WebSphere MQ File Transfer Edition (FTE) - Basic Step-by-Step Configuration and Setup

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WebSphere® Support Technical Exchange

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Agenda

- What is MQFTE
- Why use it
- How to setup MQFTE
    - ▸ Install
    - ▸ Setup
- Setup end to end MQFTE
- FTE directory structure & logs
- Some of the features MQFTE
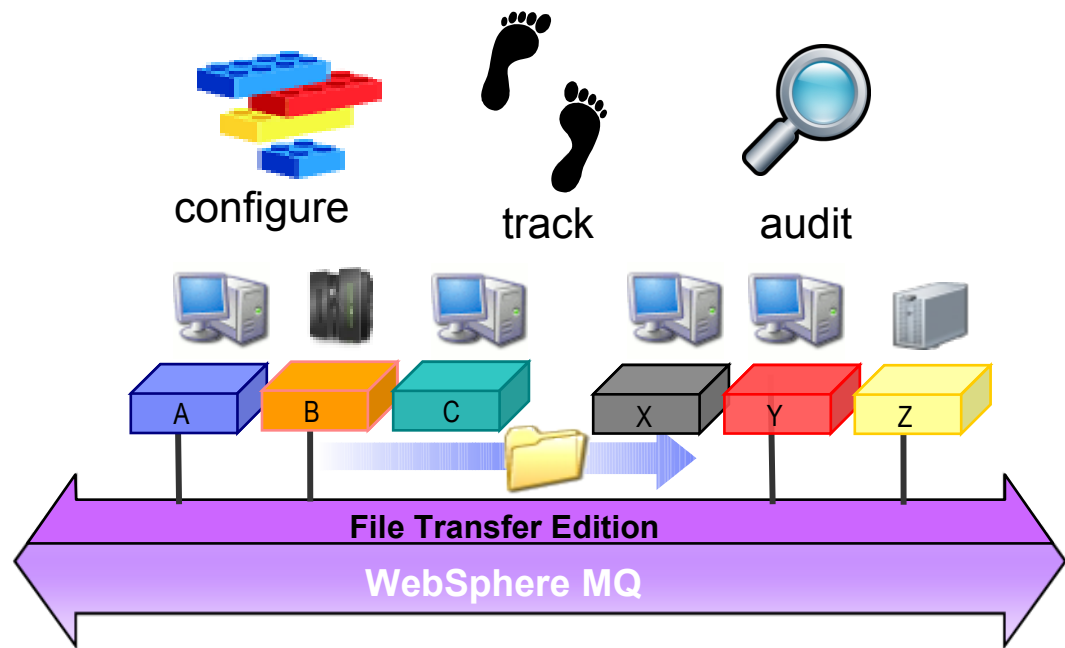- Question and Answers

What is MQFTE

- WebSphere MQ File Transfer Edition (MQFTE) transfers files between systems in a managed and auditable way, regardless of file size or the operating systems used.
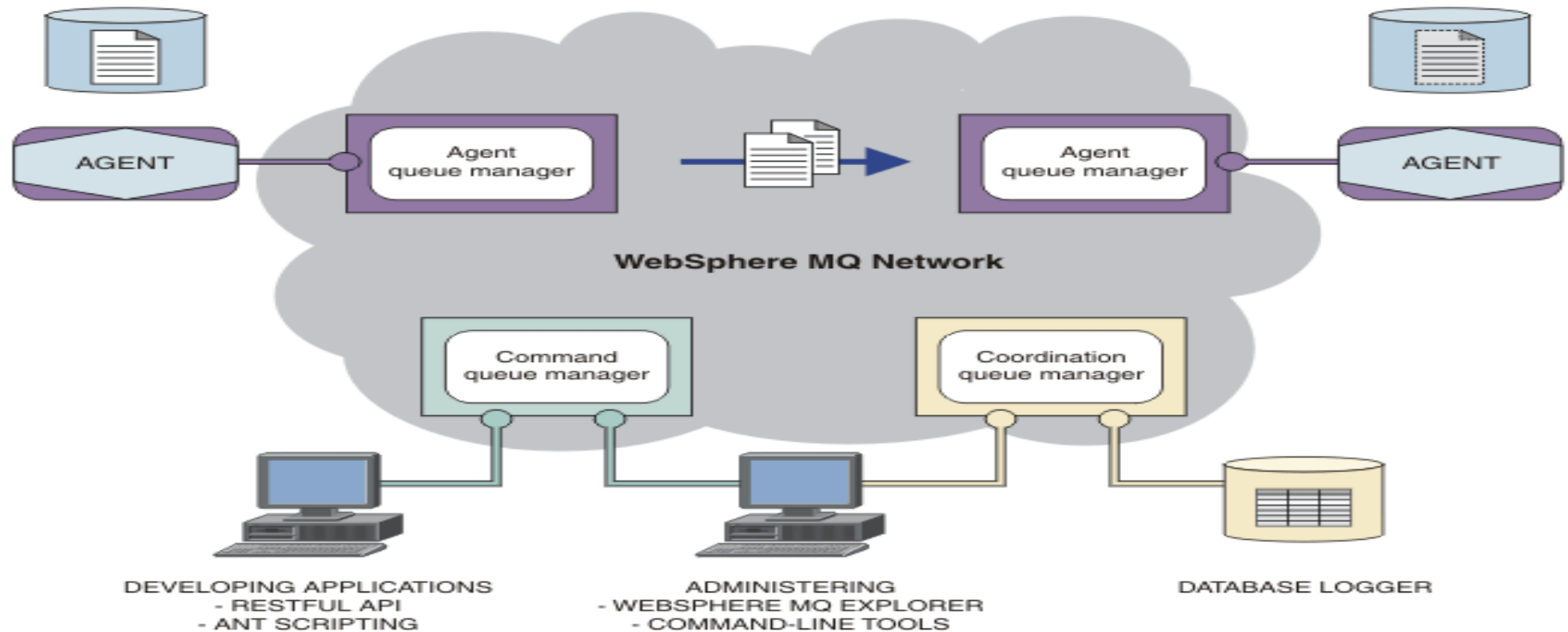
Why MQFTE

- Compared to regular FTP these are the advantages

  - Reliability

  - Security

  - Automation

  - Visibility

  - Flexibility

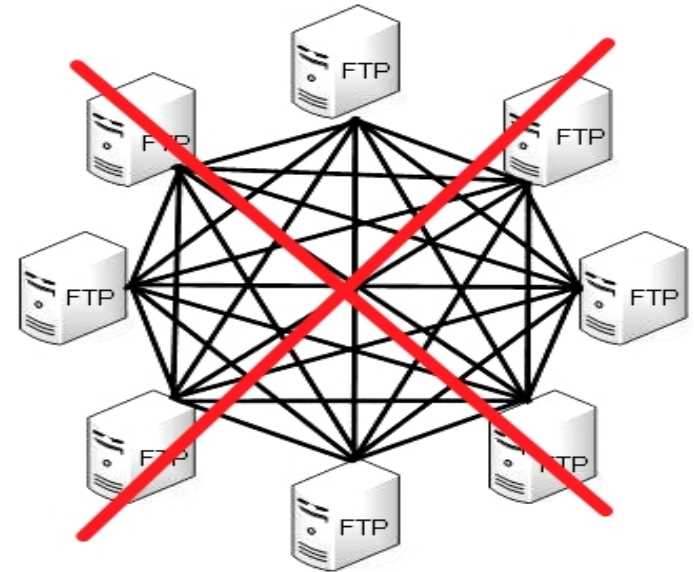 - Integrated

    - (e.g. WebSphere DataPower, WebSphere Message Broker, Tivoli etc)

configure   track   audit

File Transfer Edition

WebSphere MQ

MQFTE vs FTP

- Any file size (Kb, Mb, Gb, Tb…)
- Reliable delivery leveraging MQ
- Guaranteed 100% Integrity
- Full logging for audit purpose
- High Performance
- Character set conversion
- Very Secure with Industry standard SSL security
- XML scripting (Ant Scripting) for distributed job automation
- Multi-purpose solution – transports both messages and files
- Supports many platforms
- Multi-instance so fail-over capability

▸ Learn more about it on Information Week webcast

(https://www.techwebonlineevents.com/ars/eventregistration.do?mode=eventreg&F=1003640&K=CAA1AC)

Major Players in MQFTE

- **Agent**

  ▶ FTE agent is a process which transfers to and from another agent

- **Agent Queue Manager**

  ▶ A queue manager that hosts an agent's queues.
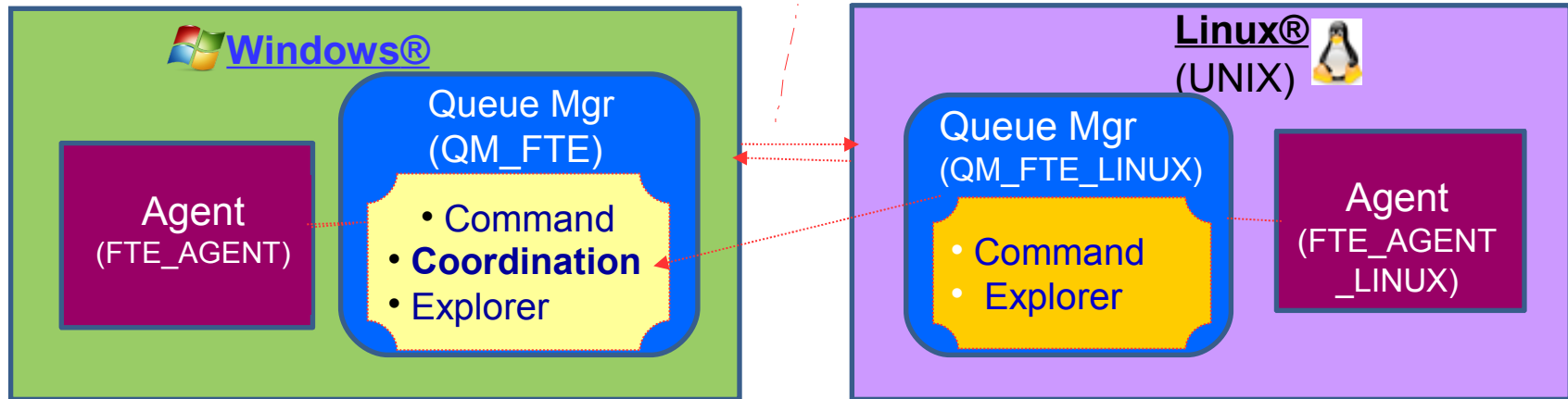
- **Coordination Queue Manager**

  ▶ The coordination queue manager broadcasts audit of file transfer also this QM in the MQ network that acts as a central location.

- **Command Queue Manager**

  ▶ The command queue manager is used to connect to the WebSphere MQ network and is the queue manager connected to when you issue MQFTE commands

How to setup MQFTE

Sender/Receiver Channel

Windows®

Queue Mgr
(QM_FTE)

Agent
(FTE_AGENT)

- Command
- **Coordination**
- Explorer

Linux®
(UNIX)

Queue Mgr
(QM_FTE_LINUX)

Agent
(FTE_AGENT
_LINUX)

- Command
- Explorer

- **Ingredients (Prerequisites)**

  ▸ MQ File Transfer Edition V7.0.4 – Server (has a server code will be used on both side)

  ▸ MQ File Transfer Edition V7.0.4 -- Documentation and Tools (has plug-in for MQ Explorer)

  ▸ MQ V7.0.1 or later and MQ Explorer

  ▸ Working knowledge of MQ where a queue manager already defined and started. Here we have QM_FTE and talk about it later.

Installation on MQFTE

For Windows Server Code Search for : CZXU0ML 🔍
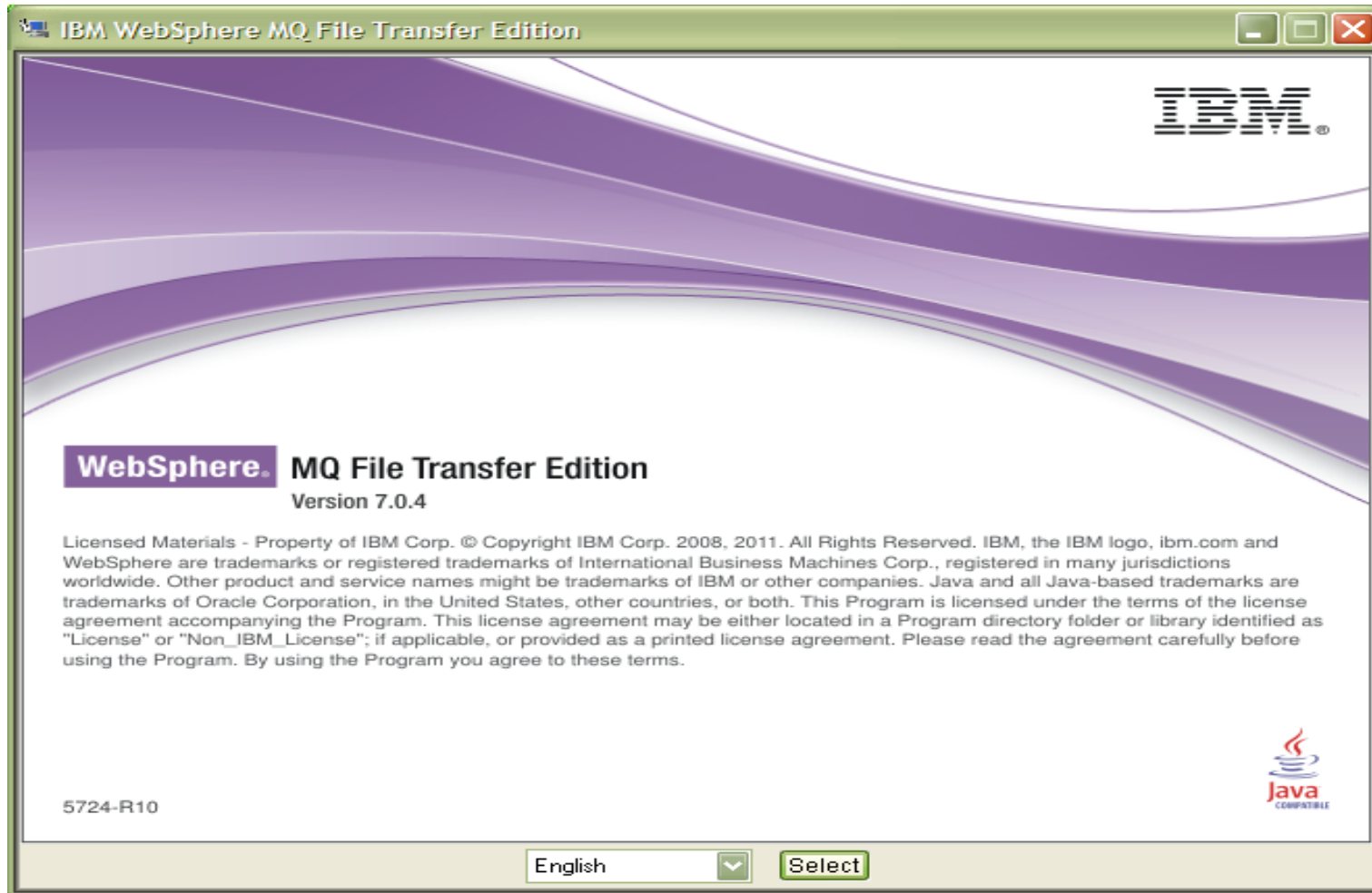
Before you do this install

- Make sure you have Websphere MQ installed on that system.
- For this presentation, using MQ V7.0.1.6 (latest fix pack)
- Have a Queue Manager created here we have create a QM called QM_FTE
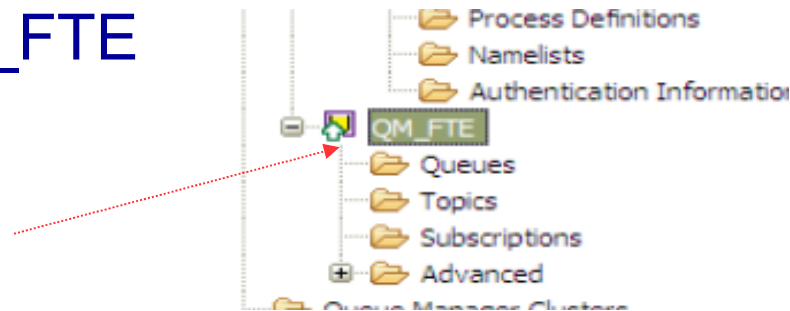
- If you need help above setup review Quick Beginning guide here : (http://publib.boulder.ibm.com/infocenter/wmqv7/v7r0/topic/com.ibm.mq.amqtac.doc/wq109 20_.htm)

Installation on MQFTE (After accepting Licence agreement 🔆 and other basic steps)

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Choose a Folder

✓ Introduction
✓ License Agreement
▶ Install Feature Set
▷ Choose Install Folder
▷ Queue Manager
▷ Queue Manager Details
▷ Pre-Installation Summary
▷ Installing...
▷ Install Complete

Select a directory to install the product

Product Install folder:

C:\Program Files\IBM\WMQFTE

Restore Default Folder   Choose...

This is where executable

InstallAnywhere

Cancel   Help   Previous   Next

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Choose a Folder

- ✓ Introduction
- ✓ License Agreement
- ▶ Install Feature Set
- ▷ Choose Install Folder
- ▷ Queue Manager
- ▷ Queue Manager Details
- ▷ Pre-Installation Summary
- ▷ Installing...
- ▷ Install Complete

Select a folder to store your product data

Configuration folder:

C:\var\ibm\WMQFTE\config

Restore Default Folder   Choose...

Changed from default to similar to
UNIX : /var/ibm/WMQFTE/config
As default for windows can be very long

InstallAnywhere

Cancel   Help   Previous   Next

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Enter Coordination Queue Manager Name

- ✔ Introduction
- ✔ License Agreement
- ✔ Install Feature Set
- ✔ Choose Install Folder
- ▶ Queue Manager
- ▷ Queue Manager Details
- ▷ Pre-Installation Summary
- ▷ Installing...
- ▷ Install Complete

☐ Skip configuration

Coordination Queue Manager Name:

QM_FTE

Connect using the following transport mode:

◉ Bindings   ○ Client

As showed on slide # 9
Earlier created QM name for simplicity
all the QM will be the same name

Here we are going too choose
Bindings mode

For Client mode you will need
Port, host and channel name
And so on..

InstallAnywhere

Cancel   Help   Previous   Next

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Enter agent queue manager details

✔ Introduction
✔ License Agreement
✔ Install Feature Set
✔ Choose Install Folder
▶ Queue Manager
▷ Queue Manager Details
▷ Pre-Installation Summary
▷ Installing...
▷ Install Complete

Enter the name of your agent:
FTE_AGENT

Agent description:
FTE Agent

Enter the agent's queue manager name:
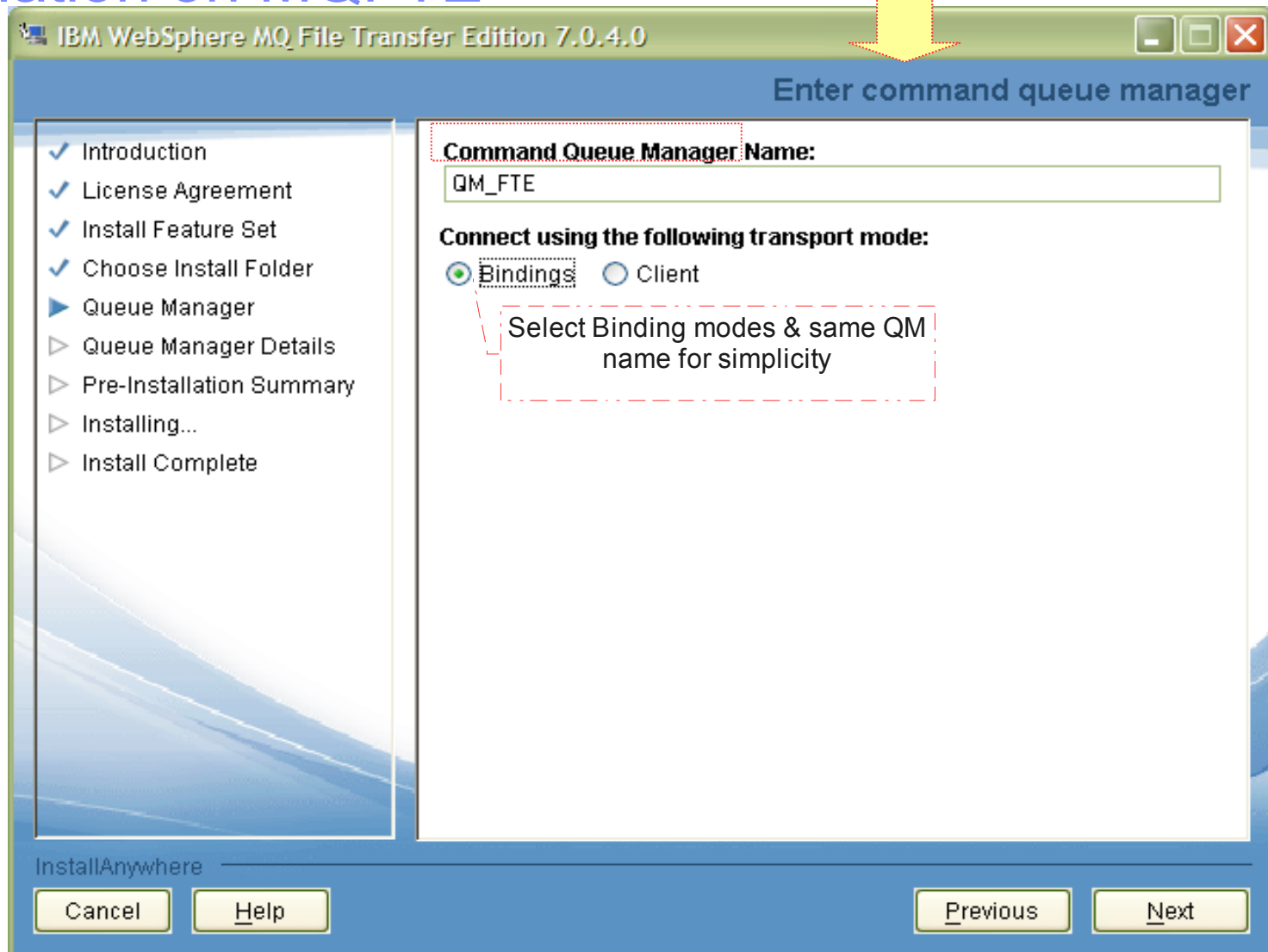QM_FTE

Connect using the following transport mode:
⦿ Bindings   ○ Client
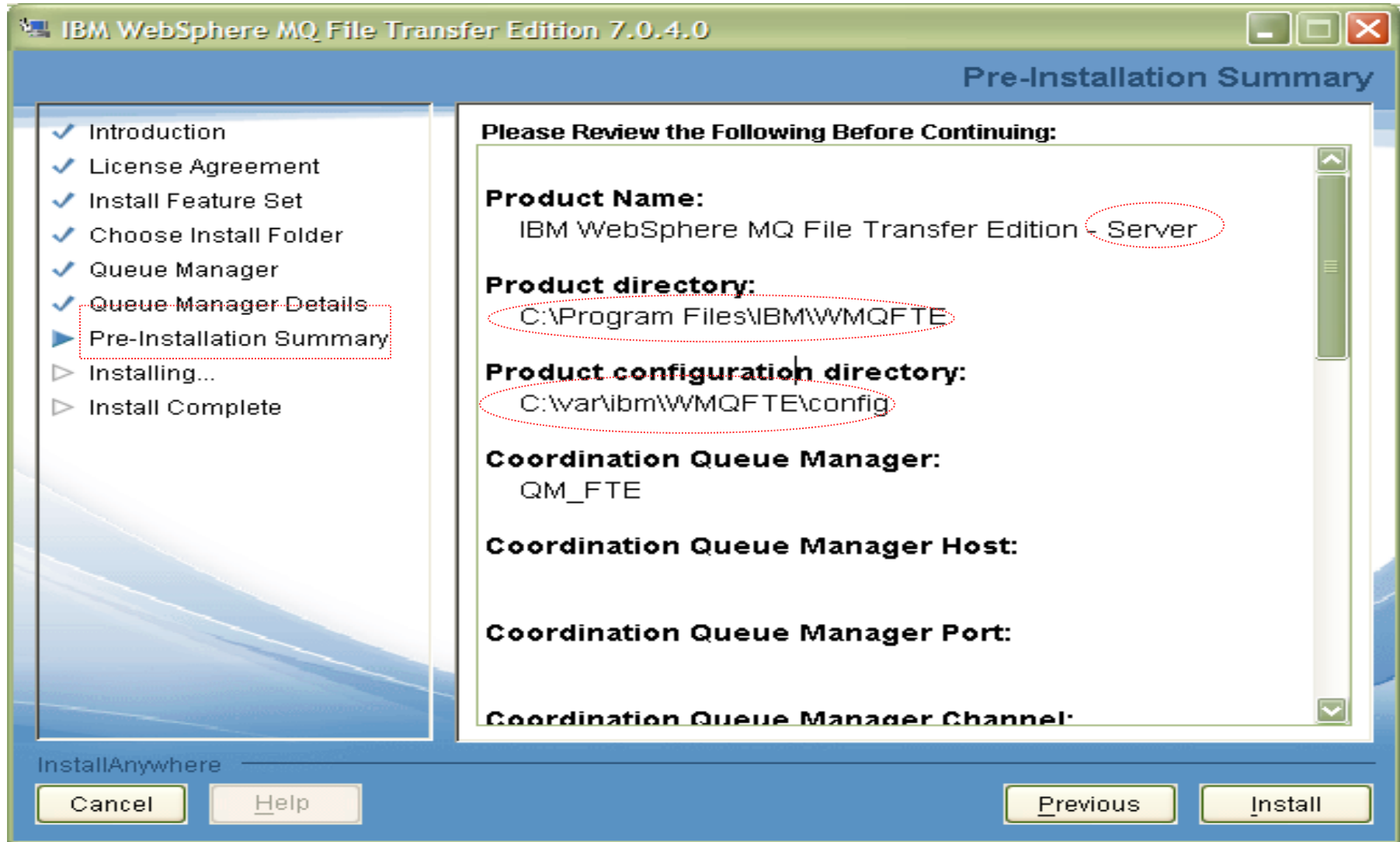
Here we are going too choose
Bindings mode

InstallAnywhere
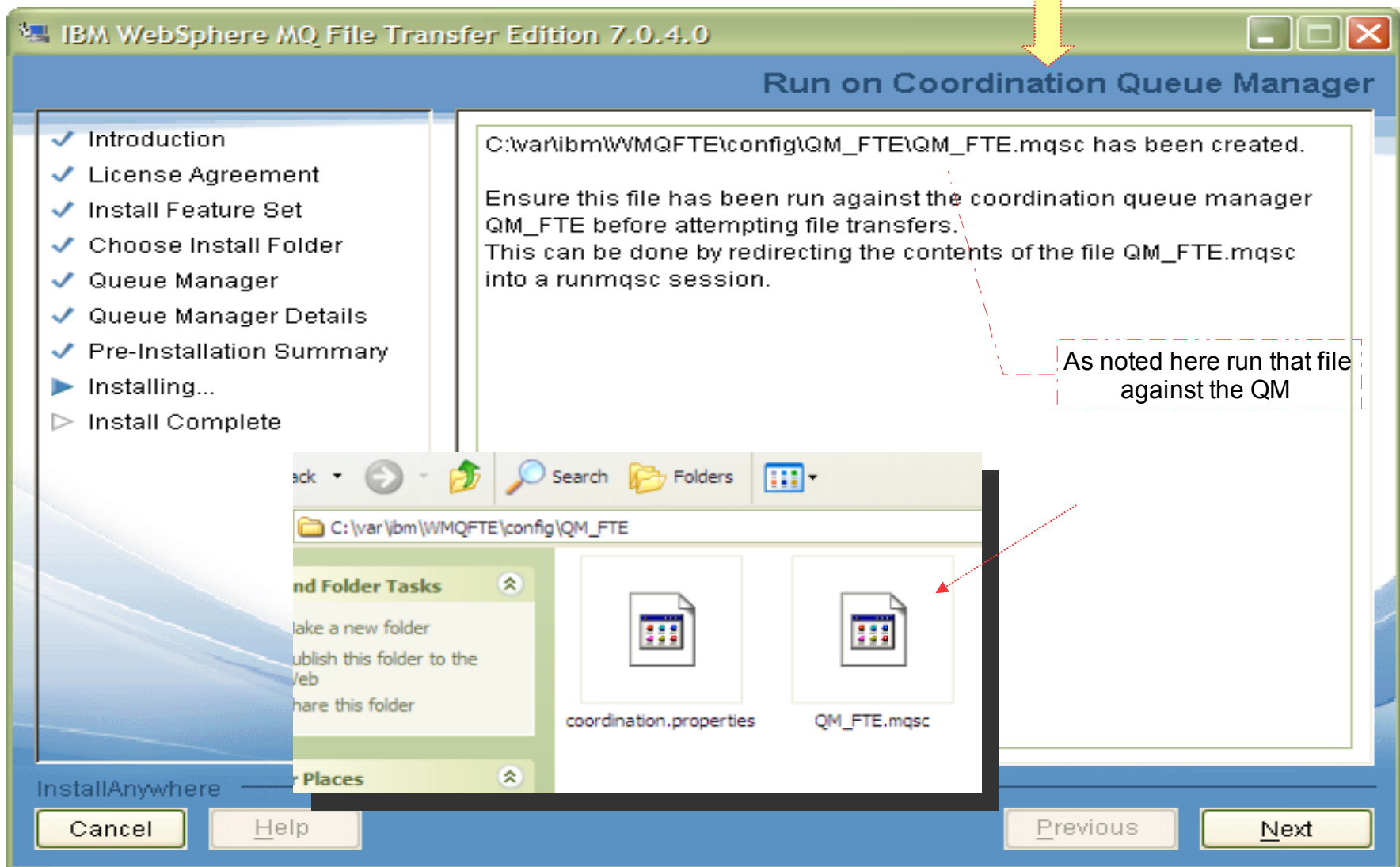
Cancel   Help   Previous   Next

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Enter command queue manager

- ✓ Introduction
- ✓ License Agreement
- ✓ Install Feature Set
- ✓ Choose Install Folder
- ▶ Queue Manager
- ▷ Queue Manager Details
- ▷ Pre-Installation Summary
- ▷ Installing...
- ▷ Install Complete

Command Queue Manager Name:

QM_FTE

Connect using the following transport mode:

◉ Bindings   ○ Client

Select Binding modes & same QM name for simplicity

InstallAnywhere

Cancel   Help   Previous   Next

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Pre-Installation Summary

- ✓ Introduction
- ✓ License Agreement
- ✓ Install Feature Set
- ✓ Choose Install Folder
- ✓ Queue Manager
- ✓ Queue Manager Details
- ► Pre-Installation Summary
- ▷ Installing...
- ▷ Install Complete

Please Review the Following Before Continuing:

Product Name:
IBM WebSphere MQ File Transfer Edition - Server

Product directory:
C:\Program Files\IBM\WMQFTE

Product configuration directory:
C:\var\ibm\WMQFTE\config

Coordination Queue Manager:
QM_FTE

Coordination Queue Manager Host:

Coordination Queue Manager Port:

Coordination Queue Manager Channel:

InstallAnywhere

Cancel   Help   Previous   Install

Installation on MQFTE

As noted here run that file against the QM
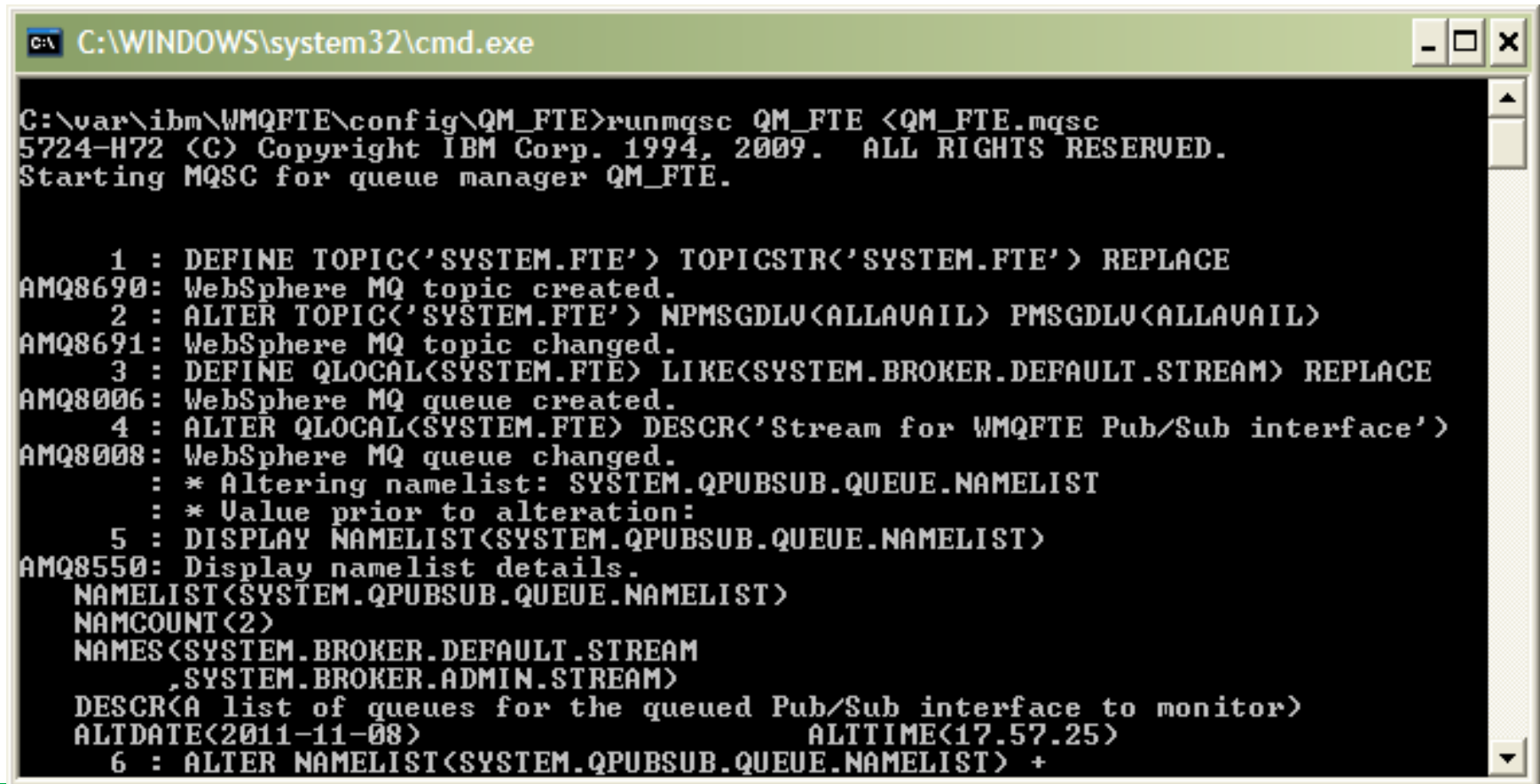
Installation on MQFTE

- As showed below running:
  runmqsc QM_FTE < QM_FTE.mqsc

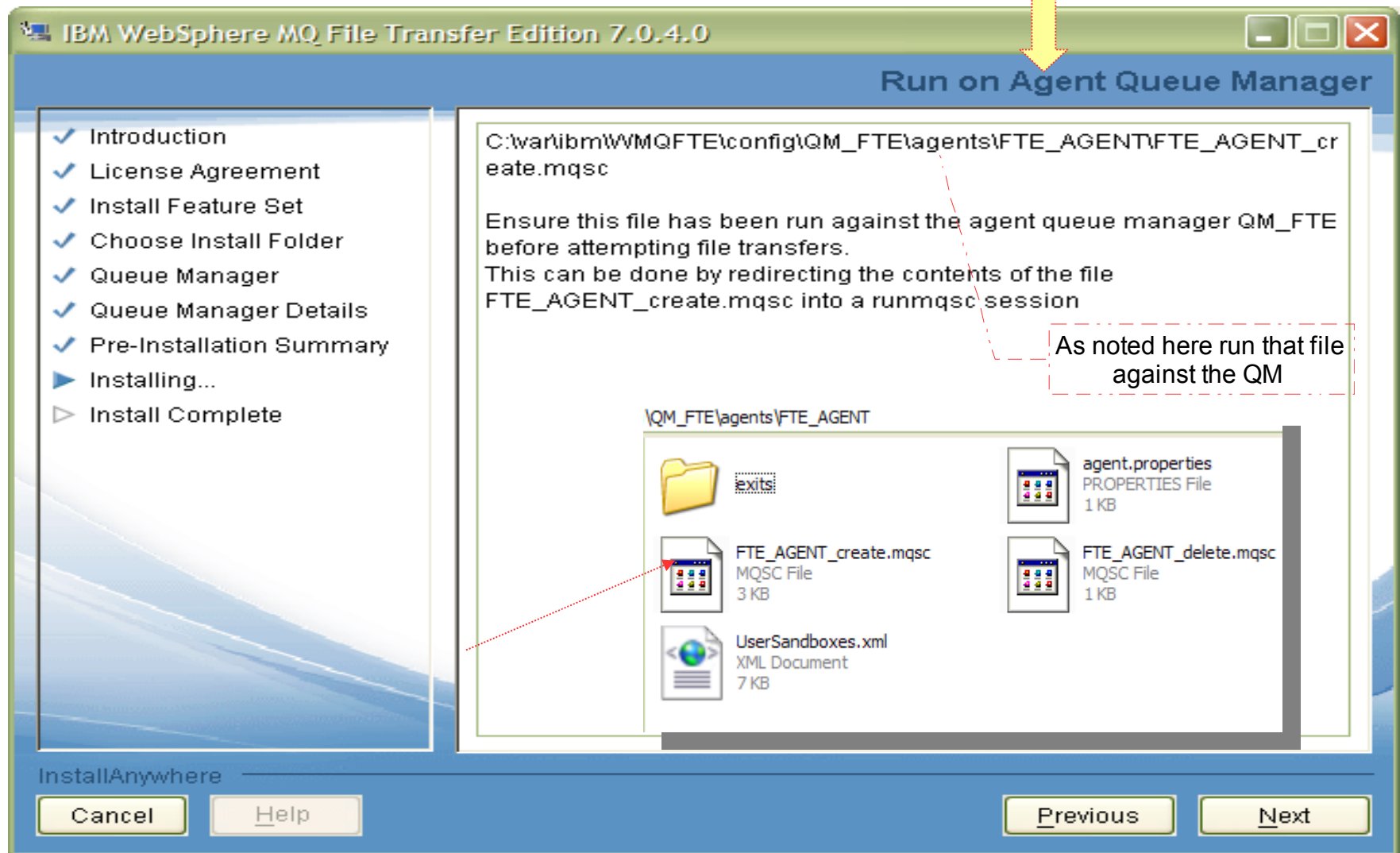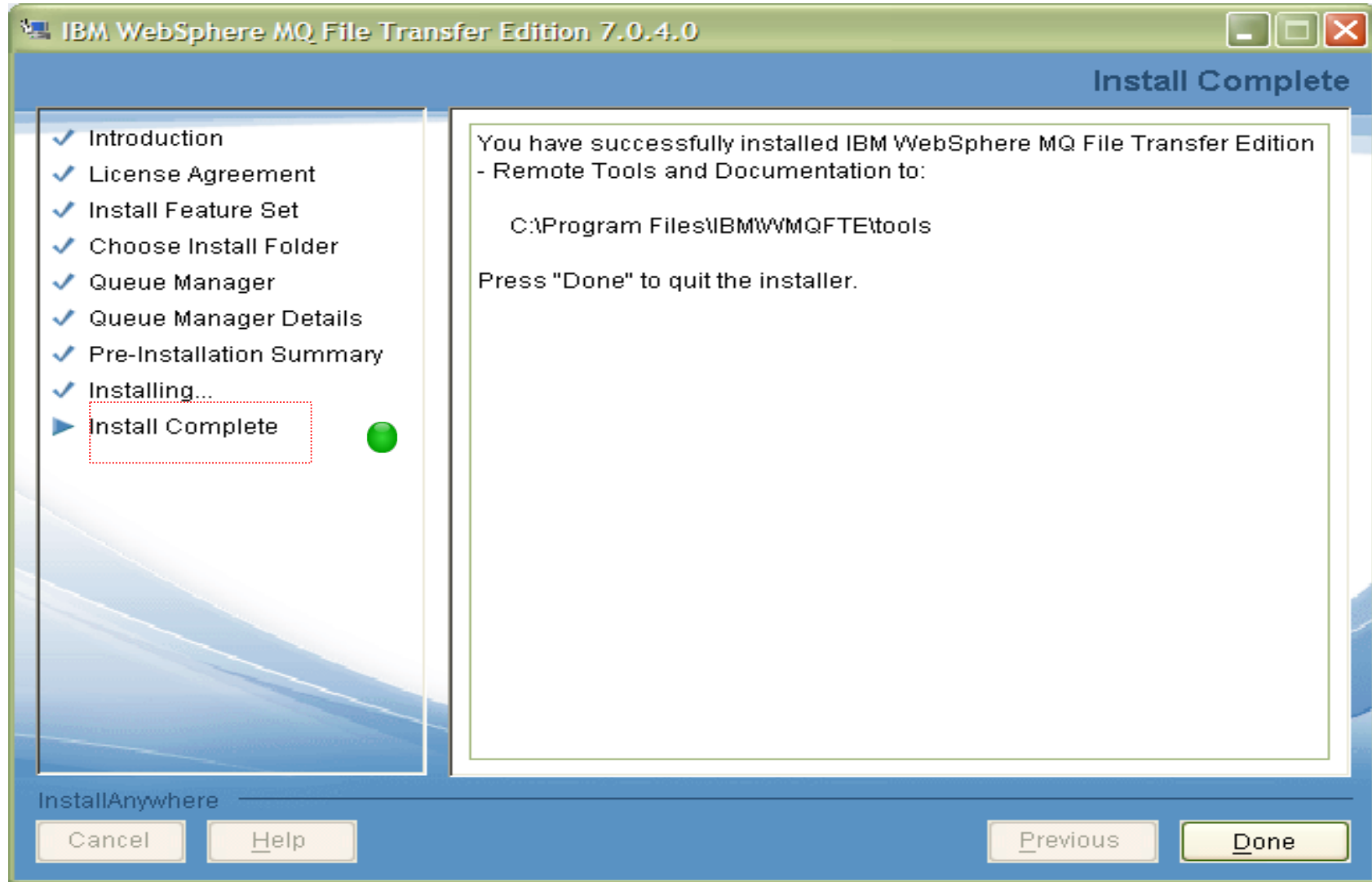```
C:\WINDOWS\system32\cmd.exe   _ □ ×

C:\var\ibm\WMQFTE\config\QM_FTE>runmqsc QM_FTE <QM_FTE.mqsc
5724-H72 (C) Copyright IBM Corp. 1994, 2009. ALL RIGHTS RESERVED.
Starting MQSC for queue manager QM_FTE.

    1 : DEFINE TOPIC('SYSTEM.FTE') TOPICSTR('SYSTEM.FTE') REPLACE
AMQ8690: WebSphere MQ topic created.
    2 : ALTER TOPIC('SYSTEM.FTE') NPMSGDLV(ALLAVAIL) PMSGDLV(ALLAVAIL)
AMQ8691: WebSphere MQ topic changed.
    3 : DEFINE QLOCAL(SYSTEM.FTE) LIKE(SYSTEM.BROKER.DEFAULT.STREAM) REPLACE
AMQ8006: WebSphere MQ queue created.
    4 : ALTER QLOCAL(SYSTEM.FTE) DESCR('Stream for WMQFTE Pub/Sub interface')
AMQ8008: WebSphere MQ queue changed.
    : * Altering namelist: SYSTEM.QPUBSUB.QUEUE.NAMELIST
    : * Value prior to alteration:
    5 : DISPLAY NAMELIST(SYSTEM.QPUBSUB.QUEUE.NAMELIST)
AMQ8550: Display namelist details.
   NAMELIST(SYSTEM.QPUBSUB.QUEUE.NAMELIST)
   NAMCOUNT(2)
   NAMES(SYSTEM.BROKER.DEFAULT.STREAM
       ,SYSTEM.BROKER.ADMIN.STREAM)
   DESCR(A list of queues for the queued Pub/Sub interface to monitor)
   ALTDATE(2011-11-08)   ALTTIME(17.57.25)
    6 : ALTER NAMELIST(SYSTEM.QPUBSUB.QUEUE.NAMELIST) +
```

# Installation on MQFTE



IBM WebSphere MQ File Transfer Edition 7.0.4.0

**Run on Agent Queue Manager**

- ✓ Introduction
- ✓ License Agreement
- ✓ Install Feature Set
- ✓ Choose Install Folder
- ✓ Queue Manager
- ✓ Queue Manager Details
- ✓ Pre-Installation Summary
- ▶ Installing...
- ▷ Install Complete

C:\var\ibm\WMQFTE\config\QM_FTE\agents\FTE_AGENT\FTE_AGENT_create.mqsc

Ensure this file has been run against the agent queue manager QM_FTE before attempting file transfers.
This can be done by redirecting the contents of the file FTE_AGENT_create.mqsc into a runmqsc session

As noted here run that file against the QM

\QM_FTE\agents\FTE_AGENT

exits

agent.properties
PROPERTIES File
1 KB

FTE_AGENT_create.mqsc
MQSC File
3 KB

FTE_AGENT_delete.mqsc
MQSC File
1 KB

UserSandboxes.xml
XML Document
7 KB

InstallAnywhere

Cancel     Help                    Previous     Next

# Installation on MQFTE

- As showed below running:
  runmqsc QM_FTE < FTE_AGENT_create.mqsc

```
C:\WINDOWS\system32\cmd.exe                                          _ □ ✕

C:\var\ibm\WMQFTE\config\QM_FTE\agents\FTE_AGENT>runmqsc QM_FTE <FTE_AGENT_creat
e.mqsc
5724-H72 (C) Copyright IBM Corp. 1994, 2009.  ALL RIGHTS RESERVED.
Starting MQSC for queue manager QM_FTE.


        1 : DEFINE QLOCAL(SYSTEM.FTE.COMMAND.FTE_AGENT) +
          : DEFPRTY(0) +
          : DEFSOPT(SHARED) +
          : GET(ENABLED) +
          : MAXDEPTH(5000) +
          : MAXMSGL(4194304) +
          : MSGDLVSQ(PRIORITY) +
          : PUT(ENABLED) +
          : RETINTVL(999999999) +
          : SHARE +
          : NOTRIGGER +
          : USAGE(NORMAL) +
          : REPLACE
AMQ8006: WebSphere MQ queue created.
        2 : DEFINE QLOCAL(SYSTEM.FTE.DATA.FTE_AGENT) +
          : DEFPRTY(0) +
          : DEFSOPT(SHARED) +
          : GET(ENABLED) +
```

Installation on MQFTE

IBM WebSphere MQ File Transfer Edition 7.0.4.0

Install Complete

- ✓ Introduction
- ✓ License Agreement
- ✓ Install Feature Set
- ✓ Choose Install Folder
- ✓ Queue Manager
- ✓ Queue Manager Details
- ✓ Pre-Installation Summary
- ✓ Installing...
- ▶ Install Complete

You have successfully installed IBM WebSphere MQ File Transfer Edition - Remote Tools and Documentation to:

C:\Program Files\IBM\WMQFTE\tools

Press "Done" to quit the installer.

InstallAnywhere

Cancel   Help   Previous   Done

Createing MQFTE Agents (fteCreateAgent)

This is where mqfte commands can be run

- Let's create one more agent name :FTE_AGENT2 via command line as initially noted on slide # 13 which was created via GUI

```
C:\WINDOWS\system32\cmd.exe                                    _ □ ✕

C:\Program Files\IBM\WMQFTE\bin>ftelistagents
5655-U80, 5724-R10 Copyright IBM Corp.  2008, 2011.  ALL RIGHTS RESERVED
Agent Name:        Queue Manager Name:        Status:
FTE_AGENT          QM_FTE                     READY

C:\Program Files\IBM\WMQFTE\bin>fteCreateAgent -agentName FTE_AGENT2 -agentQMgr
QM_FTE
5655-U80, 5724-R10 Copyright IBM Corp.  2008, 2011.  ALL RIGHTS RESERVED
BFGCL0071I: Direct the following MQSC definitions for agent 'FTE_AGENT2' to queu
e manager 'QM_FTE'.

DEFINE QLOCAL(SYSTEM.FTE.COMMAND.FTE_AGENT2) +
  DEFPRTY(0) +
  DEFSOPT(SHARED) +
  GET(ENABLED) +
  MAXDEPTH(5000) +
  MAXMSGL(4194304) +
  MSGDLVSQ(PRIORITY) +
  PUT(ENABLED) +
  RETINTVL(999999999) +
  SHARE +
  NOTRIGGER +
  USAGE(NORMAL) +
  REPLACE
```

Here we will create a new local Agent2 via command line

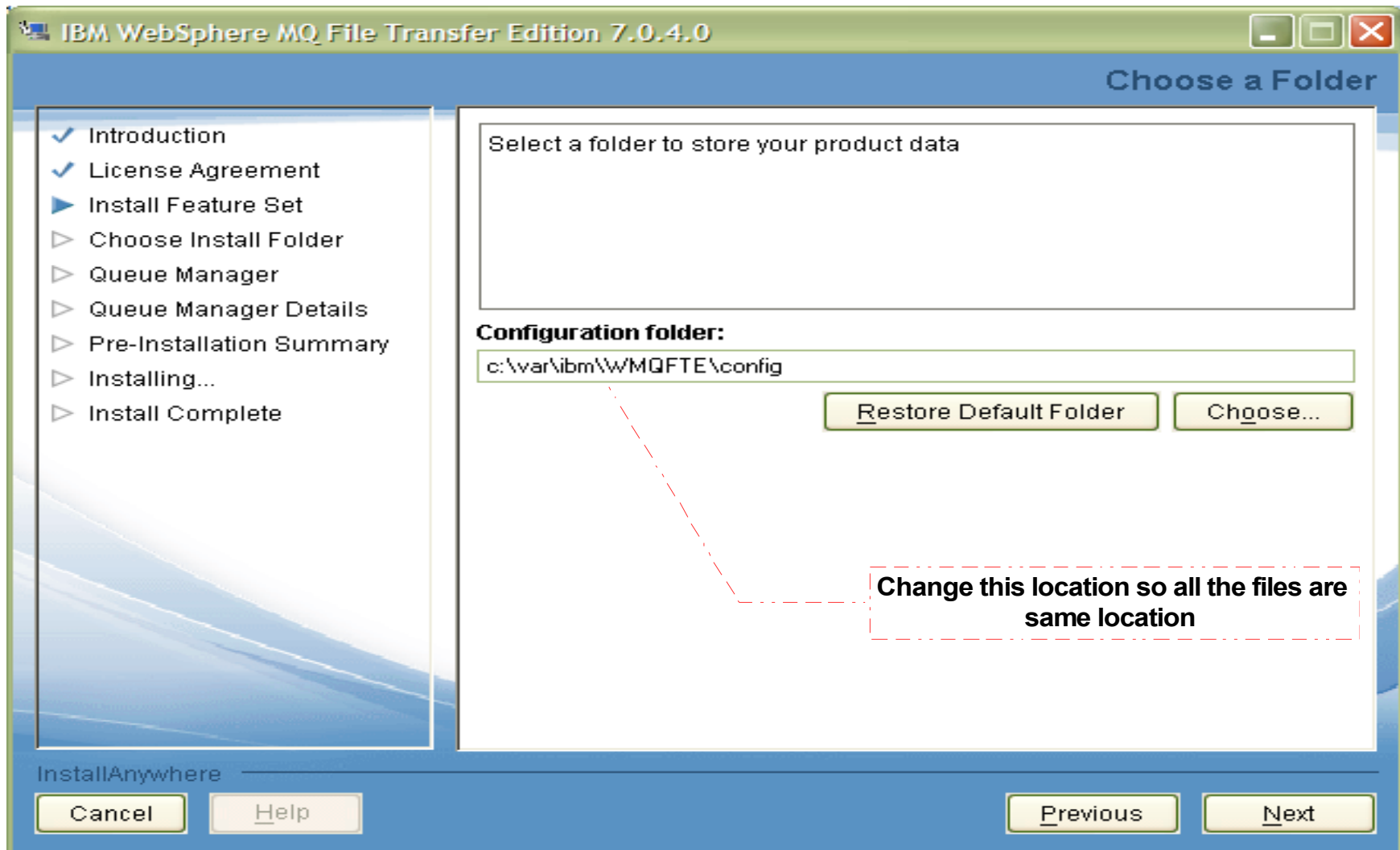# Installing Plug-in for MQ Explorer = Remote Tools and Documentation (CZXV9ML for windows)
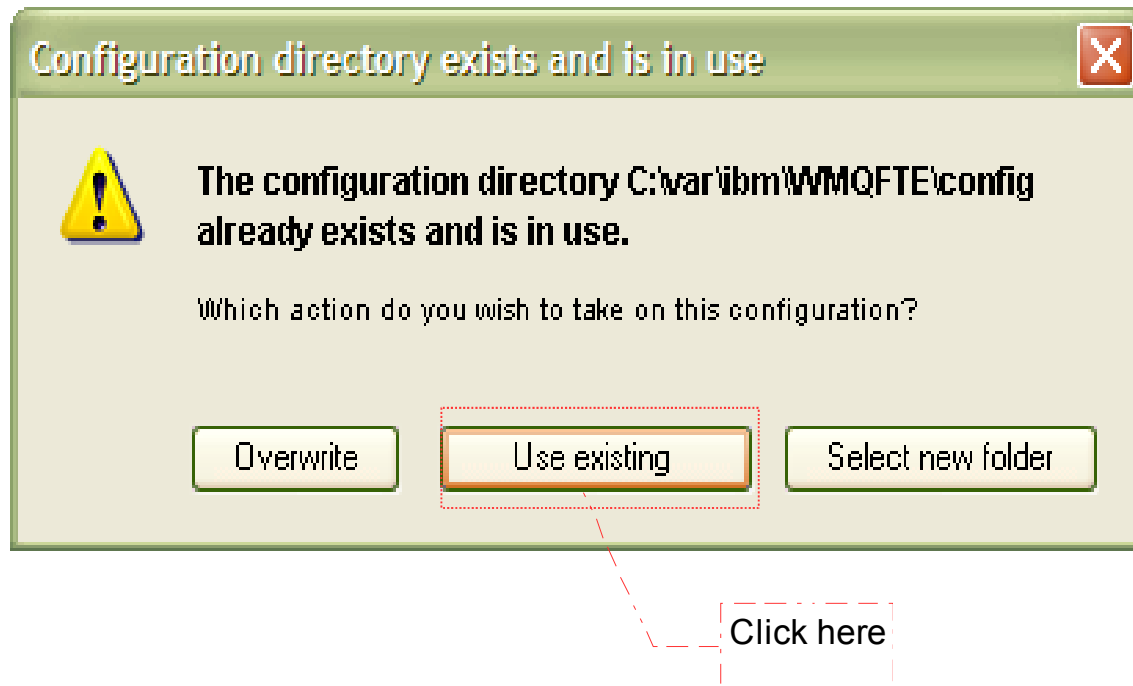
- Make sure your MQ Explorer is turned off
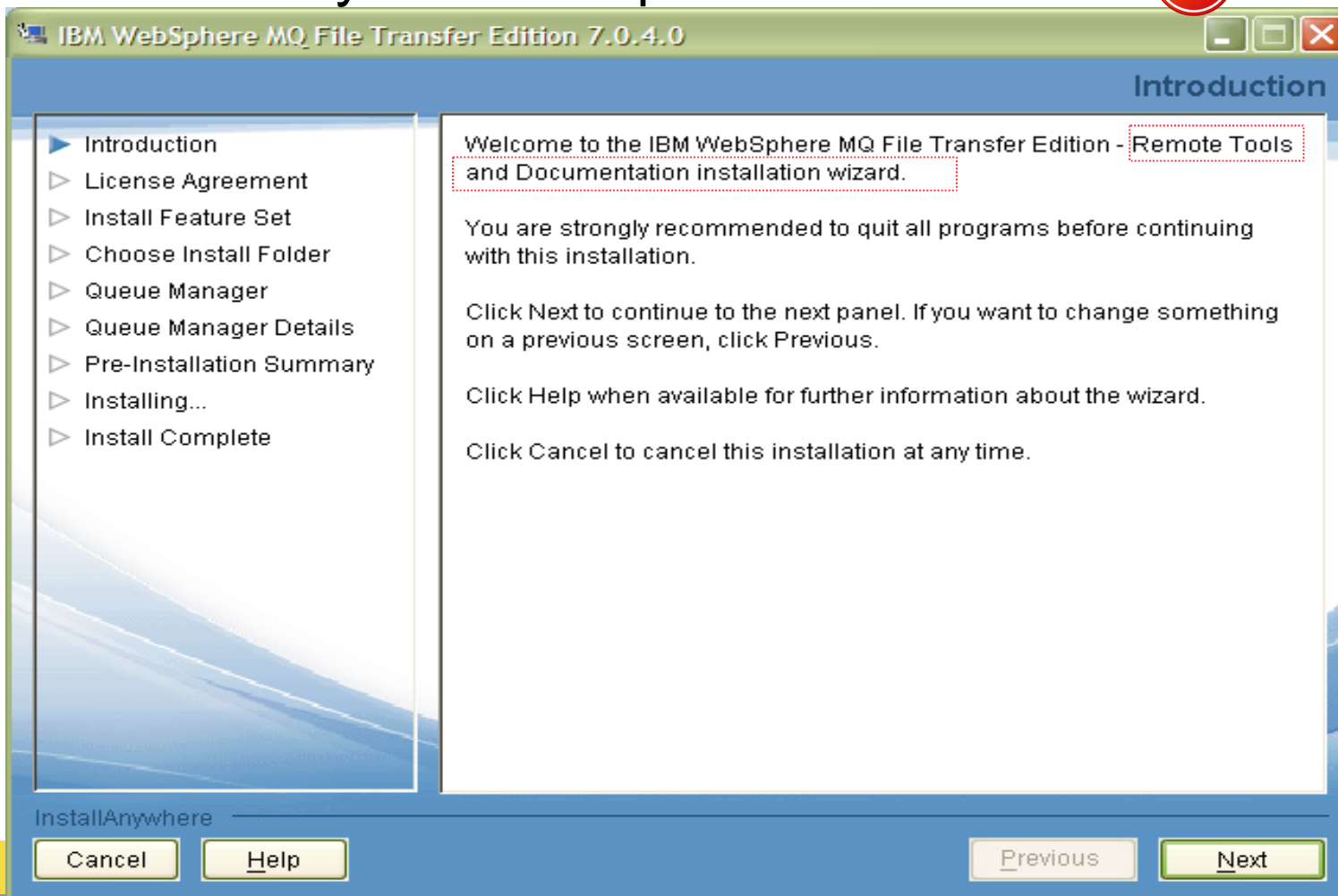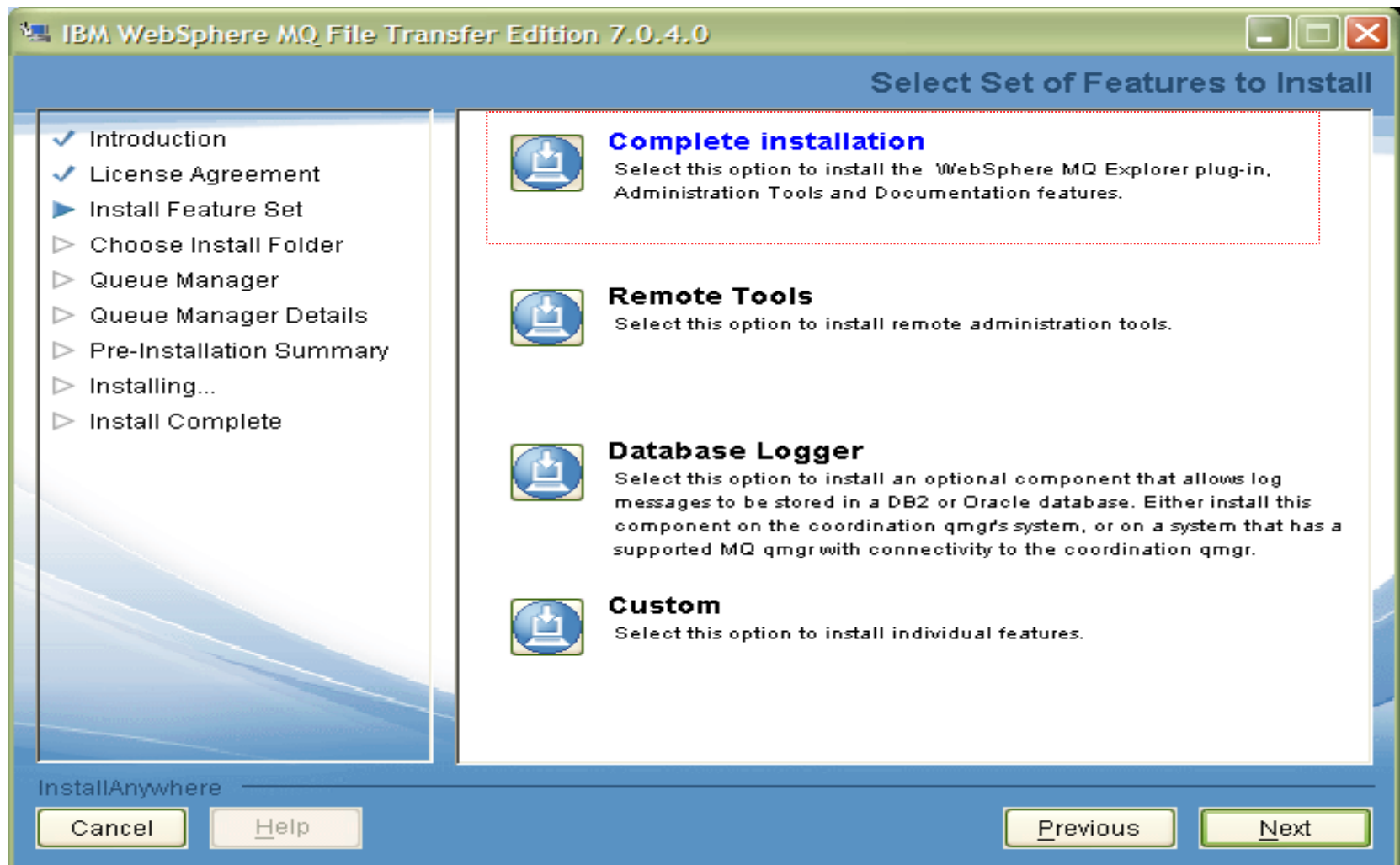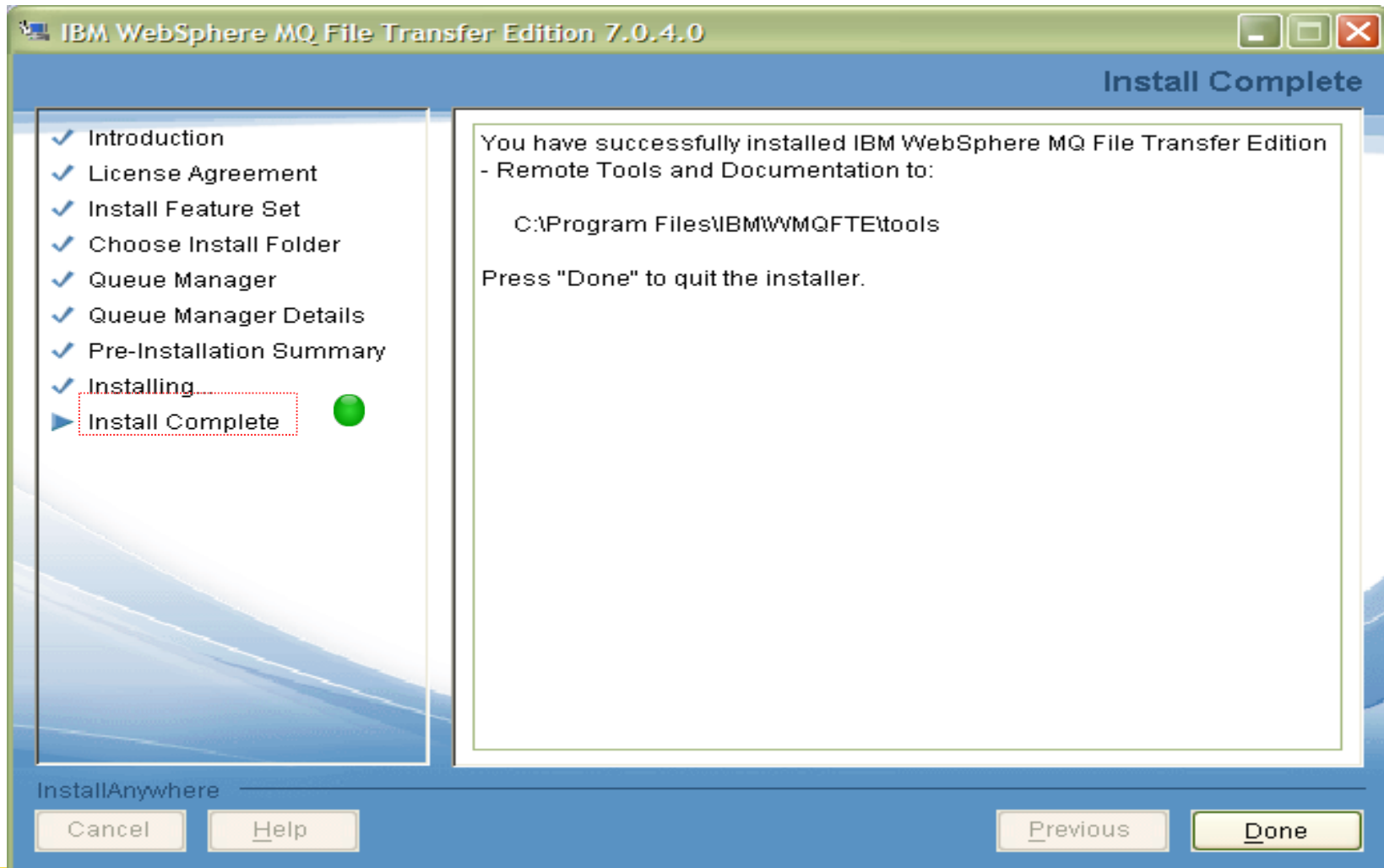
Installing Remote Tools and Documentation

Installing Remote Tools and Documentation

Change this location so all the files are same location

Installing Remote Tools and Documentation

Configuration directory exists and is in use

⚠ The configuration directory C:\var\ibm\WMQFTE\config already exists and is in use.

Which action do you wish to take on this configuration?

Overwrite   Use existing   Select new folder

Click here

Installing Remote Tools and Documentation (After skipping basic steps)

MQ Explorer after install of Remote Tools

Newly created FTE on Explorer

Configuration Directory Structure

config

• [coordQM1]

agents

[agent1]

exits

logs

Per agent configuration

[agent2]

[coordQM2]

Per coordination queue manager configuration

Configuration Directory Structure

config
[coordQM1]
agents
•[agent1
exits
logs

- **Present for any type of install**

- **Present only if an agent is installed**
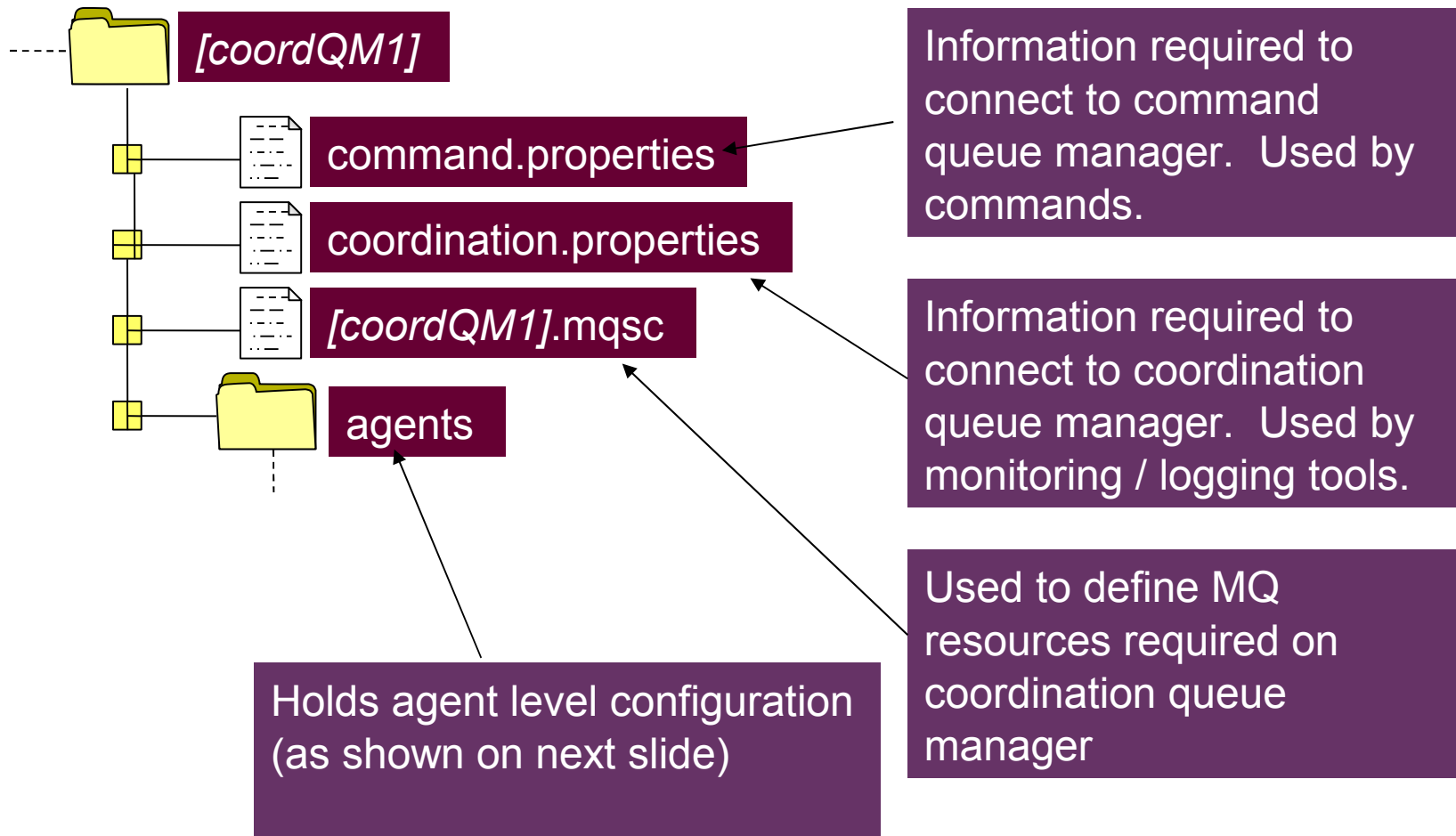
- Typically only a single agent (or a single set of commands) would be present on a system

Coordination Level Configuration

[coordQM1]

command.properties

coordination.properties

[coordQM1].mqsc

agents

Information required to connect to command queue manager. Used by commands.

Information required to connect to coordination queue manager. Used by monitoring / logging tools.

Used to define MQ resources required on coordination queue manager

Holds agent level configuration (as shown on next slide)

Agent Level Configuration

[agent1]

agent.properties

[agent1]_create.mqsc

[agent1]_delete.mqsc

exits

logs

Information required to connect to the agent queue manager. Used by the agent

Used to define resources to the agent queue manager

Used to delete resources from the agent queue manager (this can be used if an agent is uninstalled)

User exit routines are placed here

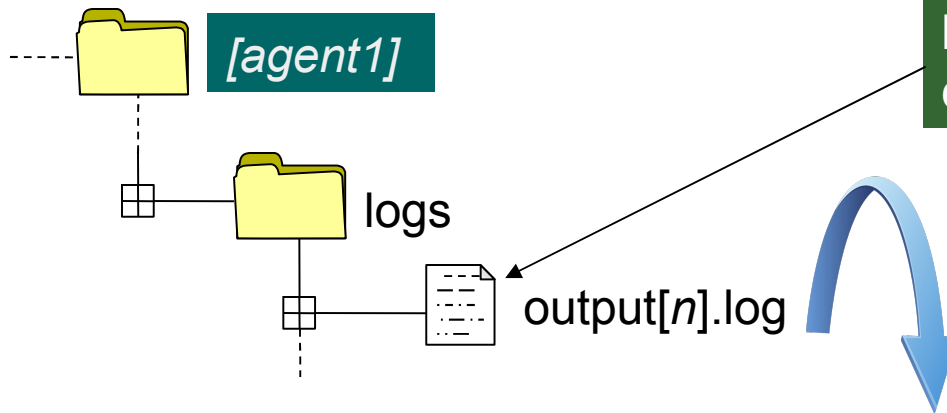Agent writes log files into this directory as well as trace, ffdc etc

Agent Level Configuration

[agent1]

logs

output[*n*].log

Each agent writes a wrapping sequence of log files that can be used for problem determination

```
************ Start Display Current Environment ************
Build level: V7.0.4 f000-704-GM7-20110511-1307
Java runtime version:
    JRE 1.6.0 IBM J9 2.4 Windows XP x86-32 jvmwi3260sr9-20101124_69295 (JIT enabled, AOT enabled)
    ........
Properties:
    agentDesc=, agentName=FTE_AGENT, agentQMgr=QM_FTE, coordinationQMgr=QM_FTE, transferRoot=
    com.ibm.wmqfte.product.root=C:\Program Files\IBM\WMQFTE
    com.ibm.wmqfte.product.config=C:\var\ibm\WMQFTE\config
WebSphere MQ Components:
    Common Services for Java Platform, Standard Edition / 7.0.1.4 / k701-104-110104
************ End Display Current Environment ************
[22/11/2011 12:55:59:546 EST] 00000001 Agent        I   BFGAG0115I: Relative path transfer root directory: C:
[22/11/2011 12:55:59:734 EST] 00000001 Agent        W   BFGAG0125W: The maximum size to which the java heap
[22/11/2011 12:55:59:734 EST] 00000001 AgentRuntime I   BFGAG0058I: The agent has successfully initialized.
[22/11/2011 12:56:00:703 EST] 00000001 AgentRuntime I   BFGAG0059I: The agent has been successfully started.
```

Transfer a file to another Box
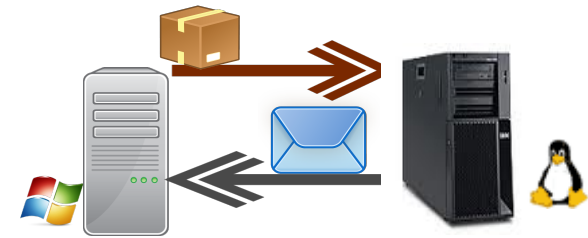
- Install MQFTE code as noted earlier on slide # 8 on this linux box and skip configuration steps we will do that in step # 3 .
- Here there will be 4 sections for this setup
- **Setup # 1** : Install/Setup of linux box showing on MQ explorer on windows side
- **Setup # 2** : Setup Communication among both boxes (Windows & Linux)
- **Setup # 3** : MQFTE setup on linux box point to windows box via command line and view agents
- **Setup # 4** : A simple transfer of files and review logs

Notes: Step # 1

n
o
t
e
s

- Assume this Linux box has MQ code installed and we will do further configuration below:

1) Create a queue manager :

Linuxbox #> *crtmqm QM_FTE_LINUX*

2) Start Queue manager:

Linuxbox #> *strmqm QM_FTE_LINUX*

3) Start Listener

Linuxbox #> *runmqsc QM_FTE_LINUX*
*define listener(TCP.LISTENER) trptype(tcp) control(qmgr) port(2020)*
start listener(TCP.LISTENER)

4) Add a SYSTEM.ADMIN.SVRCONN to communicate to MQ Explorer

Linuxbox #> *runmqsc QM_FTE_LINUX*
DEFINE CHANNEL(SYSTEM.ADMIN.SVRCONN) CHLTYPE(SVRCONN)

5) Now add from Windows MQ Explorer this new server by providing hostname & port and so on : and you can see this below:

Notes: Step # 2

n
o
t
e
s
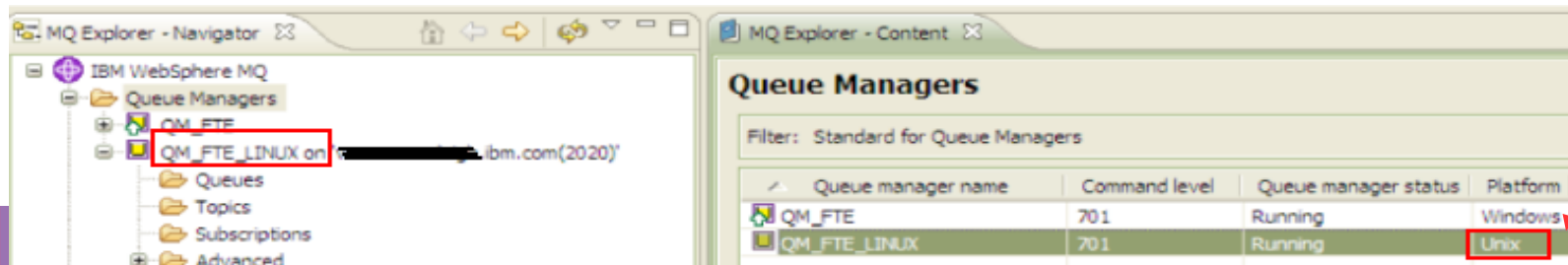
- Have a two way communication (sender/receiver channel) between both Queue Managers:

1) Please follow Techdoc: 1470997 for your configuration

http://www.ibm.com/support/docview.wss?uid=swg21470997

2) For this Linux box we will run this command in mqsc to create & start channel

```
define qlocal(QLNXTST)
define qlocal(QM_FTE) usage(xmitq)
define qremote(LWIN_LNX) rname(LWIN) rqmname(QM_FTE) xmitq (QM_FTE)
define channel(QM_FTE.LNX_FTE_TST) chltype(RCVR) trptype(TCP)
define channel(LNX_FTE_TST.QM_FTE) chltype(SDR) +
conname('windowsbox.xyz.ibm.com(1420)') +
xmitq(QM_FTE) trptype(TCP)
start channel(LNX_FTE_TST.QM_FTE)
```

3) Run similar commands on Windows side and start channels and then you can see:

MQ Explorer - Navig		
🏠 ⇦ ⇨	🔧 ▽	
⊟ ⊕ IBM WebSphere MQ		
⊟ 📁 Queue Managers		
⊟ 📊 QM_FTE		
📁 Queues		
📁 Topics		
📁 Subscriptions		
⊟ 📁 Advanced		

MQ Explorer - Content

Channels

Filter: Standard for Channels

Channel name	Channel type	Overall ch
📨 QM_FTE.LNX_FTE_TST	Sender	Running
📨 LNX_FTE_TST.QM_FTE	Receiver	Running

Step #3 MQFTE Setup

1) Create a Co-ordination Queue Manager pointing to windows box: (as diagram showed in slide # 7)

```
bin> ./fteSetupCoordination -coordinationQMgr QM_FTE
   -coordinationQMgrHost windowsbox.xyz.ibm.com  -coordinationQMgrPort 1420
   -coordinationQMgrChannel SYSTEM.DEF.SVRCONN
```

Note: This will command will create <u>coordination.properties</u> file in config dir

2) Create a Setup Command:

```
bin> ./fteSetupCommands -connectionQMgr QM_FTE -connectionQMgrHost
   windowsbox.xyz.ibm.com -connectionQMgrPort 1420 -connectionQMgrChannel
   SYSTEM.DEF.SVRCON
```

Note: This will command will create <u>command.properties</u> file in config dir

3) Create MQFTE Agent :

```
bin> ./fteCreateAgent -agentName FTE_LINUX_AGENT -agentQMgr QM_FTE_LINUX
(this will create a file FTE_LINUX_AGENT_create.mqsc )
```

4) Run that file against Linux Queue manager :

```
bin> runmqsc QM_FTE_LINUX < /var/ibm/WMQFTE/config/QM_FTE/agents/
   FTE_LINUX_AGENT/FTE_LINUX_AGENT_create.mqsc
```

Step #3 MQFTE Setup (Cont).

5) Start MQFTE agent :

```
 /opt/ibm/WMQFTE/bin> ./fteStartAgent FTE_LINUX_AGENT
5655-U80, 5724-R10 Copyright IBM Corp.  2008, 2011.  ALL RIGHTS RESERVED
BFGCL0030I: The request to start agent 'FTE_LINUX_AGENT' on this machine
has been submitted.
BFGCL0031I: Agent log files located at:
/var/ibm/WMQFTE/config/QM_FTE/agents/FTE_LINUX_AGENT
```

6) As we can view below newly create agent is ready:

```
/opt/ibm/WMQFTE/bin> ./fteListAgents
5655-U80, 5724-R10 Copyright IBM Corp.  2008, 2011.  ALL RIGHTS RESERVED
Agent Name:            Queue Manager Name:       Status:
FTE_AGENT              QM_FTE                    READY
FTE_AGENT2             QM_FTE                    READY
FTE_LINUX_AGENT        QM_FTE_LINUX              READY
TUX_AGENT             QM_FTE                    STOPPED
TUX_LNX_AGENT         TUX_FTE_TST               READY
```

MQFTE Setup if existing setup is there

Uses this setup only if you want to point to another Box or exiting MQFTE setup is already there

1) Lets point to a Co-ordination Queue Manager on Aix:

```
bin> ./fteSetupCoordination -coordinationQMgr QM_FTE_AIX
  -coordinationQMgrHost aixbox.xyz.ibm.com  -coordinationQMgrPort 1450
  -coordinationQMgrChannel SYSTEM.DEF.SVRCONN
```

2) Create a Setup Command:

```
 bin> ./fteSetupCommands -connectionQMgr QM_FTE_AIX -connectionQMgrHost
 aixbox.xyz.ibm.com -connectionQMgrPort 1450 -connectionQMgrChannel
 SYSTEM.DEF.SVRCON -p QM_FTE_AIX
```

3) Lets Create MQFTE Agent :

```
bin> ./fteCreateAgent -agentName FTE_AIX_AGENT -agentQMgr QM_FTE_LINUX
 -p QM_FTE_AIX
```
(this will create a file FTE_AIX_AGENT_create.mqsc)

4) Run that file against Linux Queue manager :

```
bin> runmqsc QM_FTE_LINUX < /var/ibm/WMQFTE/config/QM_FTE_AIX/agents/
 FTE_AIX_AGENT/FTE_AIX_AGENT_create.mqsc
```
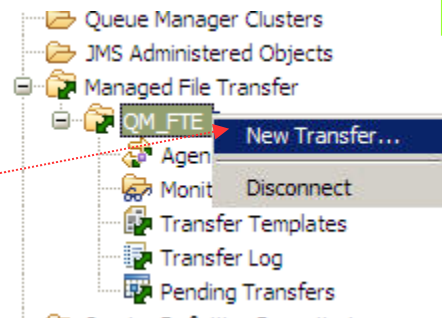
Step #4 :Transfer a file from a Windows to a Linux Box

As you can see Newly Linux agent is showing up

1

Name ▲	Description	Status	Source transfer	Destination transfer
TUX_LNX_AGENT		Ready	0	0
TUX_AGENT		Stopped	0	0
FTE_AGENT2		Ready	0	0
FTE_AGENT	FTE Agent	Ready	0	0

On this window fill out info for transfer

New Transfer

3 Enter source agent, destination agent, and all file names to create a transfer.

2

- 📁 Queue Manager Clusters
- 📁 JMS Administered Objects
- ⊟ 📁 Managed File Transfer
  - ⊟ 📁 QM_FTE
    - 📄 Agen   New Transfer...
    - 📄 Monit   Disconnect
    - 📄 Transfer Templates
    - 📄 Transfer Log
    - 📄 Pending Transfers

To create a new Transfer Click on New Transfer

| Basic | Advanced |

From:

Select Windows Agent

Agent: FTE_AGENT (FTE Agent)

Type: File

File: C:\FTE-Test-Sender\file.zip

☐ Include subdirectories

To:

Agent: TUX_LNX_AGENT

Select Linux Agent

Type: File

Directory: /tmp/fromwindows

File name: file.zip

☐ Overwrite files on the destination file system that have the same name

Step # 4 Transfer a file Review logs & Progress (Cont.)

Transfer Log

Transfer locally one agent to another

	Source	Destination	Completion State		Started (America/New_Yo
⊟	FTE_AGENT	FTE_AGENT2	Successful	Transfer to Linux Agent	/11/11 10:27:55 AM EST
	📄 C:\MQFTE-7.0.4\config\data.link	📄 C:\FTE-Test-Receiver\config	Successful		
⊟	FTE_AGENT	TUX_LNX_AGENT	Successful		11/15/11 11:46:56 AM EST
	📄 C:\FTE-Test-Sender\file.zip	📄 /tmp/fromwindows/file.zip	Successful		
⊟	FTE_AGENT	TUX_LNX_AGENT	Failed		11/15/11 12:08:24 PM EST
	📄 C:\FTE-Test-Sender\file.zip	📄 /tmp/fromwindows/file.zip	Failed - BFGIO0006E: File "/tmp/fromwindows/file.zip" already exists.		

Filter the displayed log entries:

`*`

File sent

Managed File Transfer - Current Transfer Progress   **MQ Explorer - Test Results**

Source	Destination	Current File	File Number	Progress		Rate	Started (America/New_York)
FTE_AGENT	FTE_AGENT2	data.link - (77B / 77B)	1 / 1	▬▬▬▬▬▬▬	100%	122B/s	11/14/11 10:10:21 AM EST
FTE_AGENT	TUX_LNX_AGENT	file.zip - (954B / 954B)	1 / 1	▬▬▬▬▬▬▬	100%	# Successful #	11/15/11 11:46:56 AM EST
FTE_AGENT	TUX_LNX_AGENT	file.zip - (0B / 954B)	1 / 1		0%	# Failed #	11/15/11 12:08:24 PM EST

It failed due to file exist already

MQFTE Features : Scheduling & Triggering File Transfers

New Transfer

Enter schedule and event settings.

Choose when to start the scheduled

Enter schedule and event settings.

Schedule | Triggers

☑ Enable scheduled transfer

Time base: ADMIN ▾ Local time (America/New_York)

Start: 11/28/2011 ▴▾ 🗓 10:00 PM ▴▾

:Repeat ☑

Every: 2 ▴▾ weeks ▾

○ Until: 11/28/2011 ▴▾ 🗓 10:00:00 PM ▴▾

◉ For: 3 ▴▾ repetitions

○ Forever

Schedule | Triggers

☑ Enable triggered transfer

Choose the trigger for the transfer

File Trigger

File: [   ]

Trigger Attribute

Trigger when file...

○ match pattern

○ do not match pattern

◉ match pattern and exceed 4 ▴▾ KB ▾

[Add to group] [Remove selected]

Check	Comparison	Qual...	Names
FILESIZE	GREATER_EQ...	4KB	C:\FTE-Test-Sender\smile...

Choose when to repeat the scheduled transfer and how often

MQFTE Features: Resource Monitoring

A

| Advanced |

Name: QM_FTE-Monitor

Type: Directory

Directory: C:\var\ibm\Wf

Trigger Conditions

File Matching

File Pattern: *.tar

Exclude Pattern: *.rar

☐ Interpret patterns as regular e

Trigger Attribute

Trigger when files...

○ match pattern

◉ match pattern and exceed

○ match pattern and file size remains unchange

○ do not match pattern

B

Trigger Attribute

Trigger when files...

○ match pattern

○ match pattern and exceed   0   B

◉ match pattern and file size remains unchanged for: 2   polls

○ do not match pattern

C

Create New Monitor

New Monitor

Enter metadata attribute-value pairs

Attribute name: Part Number

Attribute value: 3212

Add   Remove selected

Attribute name	Attribute value
Part Color	Red

D

```
C:\WINDOWS\system32\cmd.exe

:\Program Files\IBM\WMQFTE\bin>ftelistmonitors -v
5655-U80, 5724-R10 Copyright IBM Corp.  2008, 2011.  ALL RIGHTS RESERVED
Monitor Information:
    Name:              QM_FTE-MONITOR
    Agent:             FTE_AGENT
    Status:            Started
    Resource Type:     Directory
    Resource:          C:\var\ibm\WMQFTE
    Poll interval:     1 minutes
    Batch size:        1
    Condition:         No Size Change (for 2 polls)
    Pattern:           *.tar (wildcard)
```

As noted here A,B,C noted are GUI options for Monitoring FTE and D is command line option

Summary

After this WSTE Presentation, you should be able to:

- You have learn about overview of MQFTE and it's benefits
- Major players in MQFTE
- Understanding a full end to end setup
- Important file structure and review of logs
- Learn about moving files among two boxes
- Some of the features of MQFTE

Resources

Information Center:

- ▸ http://publib.boulder.ibm.com/infocenter/wmqfte/v7r0/index.jsp

Redbooks / Redguides / Redpapers/ Developer Works:

- ▸ Getting Started with WebSphere MQ File Transfer Edition V7
  - http://www.redbooks.ibm.com/abstracts/sg247760.html
- ▸ IBM® WebSphere MQ File Transfer Edition Solution Overview
  - http://www.redbooks.ibm.com/abstracts/redp4532.html
- ▸ Managed File Transfer for SOA using IBM WebSphere MQ File Transfer Edition
  - http://www.redbooks.ibm.com/abstracts/redp4533.html
- ▸ B2B Enabled Managed File Transfer using WebSphere DataPower B2B Appliance XB60 and WebSphere MQ File Transfer Edition
  - http://www.redbooks.ibm.com/abstracts/redp4603.html
- ▸ One-to-many file transfers using WebSphere MQ File Transfer Edition
  - http://www.ibm.com/developerworks/websphere/library/techarticles/1103_cullen/1103_cullen.html

Trial Download:

- ▸ http://www.ibm.com/software/integration/wmq/filetransfer/

Additional WebSphere Product Resources

- Learn about upcoming WebSphere Support Technical Exchange webcasts, and access previously recorded presentations at:
  http://www.ibm.com/software/websphere/support/supp_tech.html

- Discover the latest trends in WebSphere Technology and implementation, participate in technically-focused briefings, webcasts and podcasts at:
  http://www.ibm.com/developerworks/websphere/community/

- Join the Global WebSphere Community:
  http://www.websphereusergroup.org

- Access key product show-me demos and tutorials by visiting IBM Education Assistant:
  http://www.ibm.com/software/info/education/assistant

- View a webcast replay with step-by-step instructions for using the Service Request (SR) tool for submitting problems electronically:
  http://www.ibm.com/software/websphere/support/d2w.html

- Sign up to receive weekly technical My Notifications emails:
  http://www.ibm.com/software/support/einfo.html

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Questions and Answers