

Exchange 2010 Throttling Richtlinie

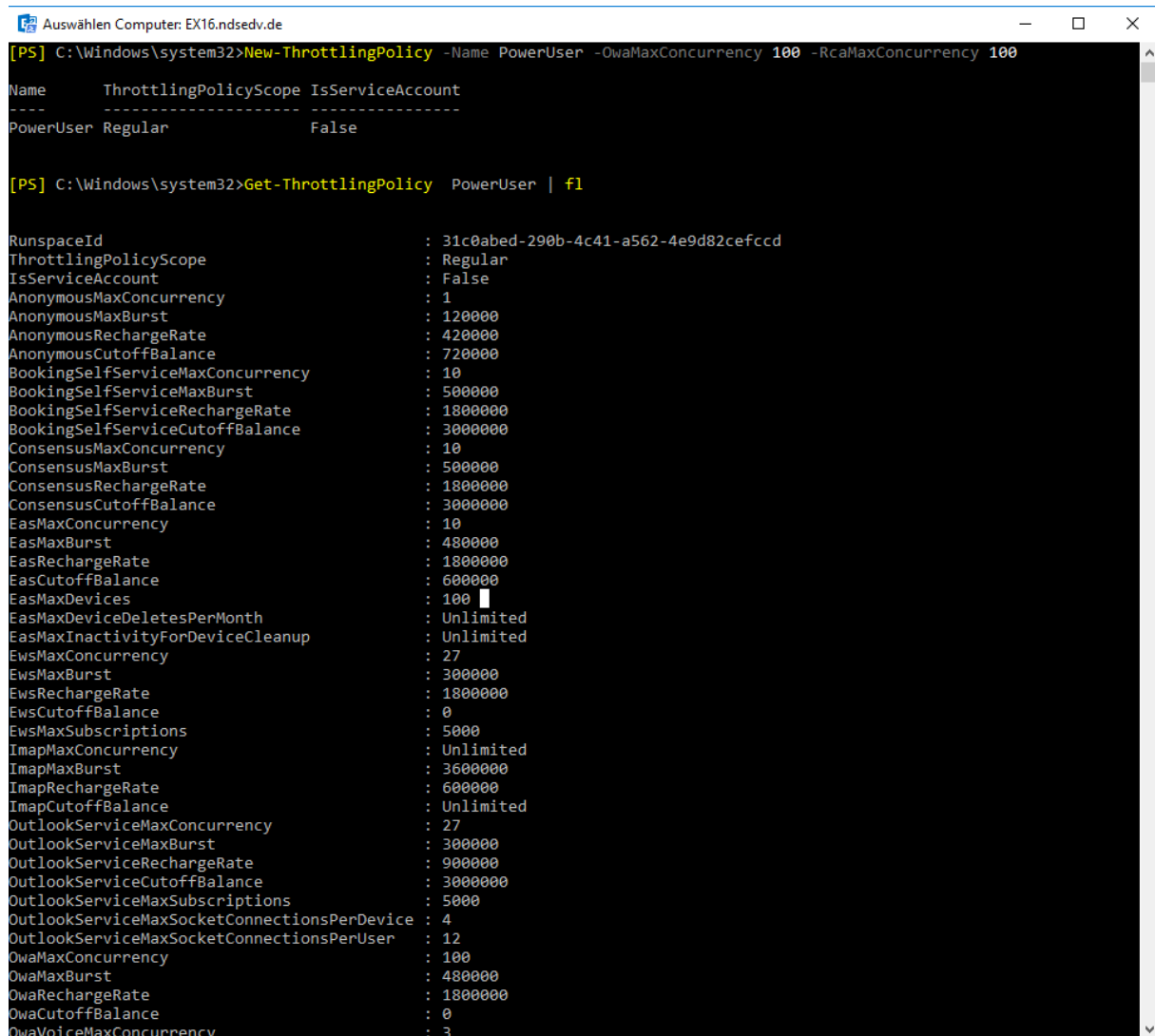
Throttling (Drosselung) Richtlinien wurden das erste Mal in Exchange 2007 eingesetzt und bekannt als RPC Client Drosselung, seitdem gab es unheimlich viele Verbesserung. Der Pool an Richtlinien wird genutzt um die Leistung eines Exchange zu verbessern. Im Fokus steht die Überwachung und Kontrolle der Leistung.

Sinn und Zweck ist es den Exchange Server vor Überlastung zu schützen und die Ressourcen optimal zu verteilen bzw. anzuwenden.

Erstellen einer neuen Richtlinie mit Erhöhung der gleichzeitigen Verbindungen:

```
New-ThrottlingPolicy -Name PowerUser -OwaMaxConcurrency 100 -RcaMaxConcurrency 100
```

```
Get-ThrottlingPolicy PowerUser | fl
```



```
Auswählen Computer: EX16.ndsedv.de
[PS] C:\Windows\system32>New-ThrottlingPolicy -Name PowerUser -OwaMaxConcurrency 100 -RcaMaxConcurrency 100
Name      ThrottlingPolicyScope IsServiceAccount
----      -
PowerUser Regular                False

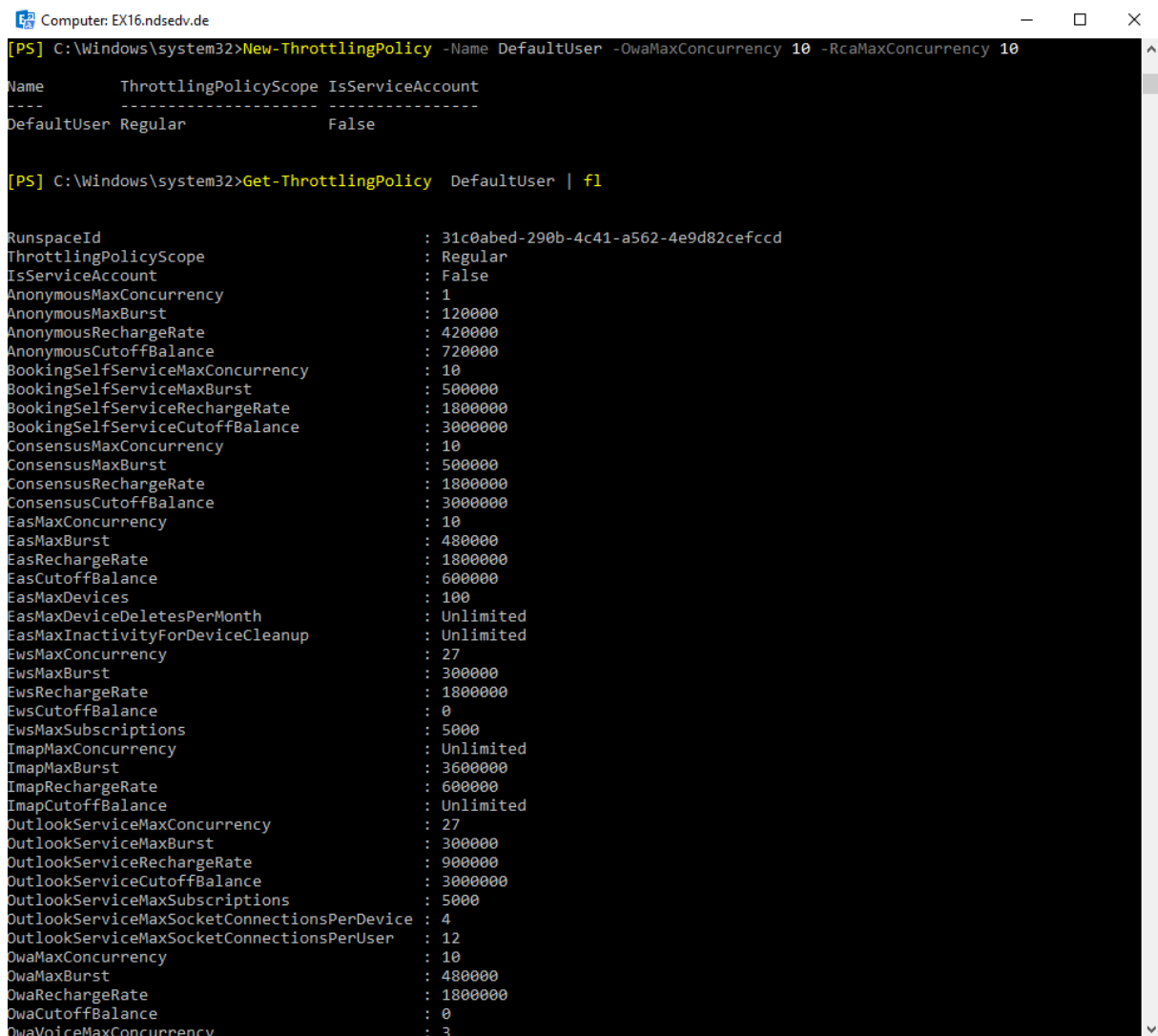
[PS] C:\Windows\system32>Get-ThrottlingPolicy PowerUser | fl
RunspaceId           : 31c0abed-290b-4c41-a562-4e9d82cefccd
ThrottlingPolicyScope : Regular
IsServiceAccount     : False
AnonymousMaxConcurrency : 1
AnonymousMaxBurst    : 120000
AnonymousRechargeRate : 420000
AnonymousCutoffBalance : 720000
BookingSelfServiceMaxConcurrency : 10
BookingSelfServiceMaxBurst : 500000
BookingSelfServiceRechargeRate : 1800000
BookingSelfServiceCutoffBalance : 3000000
ConsensusMaxConcurrency : 10
ConsensusMaxBurst    : 500000
ConsensusRechargeRate : 1800000
ConsensusCutoffBalance : 3000000
EasMaxConcurrency    : 10
EasMaxBurst          : 480000
EasRechargeRate      : 1800000
EasCutoffBalance     : 600000
EasMaxDevices        : 100
EasMaxDeviceDeletesPerMonth : Unlimited
EasMaxInactivityForDeviceCleanup : Unlimited
EwsMaxConcurrency    : 27
EwsMaxBurst          : 300000
EwsRechargeRate      : 1800000
EwsCutoffBalance     : 0
EwsMaxSubscriptions  : 5000
ImapMaxConcurrency   : Unlimited
ImapMaxBurst         : 3600000
ImapRechargeRate     : 600000
ImapCutoffBalance    : Unlimited
OutlookServiceMaxConcurrency : 27
OutlookServiceMaxBurst : 300000
OutlookServiceRechargeRate : 900000
OutlookServiceCutoffBalance : 3000000
OutlookServiceMaxSubscriptions : 5000
OutlookServiceMaxSocketConnectionsPerDevice : 4
OutlookServiceMaxSocketConnectionsPerUser : 12
OwaMaxConcurrency    : 100
OwaMaxBurst          : 480000
OwaRechargeRate      : 1800000
OwaCutoffBalance     : 0
OwaVoiceMaxConcurrency : 3
```

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Erstellen einer neuen Richtlinie mit Senkung der gleichzeitigen Verbindungen:

```
New-ThrottlingPolicy -Name DefaultUser -OwaMaxConcurrency 10 -RcaMaxConcurrency 10
```

```
Get-ThrottlingPolicy DefaultUser | fl
```



The screenshot shows a PowerShell console window with the following content:

```
Computer: EX16.ndsedv.de
[PS] C:\Windows\system32>New-ThrottlingPolicy -Name DefaultUser -OwaMaxConcurrency 10 -RcaMaxConcurrency 10

Name           ThrottlingPolicyScope IsServiceAccount
-----
DefaultUser    Regular                False

[PS] C:\Windows\system32>Get-ThrottlingPolicy DefaultUser | fl

RunspaceId           : 31c0abed-290b-4c41-a562-4e9d82cefccd
ThrottlingPolicyScope : Regular
IsServiceAccount     : False
AnonymousMaxConcurrency : 1
AnonymousMaxBurst    : 120000
AnonymousRechargeRate : 420000
AnonymousCutoffBalance : 720000
BookingSelfServiceMaxConcurrency : 10
BookingSelfServiceMaxBurst : 500000
BookingSelfServiceRechargeRate : 1800000
BookingSelfServiceCutoffBalance : 3000000
ConsensusMaxConcurrency : 10
ConsensusMaxBurst    : 500000
ConsensusRechargeRate : 1800000
ConsensusCutoffBalance : 3000000
EasMaxConcurrency    : 10
EasMaxBurst          : 480000
EasRechargeRate      : 1800000
EasCutoffBalance     : 600000
EasMaxDevices        : 100
EasMaxDeviceDeletesPerMonth : Unlimited
EasMaxInactivityForDeviceCleanup : Unlimited
EwsMaxConcurrency    : 27
EwsMaxBurst          : 300000
EwsRechargeRate      : 1800000
EwsCutoffBalance     : 0
EwsMaxSubscriptions  : 5000
ImapMaxConcurrency   : Unlimited
ImapMaxBurst         : 3600000
ImapRechargeRate     : 600000
ImapCutoffBalance    : Unlimited
OutlookServiceMaxConcurrency : 27
OutlookServiceMaxBurst : 300000
OutlookServiceRechargeRate : 900000
OutlookServiceCutoffBalance : 3000000
OutlookServiceMaxSubscriptions : 5000
OutlookServiceMaxSocketConnectionsPerDevice : 4
OutlookServiceMaxSocketConnectionsPerUser : 12
OwaMaxConcurrency    : 10
OwaMaxBurst          : 480000
OwaRechargeRate      : 1800000
OwaCutoffBalance     : 0
OwaVoiceMaxConcurrency : 3
```

Die Richtlinie anwenden:

```
Set-Mailbox NDS -ThrottlingPolicy "DefaultUser"
```

Standard Richtlinie abfragen:

```
Get-ThrottlingPolicy default* | fl eas*
```

```
Get-Mailbox NDS | ft Name,ThrottlingPolicy
```

Maximal 2 Geräte erlauben:

```
Set-ThrottlingPolicy DefaultUser -EasMaxDevices 2
```

Die Verbindungsgeschwindigkeit anpassen/aufheben:

```
Get-ThrottlingPolicy | fl
```

```
New-ThrottlingPolicy Speed
```

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Set-ThrottlingPolicy Speed -RCAMaxConcurrency \$null -EWSMaxConcurrency \$null -EWSMaxSubscriptions \$null -CPAMaxConcurrency \$null

Für einen Exchange 2013 oder 2016 lautet die Syntax wie folgt:

Set-ThrottlingPolicy Speed -RCAMaxConcurrency Unlimited -EWSMaxConcurrency Unlimited -EWSMaxSubscriptions Unlimited

User kann an 30 Empfänger Nachrichten versenden pro Minute aber nur 1:

New-ThrottlingPolicy -Name LimitMessagesSent -RecipientRateLimit 30 -MessageRateLimit 1

Die Richtlinie Anwenden:

Set-Mailbox -Identity NDS -ThrottlingPolicy LimitMessagesSent

Eine Drosselung für einen Migrations Account aufheben:

New-ThrottlingPolicy MIGPolicy

Set-ThrottlingPolicy MIGPolicy -RCAMaxConcurrency \$null -RCAPercentTimeInAD \$null -RCAPercentTimeInCAS \$null -RCAPercentTimeInMailboxRPC \$null -EWSMaxConcurrency \$null -EWSPercentTimeInAD \$null -EWSPercentTimeInCAS \$null -EWSPercentTimeInMailboxRPC \$null -EWSMaxSubscriptions \$null -EWSFastSearchTimeoutInSeconds \$null -EWSFindCountLimit \$null -CPAMaxConcurrency \$null -CPAPercentTimeInCAS \$null -CPAPercentTimeInMailboxRPC \$null -CPUStartPercent \$null

Set-Mailbox "MIGUSER" -ThrottlingPolicy MIGPolicy

Für einen Exchange 2013 oder 2016 lautet die Syntax wie folgt:

New-ThrottlingPolicy MIGPolicy

Set-ThrottlingPolicy MIGPolicy -RCAMaxConcurrency Unlimited -EWSMaxConcurrency Unlimited -EWSMaxSubscriptions Unlimited -CPAMaxConcurrency Unlimited -EwsCutoffBalance Unlimited -EwsMaxBurst Unlimited -EwsRechargeRate Unlimited

Set-Mailbox "MIGUSER" -ThrottlingPolicy MIGPolicy

Eine Drosselung für alle Accounts aufheben:

New-ThrottlingPolicy MIGPolicy

Set-ThrottlingPolicy MIGPolicy -RCAMaxConcurrency \$null -RCAPercentTimeInAD \$null -RCAPercentTimeInCAS \$null -RCAPercentTimeInMailboxRPC \$null -EWSMaxConcurrency \$null -EWSPercentTimeInAD \$null -EWSPercentTimeInCAS \$null -EWSPercentTimeInMailboxRPC \$null -EWSMaxSubscriptions \$null -EWSFastSearchTimeoutInSeconds \$null -EWSFindCountLimit \$null -CPAMaxConcurrency \$null -CPAPercentTimeInCAS \$null -CPAPercentTimeInMailboxRPC \$null -CPUStartPercent \$null

Get-Mailbox | Set-Mailbox -ThrottlingPolicy MIGPolicy

Für einen Exchange 2013 oder 2016 lautet die Syntax wie folgt:

New-ThrottlingPolicy MIGPolicy

Set-ThrottlingPolicy MIGPolicy -RCAMaxConcurrency Unlimited -EWSMaxConcurrency Unlimited -EWSMaxSubscriptions Unlimited -CPAMaxConcurrency Unlimited -EwsCutoffBalance Unlimited -EwsMaxBurst Unlimited -EwsRechargeRate Unlimited

Exchange 2010 Throttling Richtlinie

Get-Mailbox | Set-Mailbox -ThrottlingPolicy MIGPolicy

[https://technet.microsoft.com/de-de/library/dd297964\(v=exchg.141\).aspx](https://technet.microsoft.com/de-de/library/dd297964(v=exchg.141).aspx)