RabbitMQ Two-System Setup Guide (Windows with Different Ports)

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This document provides a complete guide for setting up RabbitMQ on two different Windows systems (Sys

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1. FILE LOCATIONS & NOTES
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- Config file: C:\Users\<YourUser>\AppData\Roaming\RabbitMQ\rabbitmq.conf
- Erlang cookie: C:\Users\<YourUser>\.erlang.cookie
- RabbitMQ sbin folder: C:\Program Files\RabbitMQ Server\rabbitmq_server-<version>\sbin\

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2. SYSTEM A CONFIGURATION (rabbitmq.conf)
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listeners.tcp.default = 5672
management.listener.port = 15672
management.listener.ip = 0.0.0.0
distribution.port_range.min = 25672
distribution.port_range.max = 25672
node.name = rabbit@SystemA
loopback_users.guest = false

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3. SYSTEM B CONFIGURATION (rabbitmq.conf)
------------------------------------------------------------
listeners.tcp.default = 5673
management.listener.port = 15673
management.listener.ip = 0.0.0.0
distribution.port_range.min = 25672
distribution.port_range.max = 25672
node.name = rabbit@SystemB
loopback_users.guest = false

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4. FIREWALL CONFIGURATION (Run as Administrator)
------------------------------------------------------------
netsh advfirewall firewall add rule name="RabbitMQ AMQP 5672" dir=in action=allow protocol=TCP localp
netsh advfirewall firewall add rule name="RabbitMQ AMQP 5673" dir=in action=allow protocol=TCP localp
netsh advfirewall firewall add rule name="RabbitMQ Management 15672" dir=in action=allow protocol=TCP
netsh advfirewall firewall add rule name="RabbitMQ Management 15673" dir=in action=allow protocol=TCP
netsh advfirewall firewall add rule name="EPMD 4369" dir=in action=allow protocol=TCP localport=4369
netsh advfirewall firewall add rule name="RabbitMQ Inter-node 25672" dir=in action=allow protocol=TCP

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5. ENABLE MANAGEMENT PLUGIN & RESTART RABBITMQ
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cd "C:\Program Files\RabbitMQ Server\rabbitmq_server-4.1.3\sbin"
rabbitmq-plugins.bat enable rabbitmq_management
net stop RabbitMQ
net start RabbitMQ

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6. CLUSTERING (OPTIONAL)
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Step 1: Copy the same .erlang.cookie file from System A to System B.
Step 2: Ensure hostnames resolve between systems or use hosts file.
Step 3: On System B, run:
    rabbitmqctl.bat stop_app
    rabbitmqctl.bat reset
    rabbitmqctl.bat join_cluster rabbit@SystemA
    rabbitmqctl.bat start_app

Check cluster status:
    rabbitmqctl.bat cluster_status

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7. VERIFY CONNECTIVITY
------------------------------------------------------------
netstat -ano | findstr 5672
netstat -ano | findstr 5673
Test-NetConnection -ComputerName <SystemA-IP> -Port 5672
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8. ACCESS MANAGEMENT UI
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System A → http://localhost:15672
System B → http://localhost:15673

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9. CREATE ADMIN USER
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rabbitmqctl.bat add_user admin StrongPasswordHere
rabbitmqctl.bat set_user_tags admin administrator
rabbitmqctl.bat set_permissions -p / admin ".*" ".*" ".*"

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10. SECURITY & TROUBLESHOOTING
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- Use strong passwords, avoid 'guest' for remote access.
- Restrict firewall rules to specific IPs using 'remoteip=<IP>'.
- Check logs in %APPDATA%\RabbitMQ\log.
- Ports required: 5672, 5673, 15672, 15673, 25672, 4369.
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