

Setting Up a Remote CMOD Server



What is a “remote” CMOD server?

- Any CMOD server setup to augment the work of your Main CMOD Server
- You only have one CMOD Library Server, but you can have more than one Object Server, or additional CMOD servers supporting your main CMOD system



Types of Remote CMOD servers

In addition to your main CMOD system

- **Object Server**
 - For 2-n CMOD storage
- **Test Server**
 - Complete CMOD install
- **Features Server**
 - ODWEK, FTI/FTS, PDF Indexer
- **Remote loading server**
 - Quick, easy, no database
 - Used mainly to get to ARS commands
 - Remote indexing and loading of data



Why setup a remote CMOD ?

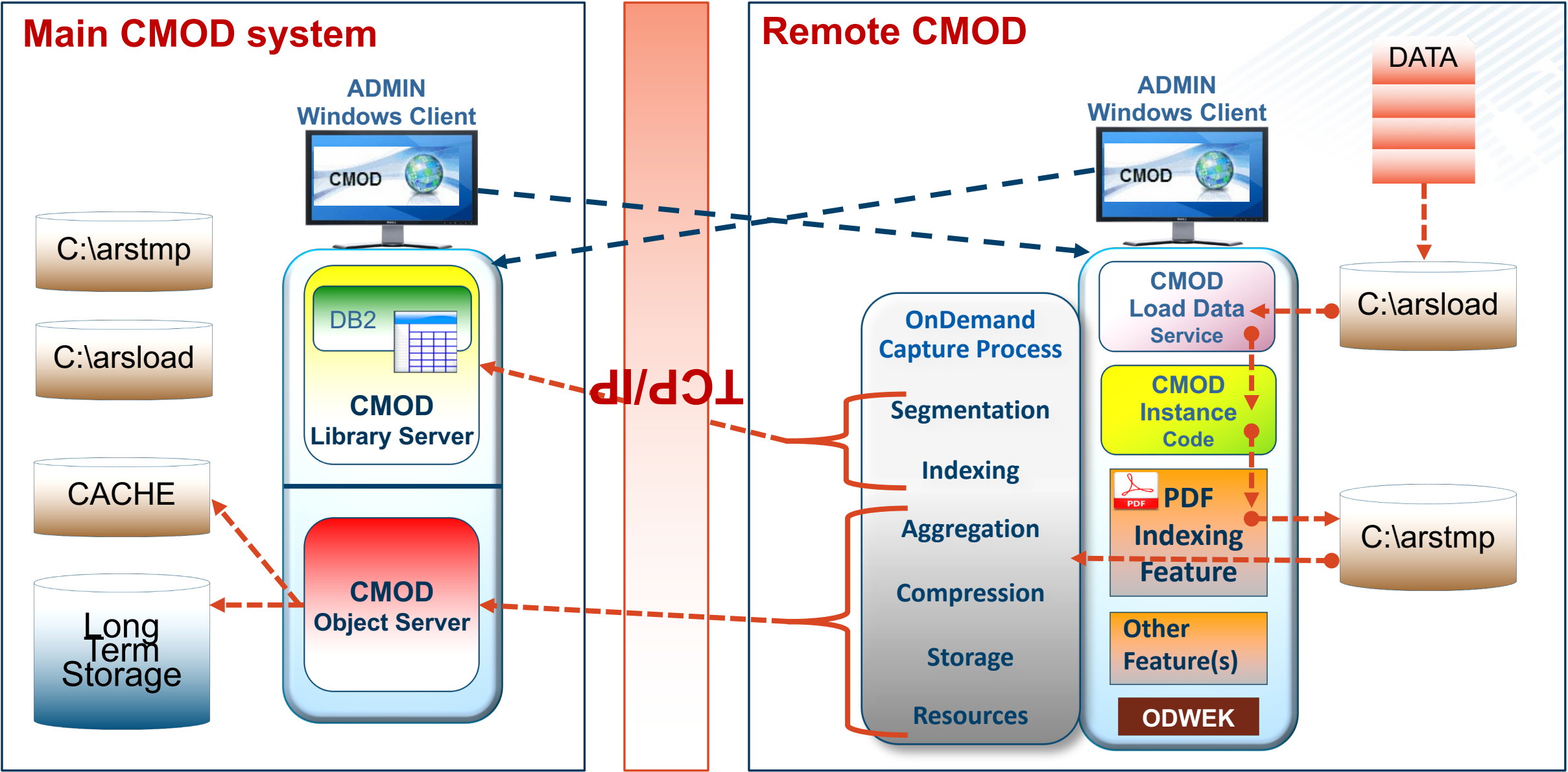
- There are many reasons for setting up a “remote” CMOD server
 - 2 of the 4 Optional features for CMOD (PDF Indexer, Full Text Indexing) **should** be run on a “separate” server as not to slow down the main CMOD server. You **can** run any of the features on the main CMOD server.
 - Even if your CMOD server is on a different platform like AIX, zOS, IBM for I, Linux, etc. You **can** run the features on different platforms like Windows
 - You may want to off-load the indexing to another server, saving resources like MIPS, or CPU on your CMOD server
 - You may want to setup multiple “remote CMOD” servers for processing large (or month end, quarter end, year end processing).
 - Help with migrations. Maybe you have a lot of data to get into CMOD quickly
 - Remote CMOD servers are very easy to setup (and take down).
 - May need an Object Server which we will discuss in a separate Lab
 - PDF Indexer is **recommended** to run on Windows because of the nature of PDFs coming from the Windows

Have you heard?



BIG NEWS !!!

The PDF Indexer is **now included** with CMOD 10.5

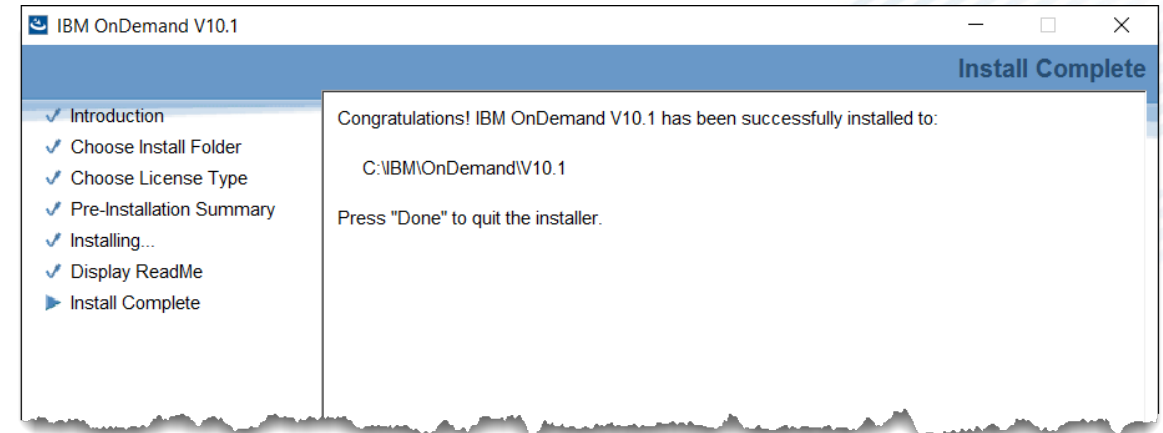


CMOD Server Install



Installing CMOD Server

- Start Windows Explorer,
- Navigate to “c:\Install_Software\CMOD\Server”
- Run “**odwin.exe**”
- Take default of language (**English**) click “OK”
- Introduction: Click “Next”
- Software License agreement: Select “**I accept...**” and Click “Next”
- Choose Install Folder:
 - Change the directory to “C:**IBM**\OnDemand\V10.5” and click “Next”
- Chose License Type:
 - Select “**Processor Value Unit, Non-Production**” and click “Next”
- Pre-Installation Summary: Click “Install”
- Do you want to display the readme file? Click “No”
- Click “Done” !
- *CMOD Server is installed (we'll configure it in a few minutes)*



CMOD Feature(s) Install



CMOD Fixpack Install



CMOD Clients Install

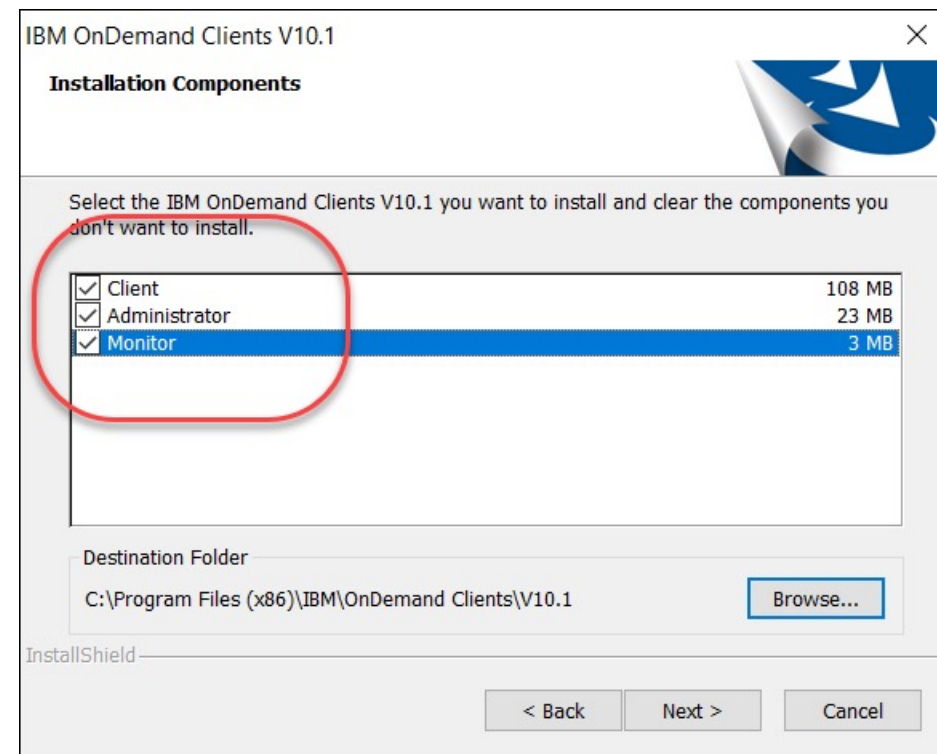


Installing 32 bit CMOD Clients cont...

- Choose “Custom” (otherwise you will not get the Administrator and (ODF)Monitor clients)
- Select “Client, Administrator and Monitor”

- Click “Next”
- Click “Next”
- Click “Next”
- Click “Finish”

Note: *We will restart later*



Verifying Fixpak

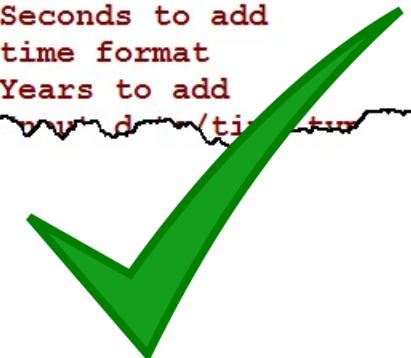
Issue any ARS command (like ARSDATE...

At the top of the window you should see: **Version 10.5.0.2**



```
Administrator: OnDemand Command Prompt
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.

C:\IBM\OnDemand\V10.5\bin>arsdate
ARS4500I Usage: arsddate [-a|-i|-z] [-A|-I|-Z] [-C] [-r)
Version: 10.5.0.2
-a Input date type (default)
-A Output date type (defaults
-C Convert to/from OD internal
-d <days> Days to add
-D Database type (default is OD
-f <input_fmt> Input format string
-F <output_fmt> Output format string
-g Get today's date
-h <hours> Hours to add
-i Input date/time type (withou
-I Output date/time type (with
-m <months> Months to add
-n <mins> Minutes to add
-s <secs> Seconds to add
-t time format
-y <years> Years to add
```

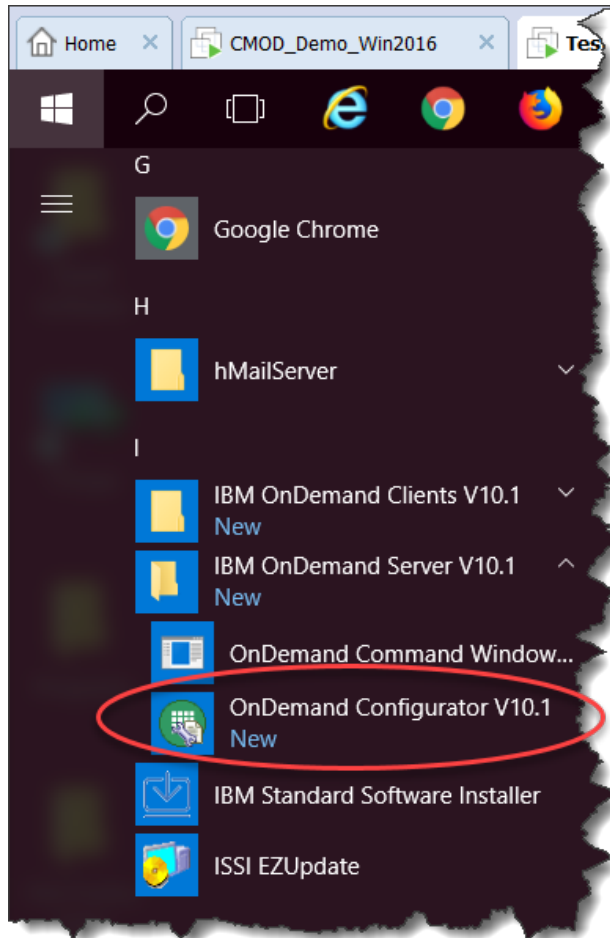




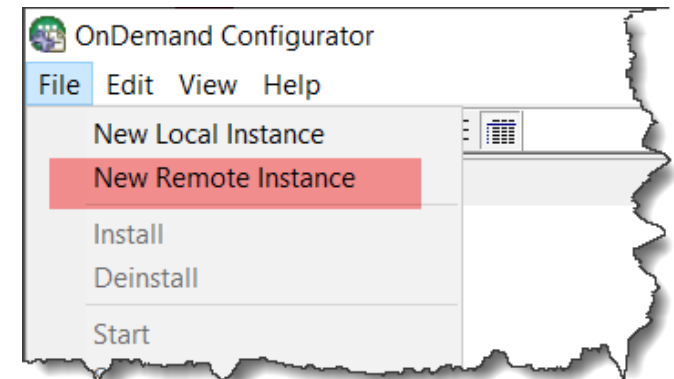
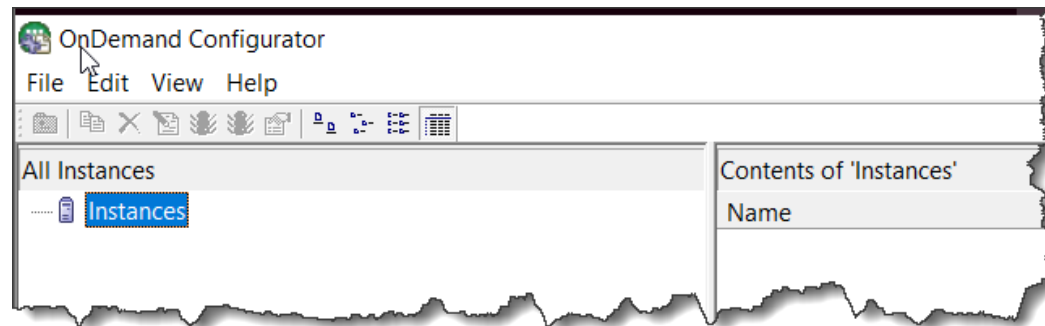
Setting up the Remote server



Setting up the Remote instance



- Open “OnDemand Configurator” in Windows startup
- You can see we do not have any Instances
- Click on “File”
- Click on “New Remote Instance” from drop down



Setting up the Remote instance cont..

On the Instance Panel

- Type in “name” for your instance (does not have to match your main CMOD server)
- Type in “TCP/IP address” to your main CMOD server
- Type in directory for Temporary work (C:\arstemp is the default.)
- Click on “**Next**”

Instance

Remote Instance Name

A remote instance is a functional entity to communicate with a remote OnDemand library server. Enter a name for the instance.

ODREMSVR

Remote Library Server Name

Enter a TCP/IP host name alias, fully qualified host name, or IP address of the remote library server.

192.168.1.10

Temporary File Path

c:\arstmp Browse...

☐ Enable Trace

The following trace parameter file controls the trace activity in OnDemand. To select another trace parameter file, click Browse.

C:\IBM\OnDemand\V10.1\config\trace.settings Browse

Parameters

< Back Next > Cancel Help

Setting up the Remote instance cont..

Server Communications

Password Stash File
To select another password stash file, click Browse.

C:\IBM\OnDemand\V10.1\config\ODREMSVR.stash Browse

Non-SSL Port Number
Enter a positive integer for the port number to be used for communications between this server instance and its clients.

☒ Enable 1445

SSL Port Number
Enter a positive integer for the SSL port number to be used for secure socket layer communications between this server instance and its clients.

☐ Enable

SSL Key Ring File
Enter or select an SSL key ring file.

C:\IBM\OnDemand\V10.1\config\ondemand.kdb Browse...

SSL Key Ring Stash File
Enter or select an SSL key ring stash file.

C:\IBM\OnDemand\V10.1\config\ondemand.sth Browse...

SSL Key Ring Label
Enter a string to be used as the SSL key ring label.

IBM Content Manager OnDemand

☐ Use SSL by default for server based command (i.e. arsmaint, arsdac, ...)

< Back Next > Cancel Help

On the Server Communications Panel

- You can take the defaults (unless you need to make changes to match your environment)
- Click on “**Next**”

Setting up the Remote instance cont..

On the Load Panel

- Type in User ID “**admin**” and Password “**demo**” (for our labs) to be used for loading
- Click on “**Add**” in the Data Directories section
- Enter or browse to a directory for placing data to be loaded in CMOD. “**C:\arsload**” is the default
- Click “**OK**”
- Click on “**Next**”

Load

OnDemand Login

Enter an OnDemand user ID and a password to be used for the load process. The user ID and password will be stored in the password stash file defined for the instance.

User ID:

Password:

Data Directories (an asterisk * indicates it is assigned)

Add at least one directory to be used for the data loading and MVS download services.

Add a Directory

Enter a directory name

< Back Next > Cancel Help

Setting up the Remote instance cont..

The screenshot shows the 'Distribution' panel with the following fields and controls:

- OnDemand Login:** User ID: , Password: . Print Tasks (1-100): .
- Working Directory:** Enter or select a directory for the distribution process to store temporary files.
- Output File Location:** Enter or select a directory for the distribution process to store output files.
- Java Application Launcher Path:** Enter the full path name for java.exe. You can use the browse button to locate the program.
- Sleep Time (1-86400 seconds):**
 - Distribution Sleep Time:
 - Continuation Sleep Time:
 - Scheduled Sleep Time:

At the bottom, there are four buttons: < Back, **Finish** (highlighted with a red arrow), Cancel, and Help.

On the Distribution Panel

The Distribution refers to the OnDemand Distribution Facility feature, which may or may not be installed. But we need to complete this panel.

Type in User ID “**admin**” and Password “**demo**” (for our labs) to be used for (main) CMOD access

- Take defaults for Working Dir and Output File Location
- For JAVA, browse to the location of installed JAVA “**C:\JAVA\bin\java.exe**”
- Take all other defaults
- Click on “**Finish**”

Setting up the Remote instance cont..

On the Install Service Panel

- Type in the Administrator password “**demo**”
- Click on “**OK**”

Install Service

Log On As
Specify the user account information that the service should use to log on to the system.

User ID: Administrator

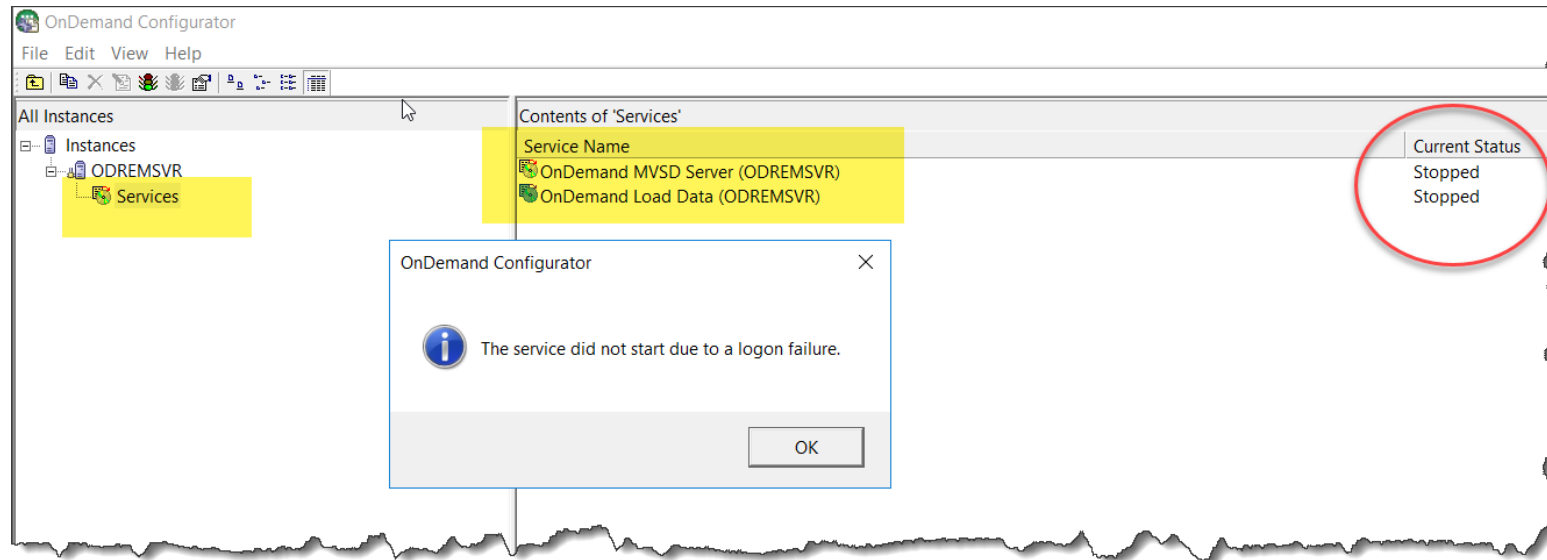
Password: [Redacted]

Confirm Password: [Redacted]

☐ This User ID does not have a password.

OK Cancel Help

Starting Load Data Service

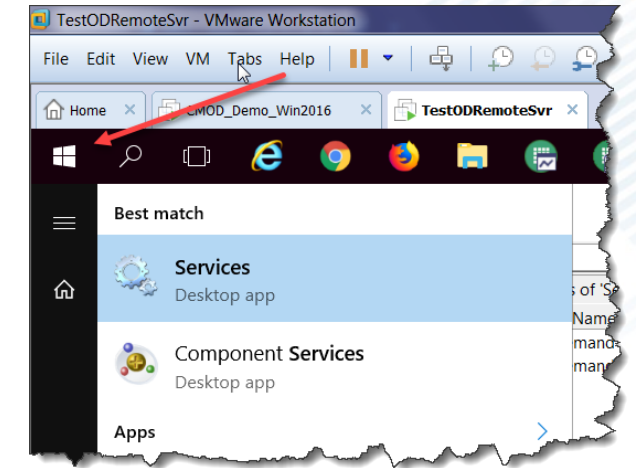
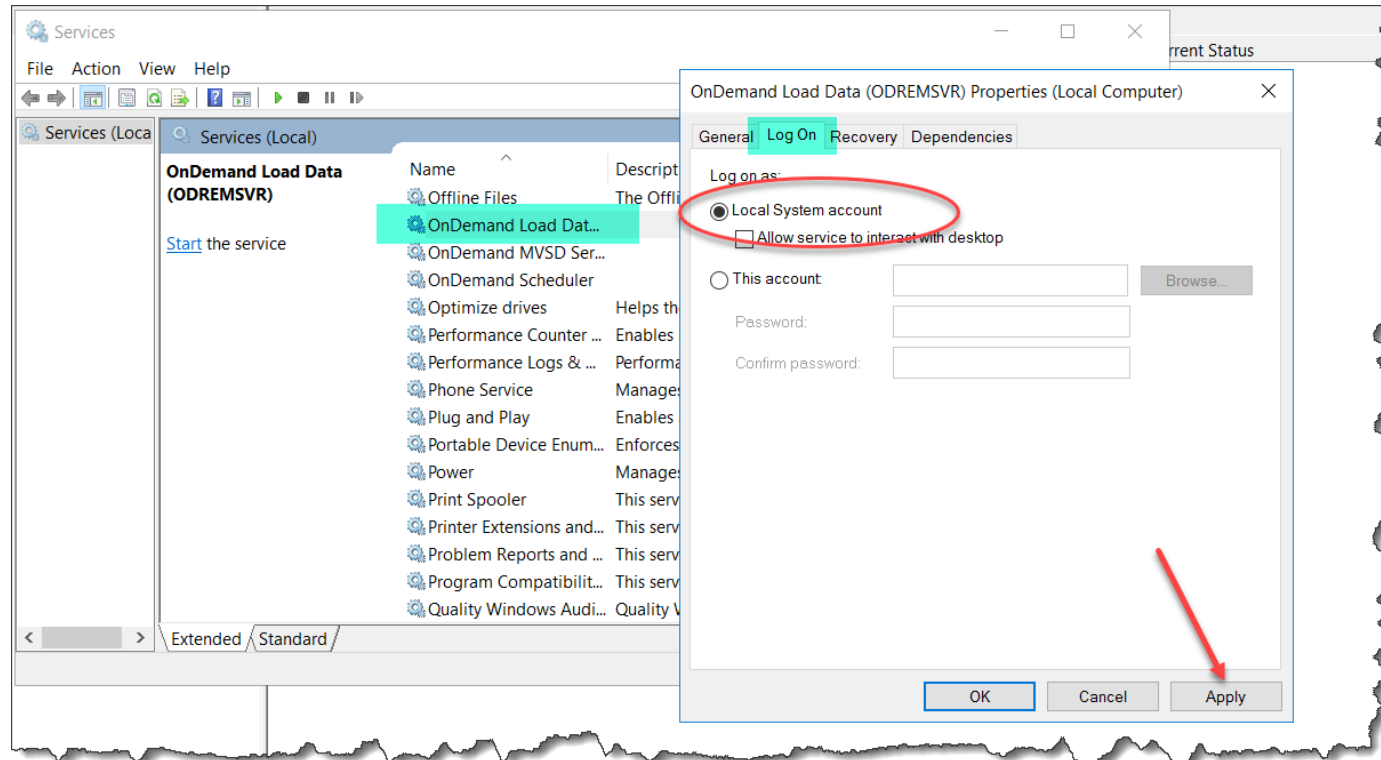


You should see your new Instance (ODREMSVR) in the Configurator

- Expand “+” the instance and you will see Services. The Remote Instance installs two services, OnDemand MVSD and OnDemand Load Data. MVSD is for downloading data from an zOS (mainframe) and will not be covered in this Lab. Load Data is for, as the name implies, loading data. We need this service for the Lab.
- If you “**right click**” on “OnDemand Load Data” and try to “**Start**” the service, you will get a logon failure error. We need to fix that by going to Windows Services
- Click on “**OK**”

Fixing Window Service issue

- Opened “Windows Services” (click on “Windows Start icon”, type in “Services”, open Services)
- Scroll down to “OnDemand Load Data” service
- “Right click”



- Click on “Properties”
- Click on “Log On” tab
- Click on “Local System account”
- Click on “Apply”
- Click on “OK”
- “Right click” on “OnDemand Load Data” service and “Start”
- Service should now start and show as “Running”

Recap

- You set up a VMWare image to install a remote instance of CMOD
- You configured communications between your remote instance and the main CMOD server
- You installed CMOD
- You installed one or more CMOD features (PDF Indexer in this Lab)
- You updated CMOD and Features by installing CMOD Fixpack
- You installed CMOD Clients
- You set up your remote instance and connected it to your main CMOD server
- You set up the OnDemand Load Data server (a Windows Services)



- **Now we will show you how to use your new remote CMOD instance (server)....!**



PDF Indexing (remotely)



Remote - PDF Indexing

You should have a functional remote CMOD Server for PDF Indexing (or other things)

- You can use the ARSLOAD command **or** the automatic CMOD Load Data service (which you started earlier) just like you would use on your main CMOD server.
- When you use the ARSLOAD or Load Data service on the remote CMOD server, all the indexing and compression is done on the remote server, BUT, loaded on your main CMOD server! So, you are off loading most of the work for loading from your main CMOD to your remote CMOD system.

Loading the data using ARSLOAD command from .bat file

- You should see the data loading

```
Administrator: OnDemand Command Prompt
2019-07-18 01:19:16.824621: ARS4334I Load Version <10.1.0.4> Operating System <Windows 64> <10.0.14393.2430> OS Userid
<ADMIN> Install Location <C:\IBM\OnDemand\V10.1\>
2019-07-18 01:19:16.840101: ARS4335I Server Version <10.1.0.4> Operating System <Windows 64> <10.0.14393.2430> Databas
e <DB2> <11.01.0404>
2019-07-18 01:19:16.902884: ARS4339I Application Group >GRN Bank<
2019-07-18 01:19:16.918317: ARS4340I Application >GRN Bank<
2019-07-18 01:19:16.918317: ARS4341I Storage Set >Cache Only - Library Server<
2019-07-18 01:19:16.918317: ARS4342I Storage Node >Cache Only - Library Server<
2019-07-18 01:19:16.918317: ARS4347I Encryption >None<
2019-07-18 01:19:17.824470: ARS4302I Indexing started, 80056771 bytes to process
: ARS4901I INDEXMODE=INTERNAL
: ARS4901I RESTYPE=ALL
: ARS4901I PARMDD=C:\Labs\DEMO_L~1\GRN_Bank.pdf.parm
: ARS4901I INPUTDD=C:\Labs\Demo_Load_Data\PDF_Data\GRN_Bank.pdf
: ARS4901I OUTPUTDD=C:\Labs\DEMO_L~1\GRN_Bank.pdf.out
: ARS4901I INDEXDD=C:\Labs\DEMO_L~1\GRN_Bank.pdf.ind
: ARS4901I RESOBJDD=C:\Labs\DEMO_L~1\GRN_Bank.pdf.res
: ARS4902I Number of input pages = 13742
: ARS4922I ARSPDOCI 10.1.0.4 completed code 0
2019-07-18 01:19:39.480823: ARS4308I Indexing completed
2019-07-18 01:19:39.480823: ARS4312I Loading started, --UNKNOWN-- bytes to process
2019-07-18 01:19:39.621506: ARS1140I Resource C:\Labs\DEMO_L~1\GRN_Bank.pdf.res matches the resource >2-1-0<
2019-07-18 01:19:41.152770: ARS1144I OnDemand Load Id = >5243-1-0-3FAA-20150325000000-20150325000000-5244<
2019-07-18 01:19:45.450145: ARS1146I Loaded 3840 rows into the database
2019-07-18 01:19:45.480847: ARS1175I Document compression type used - 0D77 Bytes Stored = >31073640< Rows = >3840<
2019-07-18 01:19:45.496390: ARS4310I Loading completed
2019-07-18 01:19:45.527689: ARS4317I Processing successful for file >C:\Labs\Demo_Load_Data\PDF_Data\GRN_Bank.pdf<
2019-07-18 01:19:45.543303: ARS4348I Load Statistics: Index In >80,056,771< Load In >58,353,319< Load Out >31,073,640<
Rows >3,840< Pages >13,742< Time >28.7330< Resource In >759,305< Resource Out >759,305<
C:\Labs\Demo_Load_Data>
```


Checking that the data loaded on main CMOD server

- To check if the data “really” was loaded on the main CMOD server
- **Go to** the main CMOD server
- **Open** the “OnDemand Client”, logon
- **Open** the “System Load” Folder
- **Search** today (or just hit enter) and you should see two loads, one from the manual ARSLOAD command and one from the Load Data service



OnDemand

File Edit View Search Notes Options Window Help

System Load - Search Criteria and Document List

Search Criteria

Application Group Name	Like	<input type="text"/>
Application Name	Like	<input type="text"/>
Load Id	Like	<input type="text"/>
Agid	Equal To	<input type="text"/>
Load Name	Like	<input type="text"/>
Input File Name	Like	<input type="text"/>
Document Date	Equal To	<input type="text"/>
Load Time	Equal To	2019-07-18

Document List

Load Time	Application Group Name	Application Name
2019-07-18 04:47:24.409830	GRN Bank	GRN Bank
2019-07-18 04:19:44.656709	GRN Bank	GRN Bank

