# Gateway and IoT protocols

**Team Emertxe** 



# Installing RabbitMQ Server



Run these commands to install

• Step 1 - Install RabbitMQ on Ubuntu

echo 'deb http://www.rabbitmq.com/debian/ testing main' | sudo tee /etc/apt/sources.list.d/rabbitmq.list

wget -O- https://www.rabbitmq.com/rabbitmq-release-signing-key.asc | sudo apt-key add sudo apt-get update

sudo apt install rabbitmq-server

• Step 2 - Manage RabbitMQ Service

sudo update-rc.d rabbitmq-server defaults sudo service rabbitmq-server start

• To stop

sudo service rabbitmq-server stop



# Installing RabbitMQ Server



• Step 3 - Create Admin User in RabbitMQ

sudo rabbitmqctl add\_user admin password
sudo rabbitmqctl set\_user\_tags admin administrator
sudo rabbitmqctl set\_permissions -p / admin ".\*" ".\*" ".

• Step 4 - Setup RabbitMQ Web Management Console

sudo rabbitmq-plugins enable rabbitmq\_management open the below link

http://localhost:15672

port no of rabbitmq is 15672



• open the below link

http://localhost:15672

- port no of rabbitmq is 15672
- Use the username and password created in step 3

RabbitMQ Management ×	TecAdmin.net		x
← → C ① Not secure   svr1.tecadmin.net:15672		☆	:
Login			





# After login, you will get the RabbitMQ management web interface dashboard.

	cadmin.net:15672/#/							7	☆ :
RabbitMQ					User: admin Cluster: rabbit@PC237 ( <u>change</u> ) RabbitMQ 3.6.9, <u>Erlang 19.3</u>				
Overview Co	onnections Channe	els Exchange	s Queues /	Admin					.
Overview									
▼ Totals									
)ueued messages (	hart: last minute) (?)								
Currently idle									
lessage rates (char	t: last minute) (?)								
Currently idle									- 1
Blobal counts (?)									. 1
Connections: 0	Channels: 0	Excha	nges: 8	Queues: 0	Consume	rs: 0			
▼ Node									- 1
lode: rabbit@PC23	(More about this node	2)							
	Socket descriptors (?)	Erlang processes	Memory	Disk space	Rates mode	Info	Reset stats DB	+/-	
File descriptors (?)	0	324	52MB	963MB	basic	Disc 1	Reset		





- -

#### C i localhost:15672/#/queues $\rightarrow$

#### To create queue

	Overview	Conr	nections	Channe	ls Exc	hanges	Queues	Admin	
	gination								
	age 1 🗸	of 1 - Filte	er:			Regex ?			
	verview			Messages			Message rates		
Add queue	lame	Features	State	Ready	Unacked	Total	incoming	deliver / get	ack
name	est-queue	D	idle	3	0	3	0.00/s	0.00/s	0.00/s
	r Add a ne	ew queue							
	Nam	ne: test-	queue		*				
	Durabili	ty: Durat	ole 🗸						
	uto delete:	? No 💊	•						
	Argumen	ts:			=			String	~
		Add	Message T	TL ?   A	uto expire	?   <b>Max</b>	length ?	Max length	bytes ?
Add queue	Dead letter exchange       ?               Dead letter routing key       ?               Maximum priority         Lazy mode       ?       Master locator       ?								









### To bind exchange

ind exonange	L Rabbii	Kaooitiviu 3.6.15 Erlang 20.2.2										
	ge 1 v of 1 - Filt	ge 1 V of 1 - Filter:										
	ame	ame Type Features Message rate in Message rate out +/										
	MQP default)	direct	D									
	nq.direct	direct	D									
	nq.fanout	fanout	D									
	ng.headers	headers	D									
	nq.match	headers	D									
	nq.rabbitmq.log	topic	DI									
Select exchange	nq.rabbitmq.trace	topic	DI									
	nq.topic	topic	D									
	st-exchange	direct	D	0.00/s	0.00/s							





### To bind exchange

C (i) localhost:15672/#/exchanges/%2F/test-exchange





#### 





#### To get message

## RabbitMO 3.6.15 Erlang 20.2.2







