

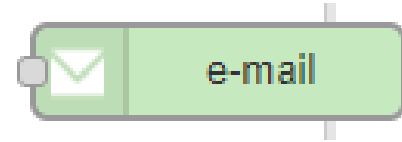
# Email Node

Lab 7

# Email Node

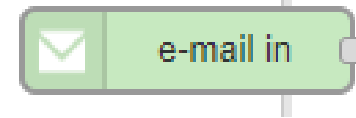
- To send and receive simple emails
  - Input node
  - Output node

# Input



- Gets emails from IMAP or POP3 and forwarded as messages
- The message has
  - Msg.topic : subject of the mail
  - Msg.payload : plain text body
  - Msg.html : text/html
  - Msg.from : from mail
  - Msg.date : date
  - Msg.header : complete header including to,CC.
- Uses imap npm module

# Output



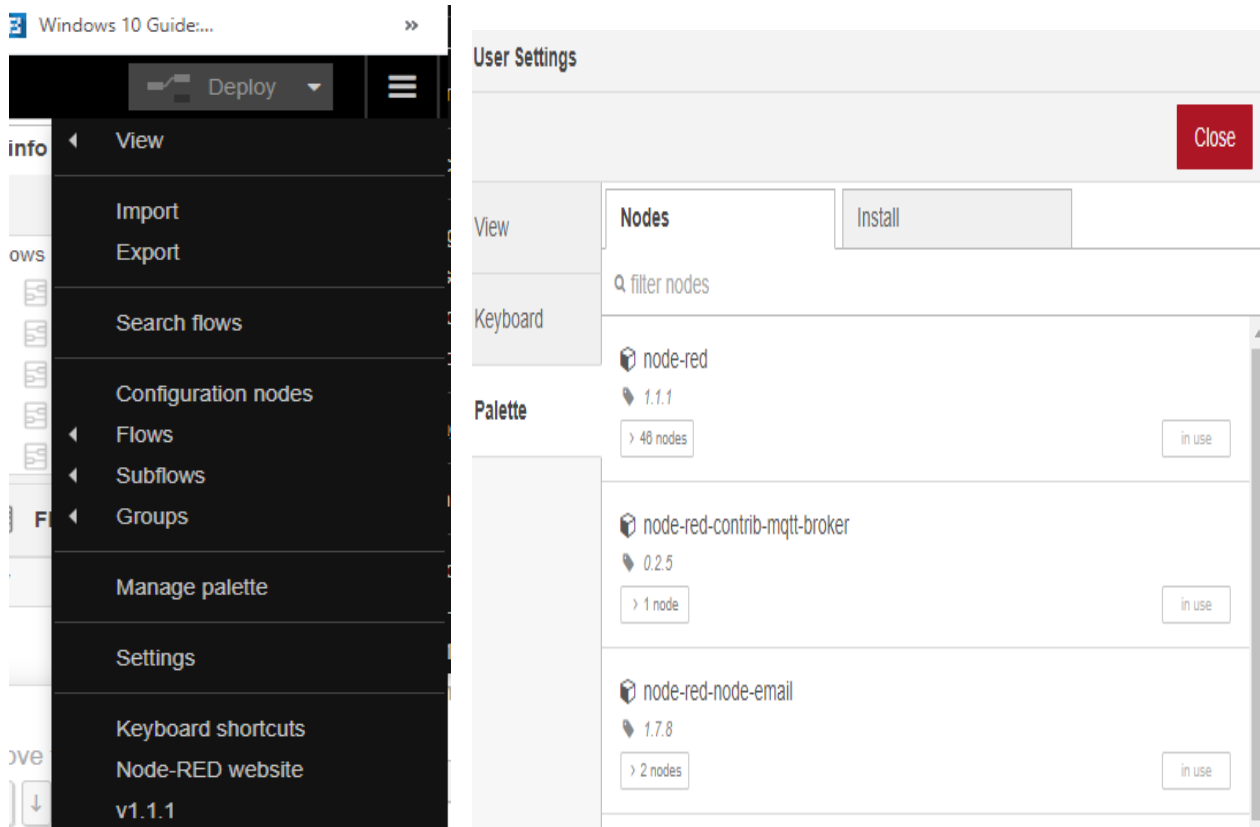
- Sends a message to the given email ID
- The message has
  - `Msg.payload` : the data as an email.
  - `Msg.topic` : subject
  - `Msg.to`
  - `msg.from`
  - `Msg.filename`
  - `Msg.description` : for the body text
  - `Msg.attachments`
- Uses nodemailer npm module.

# Install email node

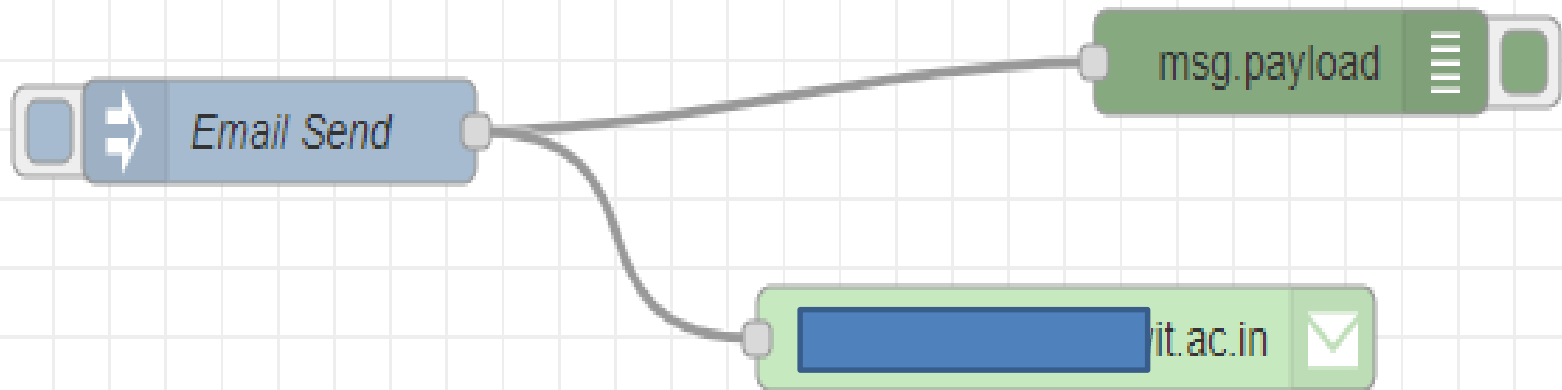
- `npm install node-red-node-email`.

- Or

```
cd ~/.node-red  
npm i node-red-node-email
```



# Sample Flow



## Edit email node

Delete

Cancel


Done

### Properties



 To

ushashola123@gmail.com


 Server

smtp.gmail.com


 Port

465


☒ Use secure connection.

 Userid


ushashola123@gmail.com

 Password

.....

 Use TLS?



 Name

Name

# Error

7/28/2020, 7:05:16 PM node:

sholausha.rani@vit.ac.in

msg : error

▶ "Error: Invalid login: 535-5.7.8  
Username and Password not accepted.  
Learn more at#535 5.7.8  
<https://support.google.com/mail/?p=BadCredentials> 15sm3217853pjs.8 -  
gsmtp"



# Authentication failed

- <https://serverfault.com/questions/635139/how-to-fix-send-mail-authorization-failed-534-5-7-14>

Google Account



## ← Less secure app access

Some apps and devices use less secure sign-in technology, which makes your account vulnerable. You can turn off access for these apps, which we recommend, or turn it on if you want to use them despite the risks. Google will automatically turn this setting OFF if it's not being used. [Learn more](#)

Allow less secure apps: OFF



Allow less secure apps: ON



# Success of email sent

```
7/28/2020, 7:08:10 PM node: d5c5253e.4bbc88
```

```
msg.payload : string[10]
```

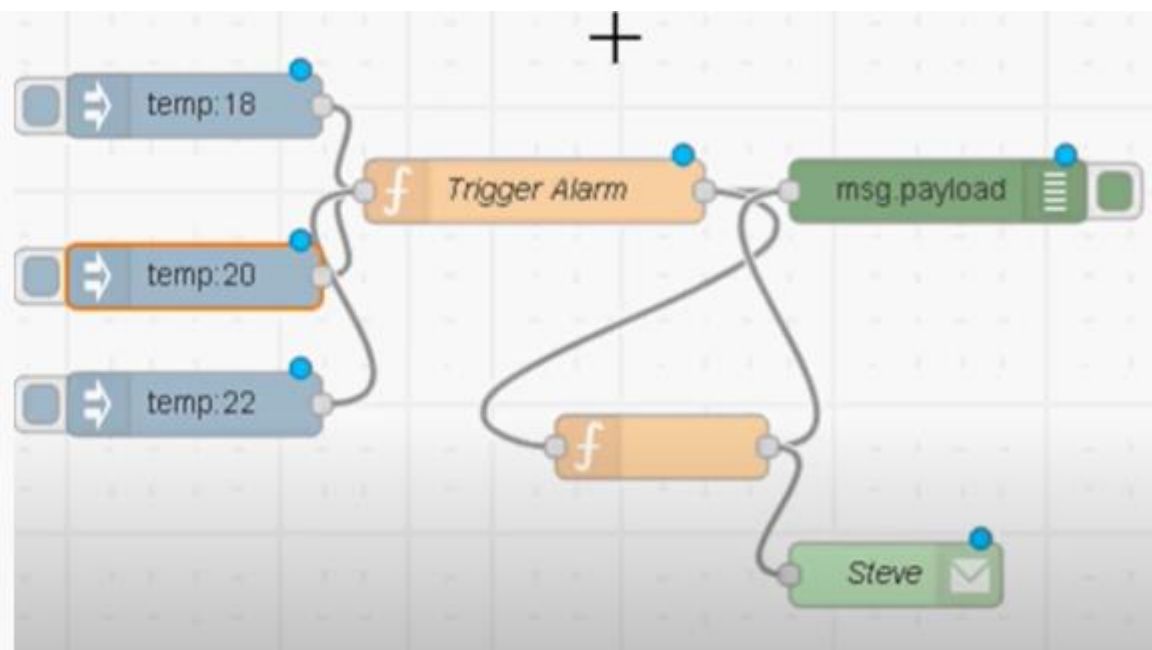
```
"Hello User"
```

# Gmail Users

- need to either enable [an application password](#), or
- enable [less secure access](#) via your Google account settings

# Example

- Create a Node-Red flow for sending an email using message attributes.
- Write a simple Node-Red simulation setting an alarm when the temperature is more than 20.
- Write a simple Node-Red simulation setting an alarm through an alarm when the temperature is more than 20.
  - <https://www.youtube.com/watch?v=rokLM4ZsMJQ>



```

1 var payload=msg.payload;
2 var alarm_flag=context.get("alarm_flag");
3 if(typeof alarm_flag=="undefined")
4   alarm_flag=false;
5
6 if (payload>20 && !alarm_flag)
7 {
8   alarm_flag=true;
9   msg.alarm=1;
10  context.set("alarm_flag",alarm_flag);
11  return msg;
12 }

```

```

if (payload<=20 && alarm_flag)
{
  alarm_flag=false;
  msg.alarm=0;
  context.set("alarm_flag",alarm_flag);
  return msg;
}

```

Delete Cancel Done

✱ Properties

To email@address.com

Server smtp.gmail.com

Port 465 ☒ Use secure connection.

UserId **Email Address**.com

Password .....

Name Steve

```
1 var temp=msg.payload;
2 msg.to="stevecope@onetel.com";
3 msg.from="noreply@gmail.com";
4
5 var d =new Date();
6 var message="";
7 if(msg.alarm)
8 {
9     msg.topic="High Temperature Alarm";
10    message=" High Temperature Alarm temp= ";
11 }
12
13 else
14 {
15     message=" Temperature now normal temp= ";
16     msg.topic="Temperature Alarm Reset";
17 }
18
19 msg.payload="time:"+d+message +msg.payload;
20 return msg;
```

# Task

- Drug consumption level notification through Email
- The drug consumption is identified three levels
  - High
  - Medium
  - Low
- The consumption is decided based on patient's three parameters
  - HR
  - SpO2
  - BP
- If all the values are high alert the indication as “High”
- If all the values are Low alert the indication as “Low”.
- Other cases it is “medium”.

- **Message notification**
- **Simulate the alert indication in Dashboard of ThingsBoard**
  - Mention the subject as “Drug consumption level reg”.
  - Message as  
HR:80,SpO2:85,BP:100,consumption level: Medium

Parameter	Normal values	Low	High
HR	Between 60 to 90 beats per minute	<60	>90
SpO2	Between 80 to 90	<80	>90
BP	Between 90mm Hg and 120mm Hg	<90	>120