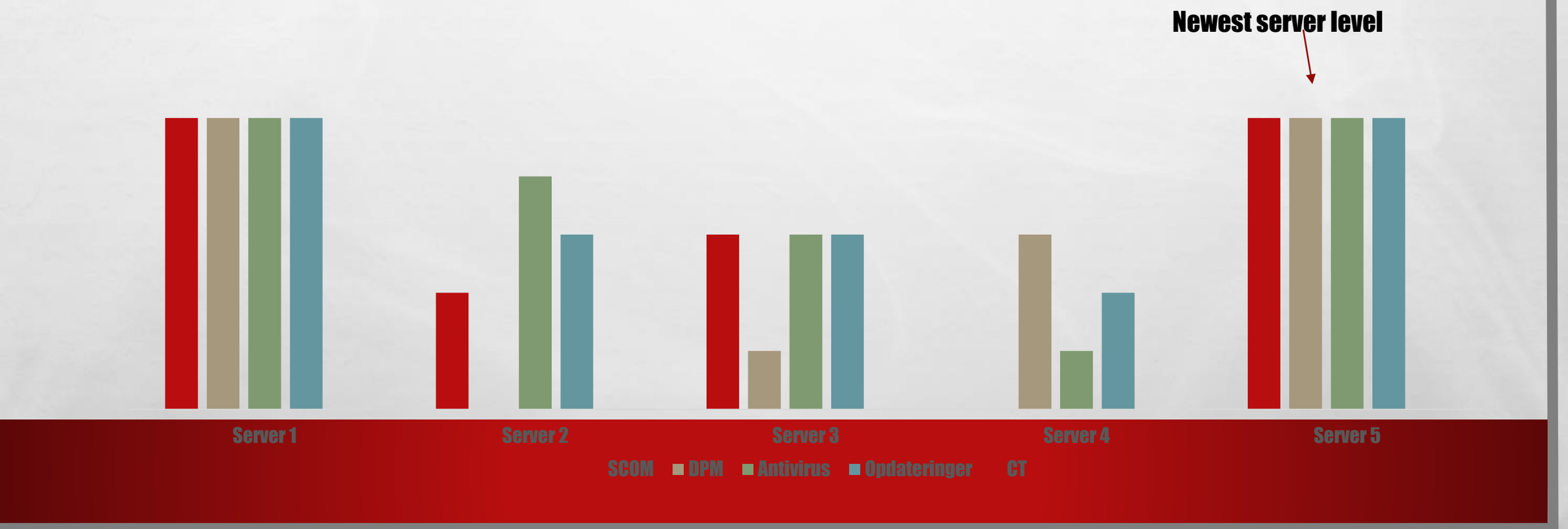
IT OPERERATION DELIVERABLES (BUSINESS/CUSTOMER EXPECTATIONS):

- OPERATIVE SYSTEM…
- SCCM / MANAGEMENT
- SCOM / MONITORERING
- DPM / BACKUP
- SYSTEM CENTER ENDPOINT PROTECTION
- SOFTWARE UPDATES
- SERVER TOOLS / DRIVERS

IS OPERATIONS IN CONTROL TODAY?



RAISE THE LEVEL TO A BASELINE, SERVER BY SERVER



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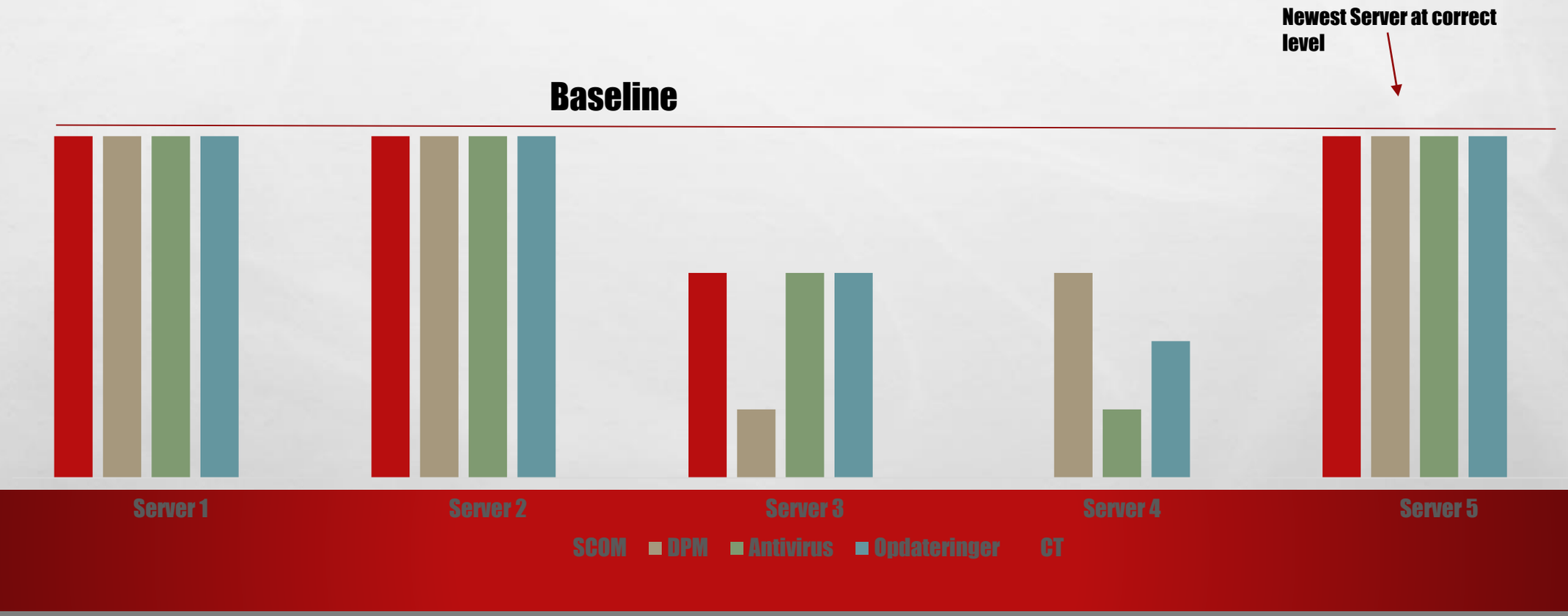

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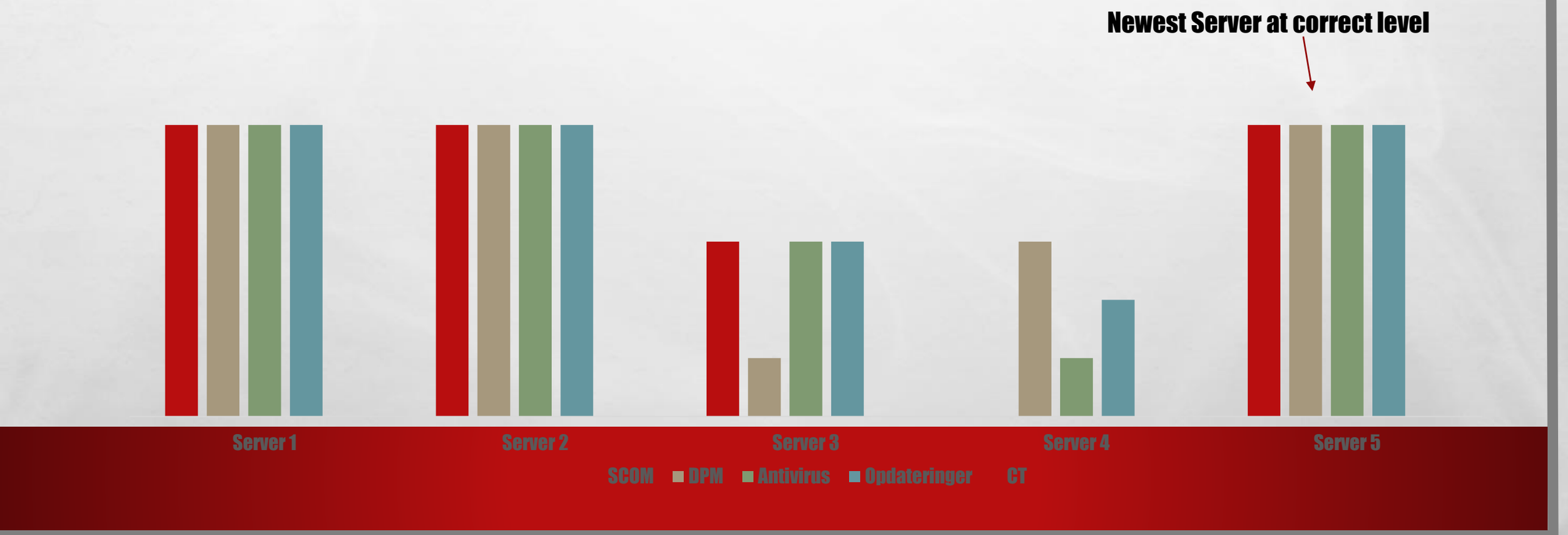
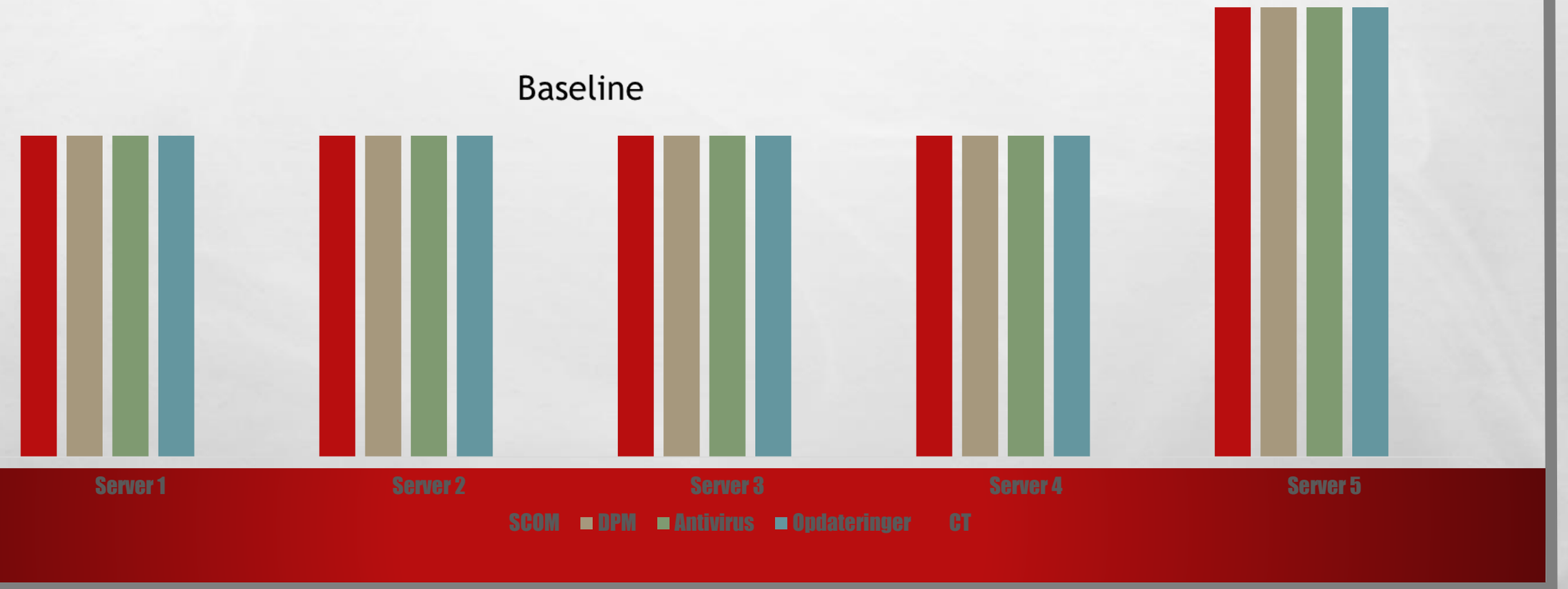


ALL SERVERS AT A BASELINE LEVEL, BASELINE DEFINED



DEMO

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CONFIGURATION MANAGER Q4 ROADMAP – DATACENTER MANAGEMENT

- CLUSTER AWARE MANAGEMENT
  - INTELLIGENCE IN TARGETING, SCHEDULING, AND MAINTENANCE WINDOWS WITH NODE STATE AWARENESS
- INVESTIGATING DSC INTEGRATION– CALL FOR FEEDBACK
- CONFIGMGR CLIENT DEPLOYMENT IN-CONSOLE MONITORING
  - HELPS IDENTIFY THE STATUS OF YOUR CLIENT DEPLOYMENTS, WHICH IS SUPER IMPORTANT ON SERVERS TO KNOW WHEN YOU'RE READY TO START DEPLOYING SERVER-MANAGEMENT SERVICES

Weitere Infos

DIGICOMP KURSE NEU

HTTPS://WWW.MICROSOFT.COM/LEARNING/EN-US/COURSE.ASPX?ID=20695A&LOCALE=EN-US

HTTPS://WWW.MICROSOFT.COM/LEARNING/EN-US/COURSE.ASPX?ID=20696A&LOCALE=EN-US

Danke

HERZLICHEN DANK

MIRKO COLEMBERG @MIRKOCOLEMBERG @CONFIGMGR_CH #CMCE_CH

BLOG.COLEMBERG.CH

BEWERTUNG DER SESSION: CONFIGMGR.CH

- XING: HTTPS://WWW.XING.COM/NET/CMCE
- FACEBOOK: HTTPS://WWW.FACEBOOK.COM/GROUPS/411231535670608/
- LINKEDIN: HTTP://WWW.LINKEDIN.COM
- TWITTER: HTTPS://TWITTER.COM/CONFIGMGR_CH

NÄCHSTER EVENT: DONNERSTAG 29. OKTOBER DIGICOMP ZÜRICH