Starting development with Midpoint and IntelliJ IDEA 13 Ultimate

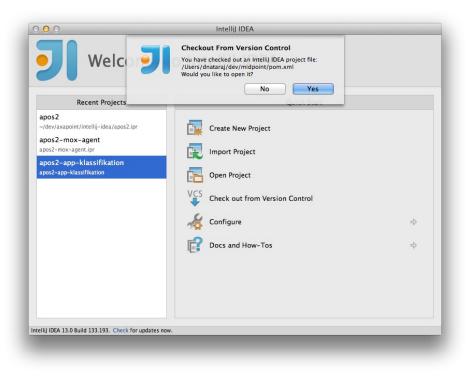
1. Start IDEA, if it is not already running. You are presented with various options to proceed. Select "Check out from Version Control", and choose "Git" as shown below :

Recent Projects	Quick Start			
apos2 //dev/axapoint/intellij-idea/apos2.ipr apos2-mox-agent pos2-mox-agent.ipr apos2-app-klassifikation apos2-app-klassifikation	Create New Project mport Project Open Project V Check out from Version Control Checkout from CitHub re Git Subversion d How-Tos			

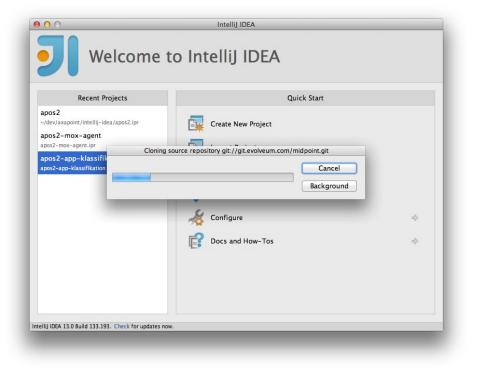
2. Enter the details for the Midpoint Git repository, and select "Clone", as shown below :



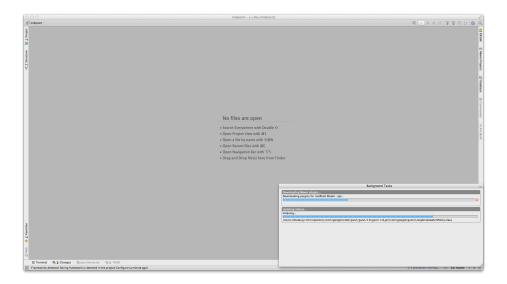
3. Select "Yes" in order for IDEA to process the project POM file :



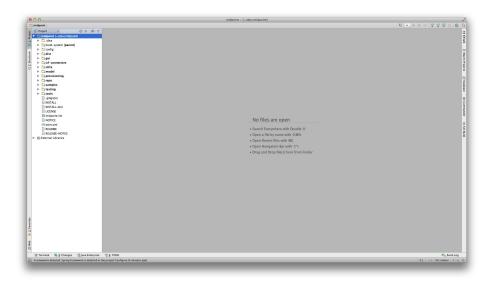
4. Wait while IDEA clones the Midpoint repository and creates the necessary project structures in the IDE.



5. A more detailed view of the import process is available, if needed :



6. After the import is complete, IDEA should have your project structure as shown below :

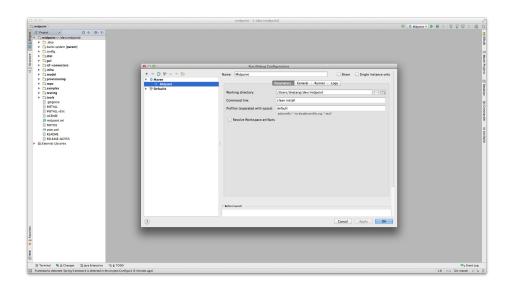


- 7. Now to set up Maven as a Run Configuration
 - 7.1 Select "Run \rightarrow Edit Configurations..." from the IDEA menus.

7.2 In the "Run/Debug Configurations" window that opens, click the "+" on the top left corner to open the "Add Configuration" sub-menu, and select "Maven" as shown below :

000		midpoint - [-/dev/midpoint]	2
C midpoint >			48 🗶 Midpolyk 💌 🕨 🕸 🧐 🙄 😭 🗂 🚳 📿
8 6 Project + O + Ø+ I*			
P T Camidooint (~/dev/midooint)			
a ⊨ ⊡.idea			1
Si > Cabuid-system (parent)			5
► Config			i i i i i i i i i i i i i i i i i i i
š ⊨ C⊒dist			
2 ► Cigui	000	Run/Debug Configurations	
B ⊨ □icf-connectors			3
N ≥ Calinfra	+ - 0 % + - 0		E E
model provisioning	Add New Configuration	Press the+ button to create a new configuration based on default settings	
Carpo	E Applet		1 D
Carepo Samples	Application Cradle		8
E testing	Cradie Craits		÷
Catools	Consis		
ationore	© Cropyy		
INSTALL .	JavaScript Debug		1
INSTALL-dist	Whit		1
LICENSE	2 Marco		1
BI midpoint.iml	C Query Language Console		
NOTICE mpom.xml	P Remote		
BEADNE	40 TestNG		2
BELEASE-NOTES	Reference to America Contract Server America A		t de la companya de la
External Ubraries	📅 XSLT		
	(15 more items)		
Run 🔐 Mépoint			0- <u>1</u>
G Server Torricat Catalina Log × T Torric	and another state of the state		
	carter and they a		
- Deprogram Couper			
	25:10,740 -INFO 25:10,740 -INFO		er] for [encoder] property a13/toncat/Unnamed midpoint/loos/idm-profile
8 🗧 + 00	25:10.740 -INFO		Idea13/tomcat/Unnamed_midpoint/logs/idm-prof
2 Ø 3 8 80	25:10,740 -INFO 25:10,740 -INFO		
	25:10.741 -INFO		4
×	25:10,741 -INFO	✓ Confirm rerun with process termination	
?	25:10,741 -INFO 25:10,741 -INFO	Temporary configurations limit: 5	
- ee ee	25:10,742 -INFO		LevelChangePropagator] to the object stack
60	25:10,744 -INFO ?	Cancel Apply 0	<pre>K e.[Catalina].[localhost]] to null</pre>
00	25:10.755 -INFO in ch.gos.lotback.classic.i	1.LevelChangePropagator92a3f926a - Propagating INFO level on Logger[com.evolveum.midpoint.audit.log	onto the JUL framework
9 00 00 00 00 00 00 00 00 00 00 00 00 00	25:10,755 -INFO in ch.qos.logback.classic.j	11.LevelChangePropagator92a31925a - Propagating OFF level on Logger[net.sf.jasperreports.engine.fill 11.LevelChangePropagator92a31925a - Propagating WAWN level on Logger[org.apache.wicket.resource.Prop.	.JRFillDataset] onto the JUL framework
	25:10.755 -INFO in ch.gos.looback.classic.i	 LevelChangePropagator@2a3f926a - Propagating OFF level on Logger[org.hibernate.engine.idbc.spi.Sc 	[ExceptionWelper] onto the JUL framework
	25:10,756 -INFO in ch.qos.logback.classic.j	ran.action.LogperContextListemerAction - Starting LoggerContextListemer ran.action.ConfigurationAction - End of configuration.	
1000 (2	20:10,700 (-INFO IN Ch.qus.logoack.classic.j	ran.action.ConfigurationAction - End of configuration.	
2	1813-12-84 18:25:12,787] Artifact midpoint: Ar 1813-12-84 18:25:12,787] Artifact midpoint: De	ifact is deployed successfully	
A (2	exercises relations, renj Artifact Hidpoint: De	nov work sources managements	
	hanges 🛛 🚡 Java Enterprise 🖓 Application Servers		III 1 Event Log
Frameworks detected: Spring framework is detected in	n the project Configure (yesterday 5:28 PM)		21:1 n/s n/s Git master 0 16 🖶

- 8. Give the Maven run configuration a name, and
- Set a working directory, which should be the Midpoint project root folder
- Use "clean install" as the command line parameters to the Maven runtime
- And enter "default" as the Maven profile to use



9. Select the "Runner" tab, in the same window, and check "Skip tests" if so desired – as this cuts down the project build time considerably (Approx 40 minutes on a dual core 1.7GHz Macbook Air w/ 8GB of RAM)

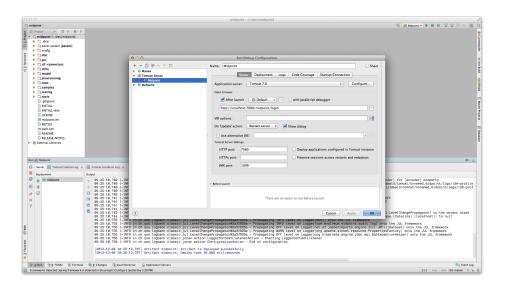
10. To configure deployment to a local Tomcat instance, from within IDEA, once again click the "+" on the top left corner of the "Run/Debug Configurations" window, as shown below :

			midpoint - (~/dev/mid	dpoint]		
Ca midpoint)						45 O Midpoint * * @ 10 10 10 10 10
8 Project - 0 + 0 + 1-						
Cimidpoint (~/dev/mdpoint) Data Data						
5 F Light 6 F Lid-connectors	000		Run/Debug Cor	nfigurations		
E Cinfra	+ - 🕅 🌮 🗠 🗸 🗖		Name: Midpoint		Share Single instance only	
¥ ► Camodel	Add New Configuration					
Disprovisioning	Applet			Parameters General Runner	Logs	
▶ Cirepo	Application					
► Casamples	Gradle		Working directory:	/Users/dnataraj/dev/midpoint		
Catesting Catesting Catesting	🕤 Crails		Command line:	clean install		
alignore	Oriffon					
I INSTALL	Groovy DavaScript Debug		Profiles (separated with space)			
INSTALL-dist	Unit			add prefix '-' to disable profile, e.g. "-tes		
LICENSE	Mayen		Resolve Workspace artifac	ts		
I midpoint.iml	III Query Language Console					
m pom.xml	Remote					
BEADNE	🕫 TestNG					
RELEASE-NOTES	🕷 Tomcat Server 🔹 🕨		Server' Configuration			
External Ubraries	📅 XSLT	R Local				
	(15 more items)	Remote				
Run 🔅 Midpoint						0 - L
+ Qr.war						Q x
(INFO) midPoint Report - impl						
INFO midBoint liser Interface						
INFO midPoint User Interface - admin web gui						
[INFO] midPoint User Interface - common						
INFO midPoint User Interface - admin web gui INFO midPoint User Interface - forms						
an 📋 [INFO] midPoint Samples - Test			• Before launch			
INFO midPoint Samples - Model client sample INFO midPoint Samples			- Benero adoren			
[INFO] midPoint Testing - Sanity						
INFO midPoint Testing - Consistency mechanis INFO midPoint Testing Infrastructure					Cancel Apply OK	
X [INFO] midPoint Distribution						
2 INFO] BUILD SUCCESS						
1NF0						
[INFO] Finished at: Tue Dec 83 15:37:46 UTC 28	13					
(INFO) Final Memory: 84N/889M						
Process finished with exit code 0						
6						
📄 Terminal 🦉 💈 Changes 👔 Java Enterprise 🕨 🛓 Run 👒 💁 TO	00					m1 Event Log
Frameworks detected: Spring framework is detected in the project Configure (17	minutes apo)					9279.96 n/a Git master : 'a II

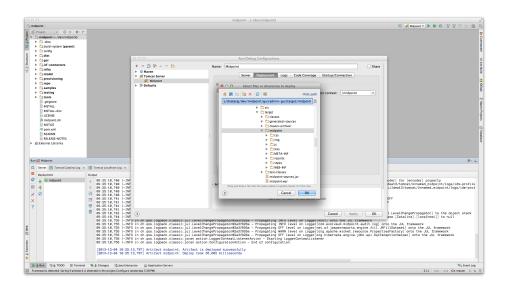
11. Now provide IDEA the location of your local Tomcat 7.0 installation :

			midpoint - [-/dev/midpoint]		
C1 midpoint)					42 O Midpoint + 🕨 🕸 🐵 💱 🍄 🗁 🗐 🗘
g © Project © • • • g V Emildeniat (-/dev/mdpoint) k > • Calvel - system (parent) k > Calvel - system (parent) g k Calvel - system (parent) g k Calvel - system (parent)					
S > Cigui			Run/Debug Configurations		
8 ► Calcf-connectors	+ - 🕅 🛠			1 I	
V > Camodel		- A - Y - E	Name: Midpoint	Share	
provisioning	Naven V Stomcat:		Application Servers		
► Carepo	Mdg		Name: Tomcat 7.0		
Samples	► % Defaults		Name: Tomcat 7.0	anfigure	
► Catesting		Tomcat 7.0	Tomcat Home: /Users/dnatarai/dev/dev-tomcat/apache-tomcat-7.0.47		
► Catools			Tomcat Version: 7.0.47		
.gitignore					1
INSTALL			Tomcat base directory: /Users/dnataraj/dev/dev-tomcat/apache-tomcat-7.0.47		
INSTALL-dist			Ubraries		
midpoint ini					
NOTICE			Visers/dnataral/dev/dev-tomcat/apache-tomcat-7.0.47/lb/isp-api.jar		
m pom.xml			/Users/dnataraj/dev/dev-tomcat/apache-tomcat-7.0.47/it0/jsp-api.jar /Users/dnataraj/dev/dev-tomcat/apache-tomcat-7.0.47/it0/serviet-api.jar		
README			[] (detra/drawing/det/det-drawing)/packet-drawing) (detra/drawing)		
RELEASE-NOTES					
External Libraries					
				icat instance	
Run O Midsoint				redeploys	0 · 1.
1.0				and hold	Q. ×
+ Qr ser					👷 ×
INFO nidPoint Report - impl INFO nidPoint User Interface addin web gu INFO nidPoint User Interface addin web gu INFO nidPoint User Interface - addin web gu INFO nidPoint User Interface - addin web gu INFO nidPoint User Interface - dowin web gu					
INFO midPoint Samples - Test			+ 👆 🗂 -		
[INFD] midPoint Samples - Model client sample			Cancel Apoly OK		
[INFO] midPoint Testing - Sanity		?	Cancel Apply OK	🢡 Fix	
INFO midPoint Testing - Consistency mechanis INFO midPoint Testing Infrastructure INFO midPoint Distribution INFO	0		Cancel Appl	у ОК	
8 1 (NFO) BUILD SUCCESS 1 NFO 1 NFO 1 NFO Total time: 4:21,1938 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished at: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Finished At: Tue Once 03 15:37:46 UTC 24 1 NFO Fini	113				
Process finished with exit code 0					
🗑 Terminal 🦉 2: Changes 👔 Java Enterprise 🕨 4: Run 👒 6: TC	00				1 Event Log
Frameworks detected. Spring framework is detected in the project Configure []					9279.96 n/a Git master : 'a 🗐

12. Name the instance, and configure it as shown below. Provide the Midpoint login URL, so that this would be launched in a browser, after Midpoint.war is deployed at startup (Optional):



13. Select the exploded Midpoint webapp from the built artifacts – so that IDEA can deploy this to Tomcat :



14. Select the Maven run configuration (displayed in a drop down in the IDEA toolbar with the provided name e.g "Midpoint Run") and Click "Run" (available in the toolbar, or the "Run" main menu) to build the entire project.

15. Select the Tomcat run configuration (displayed in a drop down in the IDEA toolbar with the provided name e.g "Midpoint Deploy") and again, click "Run" in order to start a local Tomcat instance and deploy Midpoint. A successful deployment will result in your default browser launching with the Midpoint Login page!

Note: The midpoint.home environment variable can be provided by setting a path variable in IDEA (Preferences \rightarrow Path Variables)