





IBM Tivoli Directory Server – ITDS 6	6.0 Replication	IBM
Configuring replication Login to the webadmin a Master) Replication Managemen Manage Topology Add Subtree 	from the web admin too as cn=root on Peer1 (Authoritat t	 :ive
Server administration Schema management Directory management Manage credentias Manage topology 2 Manage topology 2 Manage schedules Manage schedules Manage schedules	Manage topology Note: Replication requires all servers in the top Replicated subtrees Add subtree 3 Select Action y Go Select Subtree Topology for selected subtree	polog <u>;</u>
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IBM Tivoli Directory Server – ITDS 6.0 Replication	n	
Next, we have to select our tre	e	
There are two options in this case:		
1. We can manually type in our su	btree	
2. We can browse and select our s	subtree	
In this example we are going to clic	ck on Browse…	
Add replicated subtree		
Subtree DN		
* Br	owse	
Master server referral LDAP UF	٦L	
ldap://peer1:389		
OK Cancel		
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	ВМ Т	ivoli Directory Serv	ver – ITDS 6.0 Replication			
Selec	Select the subtree you want to replicate					
Yo D	u wi Direc	II notice the ctory Manag	e selection screen is ve ement section of web	ery similar to the admin		
Bro	wsee	entries				
Cur	rent l	ocation				
Ida	ip.//p	een.369 C	collapse/Go to			
2	Select	Expand Fi	nd			
	***	? 🛛 🖻 🔳 🛛	Select Action 👻 Go			
Se	elect	Expand	RDN	Object class		
	0	÷	cn=configuration	ibm-slapdTop		
	0	÷	cn=ibmpolicies	container		
	0	÷	cn=localhost	container		
1	۲		o=ibm,c=us	organization		
	Page	1 of 1	Total: 4 Filtered: 4	Displayed: 4		
Ca	ancel]				
		1				
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IBM Tivoli Directory Server – ITDS 6.0 Replicati	on	
Checking our subtree		
 We have selected our subtree, a check is to make sure we are no our "Master Server Referral LDA 	and the last thing we need at using another system fo AP URL"!!!	to or
Click OK		
Add replicated subtree		
Subtree DN * <mark>o=ibm,c=us Browse</mark>		
Master server referral LDAP URL Idap://peer1:389		
OK Cancel		
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This is what This is what Interformed and the second second Secon	Tot Tot Comparent state Protection requires all server Replicated subtrees Manage topology Note: Replication requires all server Replicated subtrees Add cubines	P Replication POIOGY WILLOOK ars in the topology to be configured property.	i ike
	Select Subtree Select Subtree O=IBM,C=US Topology for selected subtree : O= & #Replication topology	Role Role Add master Add master Role Role Role Role Role Role Role Role	Status Normai
	Close		
	6 66 6	8/15/2007	© 2007 IBM Corporation







Add a Master sc	erver – ITDS 6.0 Replication	
Add master		
B <u>Server</u> Additional	Subtree O=IBM,C=US Hostname *beer2	Port
	Enable SSL encryption Server is a gateway Peer master name (leave blank to use host	name)
	* jpeer2 Description Credential object	1 Get server ID
OK Cancel	Edit	
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IBM Tivoli Directory Server – ITDS 6.0 Replication	
Adding the credential – Naming your credential object In this first screen you can name the credential object 	
Add credential Add credential Authentication method Credential location O=IBM, C=US Credential name *[cn=mycreds Authentication method *[simple bind	
< Back Next > Finish Cancel 8/15/2007	© 2007 IBM Corporation

IBM Tivoli Directory Server – ITDS 6.0 Replication			
Setting your bind credential. The key to this dn is that it MUST N fact, this dn should not match any	IOT BE the real user o	cn=root dn. In n your system.	
In my case I will use cn=repibind			
Add credential			
Simple bind			
Bind DN			
Confirm password	1		
peer1 replication credential			
<pre>< Back Next > Finish Cancel</pre>			
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IBM Tivoli Directory Ser	rver – ITDS 6.0 Replication	
We can now	00 peer1:389	
see the	Select credential	
credential	peer2:389	
object we	Location for credentials	
created stored		Show credentials
under the	 cn=replication, cn=IBMpolicies 	Add credentials
o=ibm.c=us		
tree:	Select credential	
	mycreds - peer1 replication credential ~	
	OK Cancel	
Click OK		
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IBM Tivoli Directory Serve	r – ITDS 6.0 Replication		IEM
We are back in the	e Add Master screen		
 We can now see to this agreement. N O Peer1:389 Add master 	he credential object we creat ext we must click on the Add	ed as part of litional tab:	f
+ Server Additional	Subtree O=IBM_C=US Hostname * [peer2 Enable SSL encryption Server is a gateway Peer master name (leave blank to use host name) Server ID * [peer2 Description Credential object * [cn=mycreds,ibm-replica] Edit	Port * 389 Get server ID	
OK Cancel	8/15/2007	© 2007	BM Corporation

The Additional Ta	ver – ITDS 6.0 Replication	
Server Additional	Select replication schedule or enter DN (optional) None Add Capabilities replicated to consumer]
	Image: Select Action Go Select Capabilities Filter ACLs Image: Password Policy	
	Consumer Add credential information on consumer Consumer admin DN con=root	
OK Cancel	Consumer admin password	
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	IBM Tivoli Directory Server – ITDS 6.0 Replication		
The	Create additional supplier a	igreements sc	reen
	This screen is what builds the repli between each system. This is a way we want to replicate, in this case I w	cation agreements / for us to customi vant both agreeme	ze how ents:
	Create additional supplier agreements	Logfiles H	elp
	Agreements will be created for the following mas suppliers to this server. Uncheck any agreements created.	ter servers to act as s that you do not want to k	be
	Agreements		
	🕼 🗈 🔳 Select Action 🖌 Go		
	Select Supplier	Consumer	
	✓ cn=peer2:389	cn=peer1:389	
	✓ cn=peer1:389	cn=peer2:389	
	Continue Cancel		
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IB	M Tivoli Directory Server – ITDS 6.0 Replication	
Next it	will ask you if you want to restart Peer2.	
l wil	I typically answer no to this question as:	
1.	It takes a while for the ibmslapd process to restart	
2.	I will be restarting peer2 anyway during the data sync	; later
	Admin demon port Logfiles He	<u>alp</u>
	Consumer server need to be restarted for supplier credential to take effect Please enter admin demon port to restart the server.	
	Consumer peer2:389	
	Admin demon port 3538	
	Do you want to start/restart the consumer server? Yes No	
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IBM Tivoli Directory Server – ITDS 6.0 Replication	
 Will ask us if we want to restart Peer1 I usually skip this step due to the same reasons as before, BUT You have to pay attention here. If you do NOT restart your Mas the credential object will not be in play and as such Peer2 will I be able to replicate to Peer1 we will discuss in detail later. 	 ter NOT
Click NO	
Logfiles H	lelp
Consumer server peer1:389 need to be restarted for supplier credential to take effect. Do you want to restart the server?	
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BM Tivoli Director	y Server – ITDS 6.0 peer topc	Replication	like	
At this point	••• peer1:389			
we only	Note: Replication requires	all servers in the topology to be	configured properly	
we only	Replicated subtrees	an aervera in the topology to be	comgarea propeny.	
have Peer1	Show topology Add	d subtree Quiesce / Unq	uiesce	
and Peer2	Select Action	▼ Go		
in our peer	Select Subtree		Role	Status
to poor	⊙ O=IBM,C=US		Master	Normal
to peer	Topology for selected subtr	ee : O=IBM,C=US		
replication	□ Impeer1:389	Add replica		
agreement,	© @peer2:389	Manage gateway servers		
but this is	- @peer1:389	Edit agreement		
what the		View schedule		
topology		View server		
topology	[View errors		
looks like:		Move		
		Delete		
	Close			
	I			
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	BM Tivoli Direct	ory Server – ITDS 6.0	Replication	<u>i</u> i i
athe	r rinse	e repeat		
■ V c a	Ve use the onfiguration ttributes re	same steps to on I want to hav eplicate so I ad	add our other subtre ve my schema and pa d the cn=ibmpolicies	es. In this sswordPolicy subtree
0 0 🕩 pe	eer1:389			
Manage t	topology			
Note: R	eplication requires a	all servers in the topology t	o be configured properly.	
Replicat	ed subtrees			
Replicat	ed subtrees	d subtree Quiesce /	Unquiesce	
Replicat Sho	ed subtrees w topology Ad	d subtree Quiesce /	Unquiesce	
Replicat Sho Select	ed subtrees w topology Ad Select Action Subtree	d subtree Quiesce /	Unquiesce	Status
Replicat Sho Select	ed subtrees w topology Ad Select Action Subtree CN=IBMPOLICIES	d subtree Quiesce /	Unquiesce Role Master	Status Normal
Replicat Sho Select	ed subtrees w topology Ad Select Action Subtree CN=IBMPOLICIES O=IBM,C=US	d subtree Quiesce / V Go	Unquiesce Role Master Master	Status Normal Normal
Replicat	ed subtrees w topology Ad Select Action Subtree CN=IBMPOLICIES O=IBM,C=US ty for selected subtr	d subtree Quiesce / Go S ee : CN=IBMPOLICIES	Unquiesce Role Master Master	Status Normal Normal
Replicat	ed subtrees w topology Ad Select Action Subtree CN=IBMPOLICIES O=IBM,C=US y for selected subtr blication topology	d subtree Quiesce / Go Control Control Co	Unquiesce Role Master Master	Status Normal Normal
Replicat Select	w topology Ad Select Action Subtree CN=IBMPOLICIES O=IBM,C=US y for selected subtr olication topology eeer1:389	d subtree Quiesce / Go Contraction of the second seco	Unquiesce Role Master Master	Status Normal Normal
Replicat	w topology Ad Select Action Subtree CN=IBMPOLICIES O=IBM,C=US y for selected subtr blication topology ueer1:389 ueer2:389	d subtree Quiesce / Go S ree : CN=IBMPOLICIES Add master Add replica Manage gateway servers	Unquiesce Role Master Master	Status Normal Normal

