

V tomto článku sa dozviete ako sa dá pomocou watchov nastaviť sledovanie dostupnosti a funkčnosti Exchange Servera. Prvý watch slúži na sledovanie bežiacích služieb (Service Running), tento watch sa nastavuje cez podmienku Service status a slúži na kontrolu či bežia všetky potrebné služby Exchange Servera.

Service status

Podmienka slúžiaca na vyhodnotenie stavu služby (Service). Jedna zo základných funkčností stavu programov.

Sledovať môžete či je zvolená služba v stave: Running, Not Running, Installed, Not Installed, Stopped, Not Stopped, Start Pending, Not Start Pending

Pre Exchange server sa sledujú tieto dve služby **MSExchangeIS, MSExchangeTransport** ako podmienku si zvolíte Running - bežiaci a v prípade že z akéhokoľvek dôvodu prestane jedna zo služieb fungovať budete nato upozornený prostredníctvom emailu alebo SMS.

G Watch Wizard		
Service	status	
Status Running	Name (display name optional) MSExchangelS	
Value from this Always Never	condition send to CM server	
Assess the state	of watch	
< Back N	ext >	Cancel

Obrázok: Sledovanie funkčnosti služieb pre Exchange Server



Watch Wizard

Conditions for "dostupnost Exchange servera"
1 Service Status "MSExchangelS" is "Running" Check on each watch state evaluation Each value will be sent to CM Server
Pridanie ďalšej podmienky pre vyhodnocovanie Watchu
Add Condition Delete Condition
State of watch is OK if all conditions are true FAIL - if at least one condition is false
Delay for FAIL state. (Useful for supressing short term FAIL state)
Show Advanced Options
Note: Watches are active from 5 min after the operating system start
< Back Next > Skip Actions >> Cancel

Obrázok: Pridanie ďalšej podmienky pre vyhodnocovanie Watchu - MSExchangeTransport

E-Mail Loop Test

E-Mail Loop Test je rozšírenou a kombinovanou obdobou podmienok POP3 a SMTP. Táto podmienka preverí odoslanie správy cez SMTP server a následne kontroluje prijatie správy na druhom serveri cez POP3 protokol. Nastavenie watchu pre E-Mail Loop Test je zobrazené na nasledujúcom obrázku.

Na obrázku vidno príklad pre testovanie odosielania zo servera smtp.company1.sk (krok 1), pomocou zadefinovaných adries odosielateľa, príjemcu a oneskorenia v sekundách po ktorom sa začne prijatie správy (krok 2) na pop3.company2.sk kontrolovať (krok 3). V kroku 4 si nastavte požadovanú periódu vykonávania testu.

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Exchange server

Zverejnené na Customer Monitor (https://www.customermonitor.sk)

Condition Definition

Available Functions E-Mail Loop Test Directory Accessible LoggedOn User SMTP Server [Port] Windows Running Time Operating System started Date SMTP Login] [SMTP Password] Date Simple Login user seccesses Day of Week send E-Mail From Send E-Mail To Time mailtester@company1.sk mailtester@company2.sk Wait sec] 30 Current IP POP3 Server [Port] Porg Server [Port] Pop3 company2.sk 110 Ping RoundTripTime [sinple Login] veccesses Ping Packet Loss SMTP SMTP Operation Test Period Unit POP3 User weccessful Value from this condition send to CM server @ Always NMP Never Assess the state of watch Environment Monitoring (http) Assess the state of watch		
Directory Accessible LoggedOn User Windows Running Time Operating System started Date Day of Week Time TimeRange Current IP Performance Counter Hardware Monitoring Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer Speed	Available Functions	E-Mail Loop Test
LoggedOn User Windows Running Time Operating System started Date Day of Week Time TimeRange Current IP Performance Counter Hardware Monitoring Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer Speed Transf	Directory Accessible	SMTP Server [Port]
Windows Running Time Authentication [SMTP Login] [SMTP Password] Date Simple Login user user Day of Week mailtester@company1.sk mailtester@company2.sk TimeRange Wait sec] 30 Current IP POP3 Server [Port] Performance Counter Hardware Monitoring POP3 Server [Port] Ping RoundTripTime pop3.company2.sk 110 nin 4 Value from this condition send to CM server Operation Test Period Unit 4 Value from this condition send to CM server © Always Never Never Environment Monitoring (smmp) Environment Monitoring (smmp) Assess the state of watch Detail Detail	LoggedOn User	smtp.company1.sk 25
Operating System started Date Date Simple Login Day of Week Imailtester@company1.sk Time Send E-Mail From Send E-Mail From Send E-Mail To mailtester@company1.sk mailtester@company2.sk Current IP POP3 Server Porg RoundTripTime Ping Pop3.company2.sk Ping Packet Loss Simple Login SMTP Simple Login POP3 Transfer Speed Transfer Speed Transfer Speed Transfer Speed Always SNMP Never Environment Monitoring (http) Assess the state of watch	Windows Running Time	Authentication [SMTR Login] [SMTR Password]
Date Day of Week Time Time TimeRange Current IP Performance Counter Hardware Monitoring Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (http) E-Mail Loop Test	Operating System started	
Day of Week Time Time Time TimeRange Current IP Performance Counter Hardware Monitoring Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (http) E-Mail Loop Test Test Period Unit Simple Login Never Environment Monitoring (http) E-Mail Loop Test Test Period Wate Correct Counter Assess the state of watch Correct Counter Correct Counter Correct Counter Correct Counter Correct Counter Correct Counter Correct Counter POP3 Server POP3 Login POP3 Login POP3 Login POP3 Login POP3 Login POP3 Login POP3 Login POP3 Login POP3 Login Correct Counter POP3 Login POP3 Login Correct Counter POP3 Login Correct Counter POP3 Login POP3 Login Correct Counter POP3 Login POP3	Date	
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Current IP Performance Counter Hardware Monitoring Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (smp) Environment Monitoring (http) E-Mail Loop Test	TimeRange	[Wait sec]
Performance Counter Hardware Monitoring Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test Transfer Speed Transfer Speed SNMP Environment Monitoring (snmp) Environment Monitoring (snmp)	Current IP	30
Hardware Monitoring Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (snmp) Environment Monitoring (http)	Performance Counter	POP3 Server [Port]
Ping Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	Hardware Monitoring	pop3.company2.sk 110 🥱
Ping RoundTripTime Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (http) E-Mail Loop Test	Ping	Authentication [POP3 Login] [POP3 Password]
Ping Packet Loss SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	Ping RoundTripTime	Simple Login V user
SMTP POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	Ping Packet Loss	Operation Test Devied Linit
POP3 HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	SMTP	Successful = 10 min = 1
HTTP, HTTPS Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	POP3	
Transfer Speed Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	HTTP, HTTPS	
Transfer speed of FTP SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	Transfer Speed	Value from this condition send to LM server
SNMP Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	Transfer speed of FTP	Always
Environment Monitoring (snmp) Environment Monitoring (http) E-Mail Loop Test	SNMP	O Never
Environment Monitoring (http) E-Mail Loop Test	Environment Monitoring (snmp)	
	Environment Monitoring (http)	Assess the state of watch
	E-Mail Loop Test	
UK		OK Cancel

Obrázok: Nastavenie watchu pre E-Mail Loop Test

V exchange 2003 až 2010 je potrebné zapnuť službu Exchange pop3, je potrebná voľba automatického štartu.

V Exchange 2007 po zapnutí služby Microsoft Exchnage 2007 musíte urobiť ešte ďalšie kroky ! Robia sa v Exchange PowerShell command (je to ikonka programu v rámci Exchange programovej skupiny)

1.Povoliť pre celý server Plaintext zadávanie mena, hesla Set-PopSettings -LoginType PlainTextLogin

(Inak budete mať chybovú hlášku : -ERR Command is not valid in this state.)

2. Pre usera povoliť prístup POP3

Set-CASMailbox -Identity **meno_boxu** -POPEnabled \$true

a môžeme ešte určiť, či to má byť default protokol, ale to už asi nie je nutné Set-CASMailbox -Identity **meno_boxu** -PopUseProtocolDefaults \$true



Free space on disk

Táto podmienka slúži na kontrolu voľného miesta na disku, v prípade Exchange servera sa používa na monitorovanie voľného miesta pre exchange datastory pretože v prípade ich naplnenia by prestali používateľom chodiť emaily.

Kliknutím na ikonku disku v kroku 1 vylistujte v zozname diskov - vyberiete si datastor exchange servera. V kroku 2 nastavíte vhodný operátor a hodnotu k jednotke to znamená minimálne voľné miesto na disku, ktoré keď sa zmenší watch prejde do stavu Fail a vy budete o nedostatku voľného miesta informovaný emailom alebo SMS správou.

Condition Definition	
Available Functions	Free Space On Disk
Watch State Network Presented Memory Usage CPU Usage Disk Activity Disk Queue Length Network Adapter Usage Internet IP Traffic Internet IP Traffic Internet IP Transferred Data Free Space On Disk Exists File File Size Files Size in Directory Exists Directory Directory Accessible LoggedOn User Windows Running Time Operating System started Date Day of Week Time TimeRange Current IP	Drive 1 0 2 Free Space Unit 3 C: • 5 2 • 1 2 • Value from this condition send to CM server • 1 2 • • • If value changes more than 1 2 • • • • Always • Never • • • • • Assess the state of watch • • • • • •
	OK Cancel

Obrázok: Nastavenie sledovania voľného miesta na disku

Vyhodnocovanie týchto watchov sa dá pozrieť aj na CM portáli v časti *CM IT monitoring -> Zobrazenia -> Watches online monitoring.* V tejto časti môžete aj vzdialene editovať jednotlivé watche a meniť parametre pre vyhodnocovanie podľa potreby.



CD	E	SK	Admin	zóna CM IT m	onitoring	CDESK				Slovensk	y Kredit	Manual Operá	tor: Meno Op	erátora 🗸
τ.e	Ze	obrazenia C	😼 w	atches (Online	monitoring	3)								
Oblibené		Počítače	Spoločnosť		Počitač & Umiestnenie		Zoradit pod	n CNHD 💌	Zoradit' Wate	thes podfa	Rezvitu 💌			
1		Online informácie	Meno Watch	u exchange	Current status		Zoradiť ako	Vzostupne 💌	Zoradit' Wate	thes also	Vasstupne 💌	Hadat		
Upscamenia		Walches	Operator		Zobrazif	Pod sebou	I True III I	False 🗹 Unknown	Vypnutë w	vatche 🗆 Lei	n online PC			
1.20		Internet bandwidth monitor	Zoznam w	stohes (zobrazené 2 po	iložky]							Report z porúc	h Watches	
Colorazienia Zobrazienia		Zóny Zmeny na počítači	Stav Me	10	Hodeota		Posledná zmena stavu	Podmienky k urče	eniu stavu	<u>CILID</u> počitača	Meno počitača v	Uniestaenie	Posl. online spojenie	
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Obrázok: Výsledné nastavenie všetkých troch watchov na sledovanie dostupnosti Exchange servera

HTTP, HTTPS

Touto podmienkou môžete sledovať funkčnosť požadovanej HTTP, alebo HTTPS lokality pomocou http, alebo https protokolu, v našom prípade budeme sledovať dostupnosť stránky pre **web acces Exchange servera.** Postup nastavenia je znázornený na nasledujúcich obrázkoch.



Watch Wizard

Add condition for "dostupnost web acces"

Performance	Health of systems	Security
Memory usage	 EventLog Events Count (for Windows Vista and newer) 	Running user process
 Disk activity Disk read / write queue length Network adapter usage Process usage (memory, CPU) Performance counters Transfered speed in LAN, Harddrives Transfered speed of FTP Internet IP trafic (transfer speed) Internet IP trafic (transfer speed) 	 Free space on disk. Service status Loaded Device Driver Running process E-Mail looping test (SMTP -> POP3) Ping RTT (response time) Ping packet loss File size Files size in directory Eiles count in directory 	 Unauthorized admin process LoggedOn user Time limitations Date Day of Week Time Time Range Custom conditions SNMP CHAT
Preddefined performance templates Check accessibility	 Start / Restart DS Windows running time 	 CHAT Variable CHAT Numeric Variable
Ping SMTP POP3 Exists file Exists directory Accessible directory Current IP Network presented (active any network adapter)	 Hardware Monitoring HW monitoring of server (HP, DELL, FUJITSU) LINUX monitoring Environment Monitoring (snmp) Environment Monitoring (http) Preddefined health templates 	CHAT Vector Variable Use state of another Watch Watch state
< Back Next >		Cancel

Obrázok: Podmienka pre sledovanie HTTP, HTTPS

Skopírujete si adresu pre web acces.



Exchange server

Zverejnené na Customer Monitor (https://www.customermonitor.sk)

Outlook Web App - Mozilla Firefox		
Súbor Upraviť Zobraziť História Záložky Nástroje Pomocník		
Outlook Web App +		
E https://outlook.vasadomena.sk/owa/auth/logon.aspx?replaceCurrent=1& > Scoogle	۶ م	ł
Microsoft*		
Outlook web App		
Zebeznočenie (zebreziť serustlenie)		
Zabezpecenie (Zobrazit vysvetienie)		
 Toto je verejný alebo zdieľaný počítač Toto je súkromný počítač 		
Použite odľahčenú verziu Outlook Web App		
Doména\meno používateľa:		
Hesio:		
Prihlásiť sa		
© 2010 Microsoft Corporation. Všetky práva vyhradené.		
		_

Obrázok: Adresa pre web acces, ktorú skopírujete do nastavení watchu

Do okna Url nakopírujete adresu pre web acces a kliknete na tlačidlo zobrazené na nasledujúcom obrázku pre nastavenie sledovanej časti stránky pre web acces.



Watch Wizard HTTP, HTTPS Url https://outlook.vasadomena.sk/owa/ [Required string in the server response [Http User]	/auth/logon.aspx?replaceCurrent=1&url=1 e] [Http Password]	https%3a%2f%2foutlook.seal.sk%2f0wa%2f
Allowed compression All supported by C-Monitor - [Proxy Server]	Request ver. 1.0 - [Port]	Tu si vyberiete,
[Proxy User] [Retries] [Timeout in sec] Operation Test Period Unit	[Proxy Password]	ktorá časť sa má sledovať a vyhodnocovať
Value from this condition send Always Never Assess the state of watch	to CM server	
< Back Next >		Cancel

Obrázok: Do nastavenia podmienky vložíte adresu web accesu Exchange servera

Zvolíte si časť, ktorej zobrazovanie sa bude sledovať, odporúčame si zvoliť časť kde sa zadáva napr. meno alebo heslo.



Watch Wizard

HTTP, HTTPS

Required string i	G Select Text Line from HTTP server response	
[Http User]	Select the row containing Required String	
Allowed compres All supported by		Odporúčame vybrať jednu
Proxy Server]		možnosti napr. sledovanie zobrazenia požiadavky na
Proxy User]		vloženie hesla alebo mena
Retries] [Tim	I nowrap> <label for="username">Domain\user name:</label> I plass="txtpad"> <input <="" class="txt" id="username" name="username" td="" type="text"/> <td>>04</td>	>04
Operation	I nowrap> <label for="password">Password:</label>	
Value from th	I class="txtpad"> <input class<="" id="password" name="password" td="" type="password"/> <td>="txt" onfocus="g_fFcs=0"></td>	="txt" onfocus="g_fFcs=0">
Always		-
Never		
Assess the st	Save Copy Find Find Next	OK Cancel

Obrázok: Vyberiete si text, ktorého zobrazenie sa má kontrolovať, odporúčame časť kde sa zobrazuje výzva na zadanie mena alebo hesla

Zadáte podmienku pre vyhodnocovanie a časový interval testovania dostupnosti.



Watch Wizard

HTTP, HTTPS

<input id="</th"/> <th>"password" name="passwor</th> <th>d" type="password" class="txt" onfocus="g_fFcs</th> <th>=0''></th>	"password" name="passwor	d" type="password" class="txt" onfocus="g_fFcs	=0''>
Http User]	[Http Password]		
Illowed compression	Request ver.		
Proxy Server]	• 1.0	[Port]	
Proxy User)	[Proxy Password]		
Pperation Test Period Successful	i Unit min v		
 Always 	I SEND TO CW SELAEL		
Never			

Obrázok: Nastavíte podmienky pre vyhodnocovanie a kliknete na tlačidlo next







Odkazy

- [1] https://www.customermonitor.sk/sites/default/files/service%20runing.png
- [2] https://www.customermonitor.sk/sites/default/files/service%20runing2.png
- [3] https://www.customermonitor.sk/sites/default/files/E-Mail%20Loop%20Test_0.png
- [4] https://www.customermonitor.sk/sites/default/files/free%20space%20on%20disk_0.png
- [5] https://www.customermonitor.sk/sites/default/files/watche%20final.png
- [6] https://www.customermonitor.sk/sites/default/files/web%20acces%201.png
- [7] https://www.customermonitor.sk/sites/default/files/web%20acces%202.png
- [8] https://www.customermonitor.sk/sites/default/files/web%20acces%203.png
- [9] https://www.customermonitor.sk/sites/default/files/web%20acces%204.png
- [10] https://www.customermonitor.sk/sites/default/files/web%20acces%205.png