## Running on Microsoft SQL Server 2012

Follow the instructions up to Step 2, as documented in Running on Microsoft SQL Server 2005. Then, we will need to enable the listener port necessary for Joget to establish a connection to.

## Step 3: Enabling TCP/IP on Microsoft SQL Server 2012

Sql Server Configuration Manager       File     Action       View     Help       Image: Im		Running on	
<ul> <li>SQL Server Configuration Manager (Local)</li> <li>SQL Server Services</li> <li>SQL Server Network Configuration (32bit)</li> <li>SQL Server Network Configuration</li> <li>Protocols for SQLEXPRESS</li> <li>SQL Native Client 11.0 Configuration</li> </ul>	Protocol Name Shared Memory Named Pipes	Status Enabled Enabled	

Figure 1: Sql Server Configuration Manager

- 1. Enable named pipes and TCP/IP.
- 2. Open up TCP/IP Properties.

Active       Yes         Enabled       Yes         IP Address       192.168.2.105         TCP Dynamic Ports       TCP Port         TCP Port       1433         IP3       Active         Active       Yes         Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       170         IP4       Active         Active       Yes         Enabled       No         IP4       Active         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dort       IP Address         TCP Dort       IP Address		IP2		*
Enabled       Yes         IP Address       192.168.2.105         TCP Dynamic Ports       1433         IP3       Active         Active       Yes         Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       IPA         Active       Yes         Enabled       No         TCP Dynamic Ports       0         TCP Port       IPA         Active       Yes         Enabled       No         TCP Port       IPA         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dort       IPA		Active	Yes	
IP Address       192.168.2.105         TCP Dynamic Ports       1433         IP3       Active         Active       Yes         Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       IPA         Active       Yes         Enabled       No         TCP Dynamic Ports       0         TCP Port       IPA         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dynamic Ports       0         TCP Dynamic Ports       0         IP Address       169.254.228.98         TCP Dont       IPA		Enabled	Yes	
TCP Dynamic Ports       1433         TCP Port       1433         IP3       Active         Active       Yes         Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       1         IP4       Active         Active       Yes         Enabled       No         IP4       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dynamic Ports       0         TCP Dynamic Ports       0         IP Address       169.254.228.98         TCP Dont       IP Address		IP Address	192.168.2.105	
TCP Port       1433         IP3       Active       Yes         Active       No       Image: State St		TCP Dynamic Ports		
IP3         Active       Yes         Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       IP4         Active       Yes         Enabled       No         IP4       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0		TCP Port	1433	
Active     Yes       Enabled     No       IP Address     fe80::5882:f8f1:a270:e462%11       TCP Dynamic Ports     0       TCP Port     -       IP4     Yes       Active     Yes       Enabled     No       IP Address     169.254.228.98       TCP Dynamic Ports     0       TCP Dynamic Ports     0       TCP Dynamic Ports     0	Ξ	IP3		_
Enabled       No         IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       IPA         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0		Active	Yes	
IP Address       fe80::5882:f8f1:a270:e462%11         TCP Dynamic Ports       0         TCP Port       IP4         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dynamic Ports       0         TCP Dynamic Ports       0         TCP Dynamic Ports       0         TCP Dont       IP Address		Enabled	No	=
TCP Dynamic Ports       0         TCP Port		IP Address	fe80::5882:f8f1:a270:e462%11	
TCP Port       IP4         Active       Yes         Enabled       No         IP Address       169.254.228.98         TCP Dynamic Ports       0         TCP Dont       TCP Dont		TCP Dynamic Ports	0	
□ IP4       Active       Yes         Active       Yes       Yes         Enabled       No       No         IP Address       169.254.228.98       TCP Dynamic Ports         TCP Dont       TCP Dont       TCP Dont		TCP Port		
Active Yes Enabled No IP Address 169.254.228.98 TCP Dynamic Ports 0 TCP Port	Ξ	IP4		
Enabled No IP Address 169.254.228.98 TCP Dynamic Ports 0 TC P Port IP Address		Active	Yes	
IP Address 169.254.228.98 TCP Dynamic Ports 0 TCP Port IP Address		Enabled	No	
TCP Dynamic Ports 0 TCP Port IP Address		IP Address	169.254.228.98	
IP Address		TCP Dynamic Ports	0	-
IP Address		TCD Dort		
	IP	Address		
IP address	IP	address		

Figure 2: IP2 - TCP/IP Properties Under Protocols for SQLEXPRESS

1. Right-click on TCP/IP and select **Properties**.

2. Go to **IP2**, set your local IP Address in **IP Address**.

3. Remove TCP Dynamic Ports value.

Pro	tocol IP Addresses		
	TCP Dynamic Ports	0	
	TCP Port		
Ξ	IP8		
	Active	Yes	
	Enabled	No	
	IP Address	172.16.154.1	
	TCP Dynamic Ports	0	
	TCP Port		
Ξ	IP9		
	Active	Yes	
	Enabled	No	
	IP Address	::1	
	TCP Dynamic Ports	0	
	TCP Port		
Ξ	IPAII		E
	TCP Dynamic Ports		
	TCP Port	1433	
тс	CP Port CP port		
	ОК	Cancel Apply	Help

Figure 3: IPALL - TCP/IP Properties Under Protocols for SQLEXPRESS

1. Go to IPALL

2. Empty TCP Dynamic Ports value.

3. Set TCP Port value to 1433.

🚡 Sql Server Configuration Manager						
File Action View Help						
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😵 SQL Server Configuration Manager (L	Name	State	Start Mode	Log On As	Process ID	
SQL Server Services     SQL Server Network Configuration     SQL Native Client 11.0 Configurat     SQL Server Network Configuration	SQL Server (SQL SQL Server Age SQL Server Brov	Start Stop	Automatic Automatic Automatic	NT Service\MSSQL NT AUTHORITY\NE NT AUTHORITY\LO	4488 0 2412	
Protocols for SQLEXPRESS		Resume				
P 👷 SQL Native Cheric 11.0 Configurat		Restart				
		Properties				
		Help				
<►	•				Þ	
Restart (stop and then start) selected service.						

Figure 4: Restart SQL Server Service for changes to take effect

1. Restart the server for the changes to take effect.

C∶∖Windo	C:\Windows\system32>netstat -ao					
Active C	onnections					
Proto TCP TCP TCP TCP TCP	Local Address 0.0.0.0:135 0.0.0.0:445 0.0.0.0:554 0.0.0.0:902	Foreign Address Hugo-PC:0 Hugo-PC:0 Hugo-PC:0 Hugo-PC:0 Hugo-PC:0	State LISTENING LISTENING LISTENING LISTENING	PID 920 4 2864 2788		
ŤČP	0.0.0.0:1433	Hugo-PC:0	LISTENING	4488		
ŤĊP TCP	0.0.0.0:5357 0.0.0.0:10243	Hugo-PC:0 Hugo-PC:0	LISTENING LISTENING	4 4		

Figure 5: Verify the listening port using command prompt

1. Verify that the listener is working through command prompt by executing **netstat -ao**.

C:\Windows\system32>tasklist /fi "pid eq 4488"						
Image Name	PID	Session Name	Session#	Mem Usage		
sqlservr.exe	4488	Services	0	173,140 K		

Figure 6: Verify instance based on the PID

1. Check on which process instance is listening to the port by executing tasklist /fi "pid eq 4488".