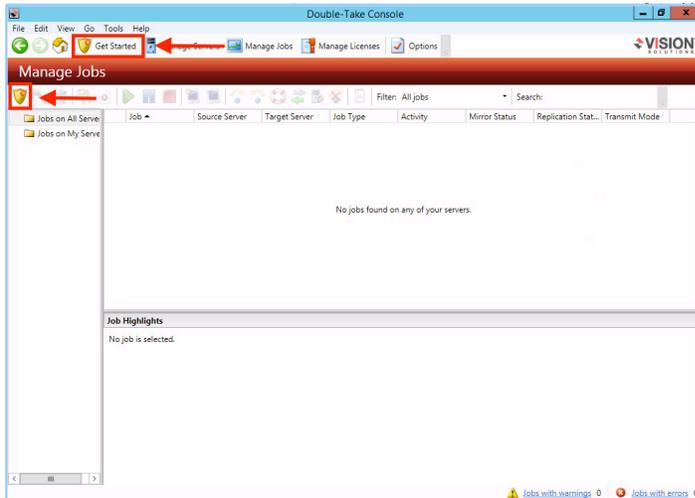


Creating Replica Jobs in Double-Take

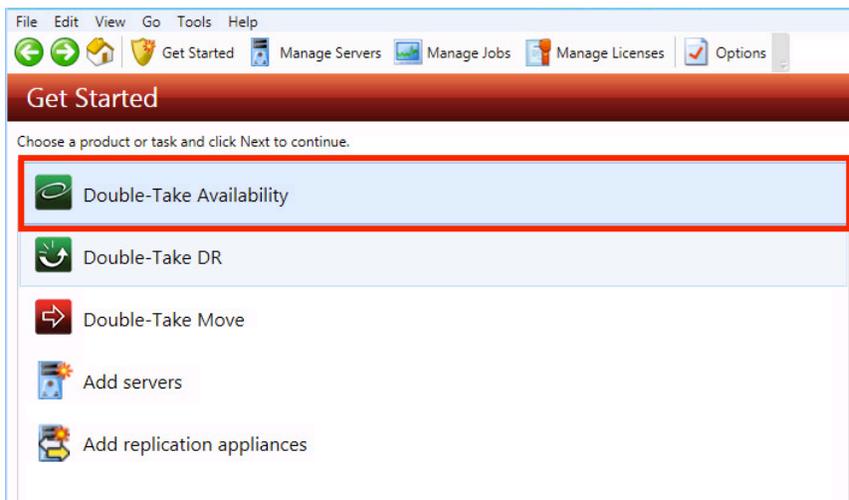
Full Server Replication

In this walkthrough, we will create a Double-Take Full Server replica job. Double-Take allows for multiple forms or replication, such as Files and Folders, Exchange or SQL and Full Server. If you are unsure about which method to use, using Full Server replication is usually the best bet. With Full Server Replication, the Source Server will be replicated to the Target and during a Failover it re-images the Target. Effectively, this turns the Target Server into the Source Server but at the DR site. For instance, you may have a server named filesrv1 on your Production site that is replicating to a Target at the DR site with the name filesrv1-replica. After failover, filesrv1-replica is rebooted and comes back online as filesrv1, with registry, user, program files all copied and imaged onto the Target server.

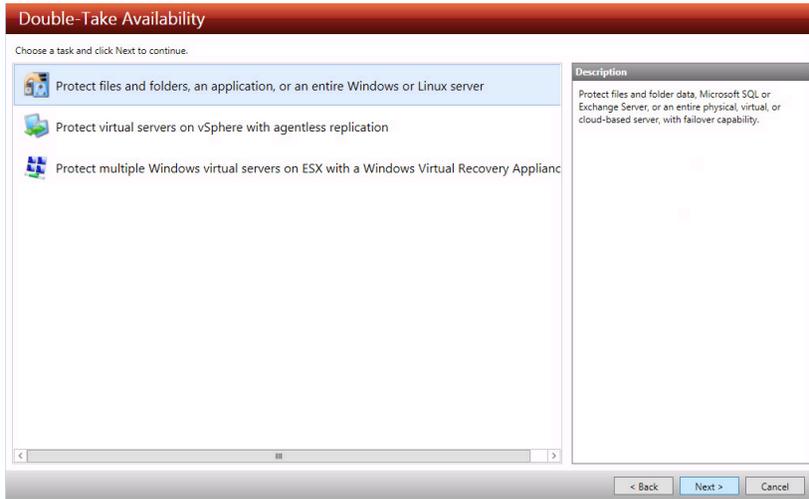
- To create a job in the Double-Take console, click the Getting Started button located in the Toolbar. Alternatively, if you are under the Manage Jobs tab, you can click the Getting Started icon to the left.



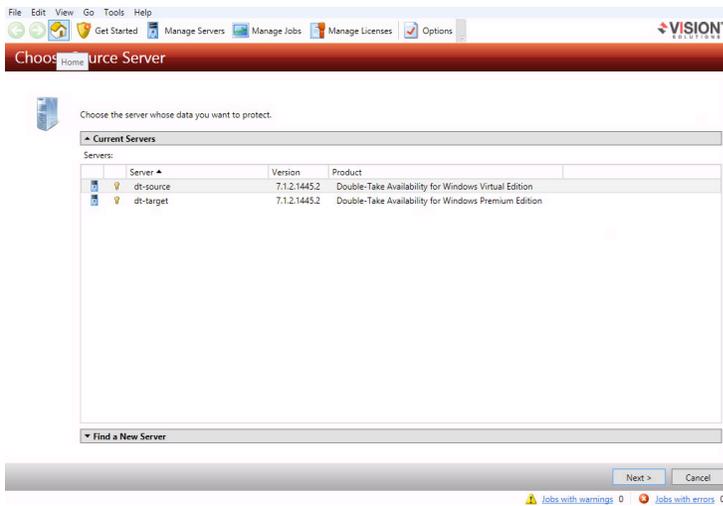
- Choose the Double-Take Availability button and click next



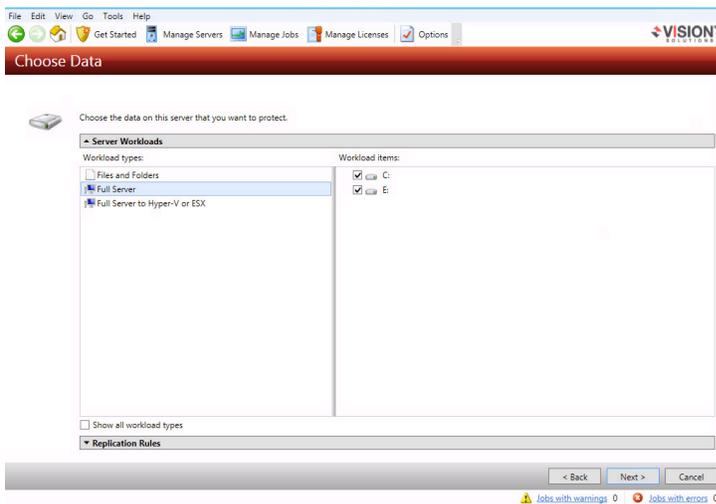
- Choose "Protect files and folder, and application, or an entire Windows or Linux Server" and click next



- Chose the Source Server for replication. This will be the production server that you are trying to protect or migrate. Click next to continue.
 - If you have not yet added the server to act as the Source, you can click the Find a New Server dropdown button to add the server now.

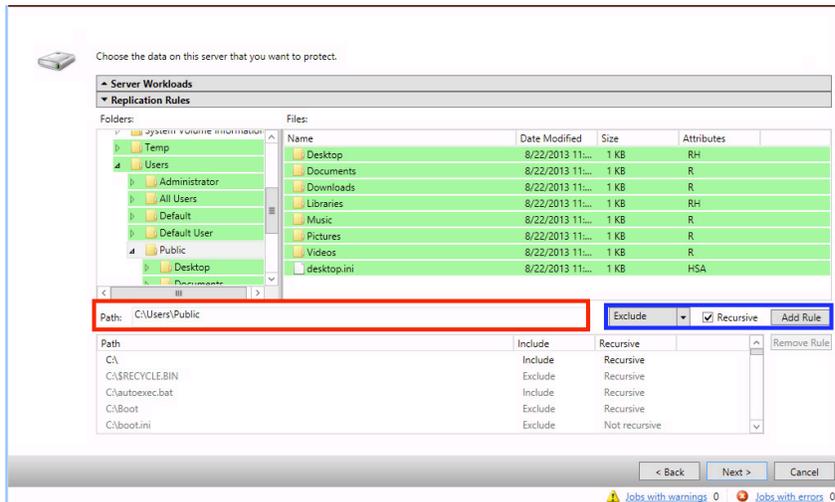


- For Full Server replication, click on the Full Server option under the Workload Types box. To view all Workload types, you can check the box near the bottom of the screen. This will allow you to use other methods such as Exchange/SQL replication or Files and Folder.
 - On the Workload items box, to the right, you can choose to exclude any disks from the replication

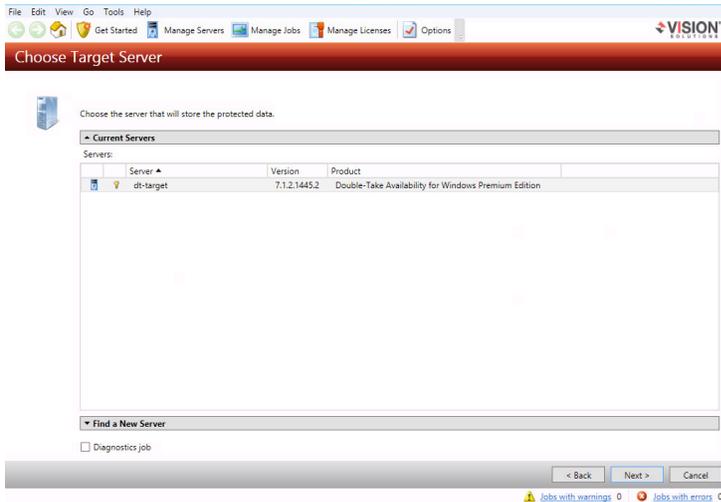


- You can also expand the Replication Rules dropdown to set specific replication exclusions. For instance, I would like to exclude the Public user account from the replication set.
 - To exclude a file or folder, browse to the item under the left-hand folder explorer.

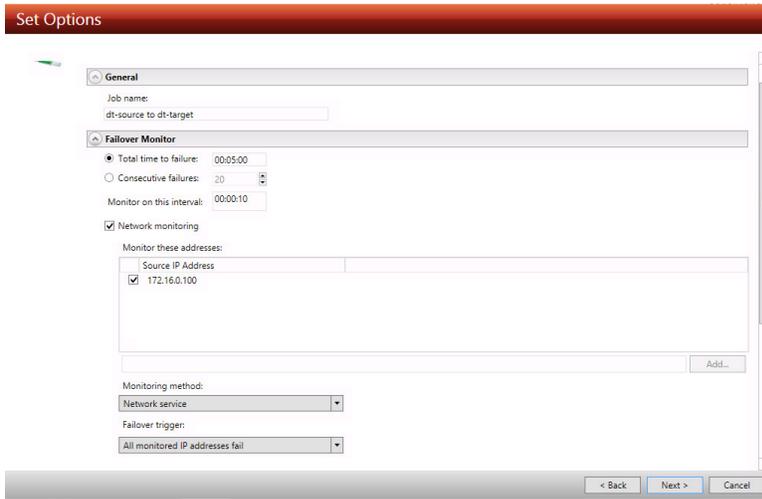
- Click on the files or folder you wish to exclude. In my screenshot, I am selecting to exclude the Public folder under the C:\Users\ directory. (Red Box)
- Set the folder to Exclude and then click Add Rule. (Blue Box)
- Once complete, you will see that the folder is not highlighted anymore and in the box with existing rules I can now see the folder will be excluded.
- By default, DoubleTake will include and exclude certain system registry, image and boot files. It is recommended not to change any of these rules.



- Next, you will select the Target Server. This will be the server you are replicating or migrating to.
 - If you have not yet added the server to act as the Target, you can click the Find a New Server dropdown button to add the server now.



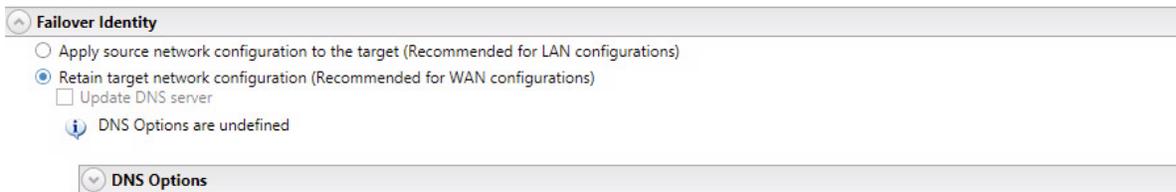
- Click Next to open the Options page. You will see several types of options to configure for this server. Most can be left at the default value.
 - **General:** You can change the name of the Job. This is the name you will see in the Double-Take Console when the job is created.
 - **Failover Monitor:** Here, you can set methods, thresholds and IP addresses to monitor for an Automatic Failover. For instance, in this screenshot, Double-Take will reach out to the source server every 10 seconds on IP 172.16.0.100. If it is unable to communicate to that IP for 5 minutes, it will automatically begin a Failover.



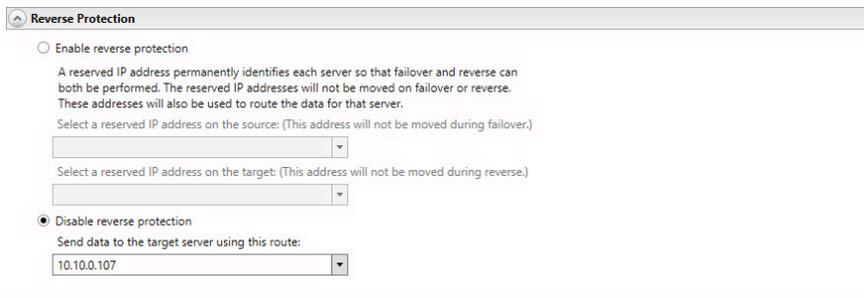
- **Failover Options:** Here you can use the Wait for user to initiate failover checkbox to require a user to actually kickoff the failover. Even if the servers has been unreachable for 5 minutes, Double-Take will wait for a user to manually start the failover. You can also set Pre-failover and Post-failover scripts to run in this section.



- **Failover Identity:** You can choose to apply the Source Server's IP configuration to the Target server on a failover. You may want to use this option if you are replicating a server onto the same internal network, or a network with the same subnet as the Source Server. My replication will be performed over a VPN to a different subnet, so I have chose to retain the Target's network information. With this option, you can also configure Double-Take to automatically update your DNS server to set the Source with a new IP. For instance, if the Source filesrv1 has IP of 172.16.0.100 and fails over to my target that is 10.10.0.100 then filesrv1 will be online at the DR site with the Target IP. This setting will allow you to automatically set the DNS Host record of your domain controller to forward filesrv1 to 10.10.0.100 in your domain.



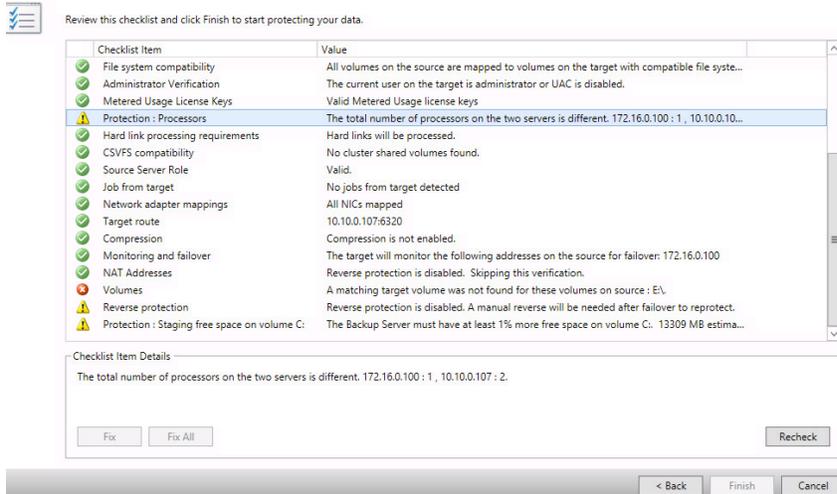
- **Reverse Replication:** It is recommended to leave Reverse Replication disabled. There are extra NICs, and IP required for both the Source and Target server to enable automatic reverse replication. Instead, iland recommends this be set up manually after a failover, when the production environment is stable again. This ensures that you are in control of the data replicated back to the source production server and we can coordinate a failback to production window.



- The other options can be left at default, but if you would like to go further into the advanced configurations of a job, please visit http://download.doubletake.com/_download/Documentation/DocumentationLibrary.htm to find a wide assortment of official Double-Take

documentation.

- Click next to advance to the review and summary page. Double-Take will automatically analyze the job settings, source server and target server configuration and report back if there are any issues or errors with the set up. Certain alerts may be ignored, for instance Reverse Protection being disabled in my screenshot. Others, like different number of processors or the free space for a staging folder, can be ignored but best practices would be to resolve these issues. The job will still successfully create in this set up, however there may be an issue down the road if the C: Drive fills up and halts the job or if during a failover certain applications that require more CPU may function incorrectly. However, the Error for mismatching volumes, where the Target server does not have a disk labeled E: will prevent the job from completing set up. You can resolve this by adding a disk to the Target server and matching the disk label and size to whatever is configured on the source.

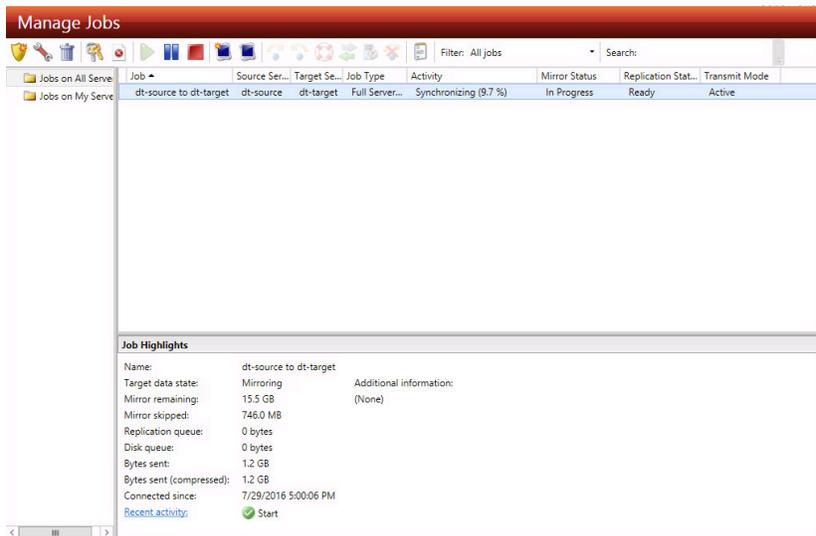


- Once you have made any changes or resolved the alerted issues, you can click the Recheck button. Double-Take again will analyze the job, Source and Target server settings to verify the job creation. Once all Errors have been resolved, you can click Finish to create the job.

Review this checklist and click Finish to start protecting your data.

Checklist Item	Value
Job to source	No conflicting jobs to source detected
Server Properties	Server Properties verified
File system compatibility	All volumes on the source are mapped to volumes on the target with compatible file syste...
Metered Usage License Keys	Valid Metered Usage license keys
CSVFS compatibility	No cluster shared volumes found.
Source Server Role	Valid.
Job from target	No jobs from target detected
Administrator Verification	The current user on the target is administrator or UAC is disabled.
Network adapter mappings	All NICs mapped
Target route	10.10.0.107:6320
Compression	Compression is not enabled.
Monitoring and failover	The target will monitor the following addresses on the source for failover: 172.16.0.100
NAT Addresses	Reverse protection is disabled. Skipping this verification.
Volumes	No mismatched volumes found between source and target.
Reverse protection	Reverse protection is disabled. A manual reverse will be needed after failover to reprotect.
Protection : Processors	The total number of processors on the two servers is different. 172.16.0.100 : 1 , 10.10.0.10...

- Under the Manage Jobs tab in the Double-Take console, you can view the progress of the new job. Click on the job will bring up the job statistics, including data replicated as well as data skipped and any recent activity on the job. From this screen, you will be able to Pause, Stop, Start and Failover a replica job, as well as view logs and add new jobs.



Technical Support Details

At iland, we take great pride in our best in class technical support services. We provide access to our 1st, 2nd, and 3rd Tier technical support representatives.

For urgent matters, our technical support lines can be reached 24x7:

- North America: (800) 697-7088 option 2
- United Kingdom: 44.0.20.7096.0149
- Singapore: 65.3158.8301

For less urgent matters, email is best. Our support team can be reached at support@iland.com