screen

screen ????

```
 screen
#> screen
or
#> screen -S <session-name>

 session
#> screen -ls

 (resume)  session
#> screen -r <session-id>

 session  deattach  resume
#> screen -D <session-id>
#> screen -r <session-id>

 session
#> screen -X -S <session-id> kill

 screen  session
#> exit

 space  space 
Ctrl-a + [

Ctrl-a + ]
```

screen ???? RS232

```
screen /dev/ttyACM0 115200
```

TIP: ???? *screen is terminating*???? sudo?

?????

~/.screenrc?

```
# Start message
startup_message off

# Disable vbell
vbell off

# Set hardstatus always on
hardstatus alwayslastline " %-Lw%{= Bw}%n%f %t%{-}%+Lw %=| %M %d %0c:%s "

# Set default encoding using utf8
defutf8 on

#
term xterm

# Set the number of scrollback lines
#defscrollback 10000

# Fix termcapinfo for xterm to allow column resizing
# xterm emulation is used by PuTTY
# Uncomment the line below if running on CentOS 6.x/7.x
#termcapinfo  xterm Z0=\E[?3h:Z1=\E[?3l:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;4;6l

# Fix termcapinfo for cleaning the terminal after detach
# Uncomment the line below if running on AIX 7.x
#termcapinfo xterm*|rxvt*  te=\E[?1049l:ti=\E[?1049h:
```

> **" TIPs:**
>
> start_message ??????????
>
> vbell   ??????? tab ?????
>
> hardstatus   ????????????????????

> defscrollback ???????

?? screen ?????

????

?? screen ???? session (deattach)

Ctrl-a + d

?? screen ??? session

Ctrl-a + k

????

???????????????????????
?????????????? space ????????????? space ??????????????

Ctrl-a + [

???????

Ctrl-a +]

?????

???? <Ctrl-a> + |

???? <Ctrl-a> + S

???? <Ctrl-a> + tab

??????? <Ctrl-a> + Q

?????? <Ctrl-a> + X   ;????? session

???????

???? screen ???

<Ctrl-a> + c

??????? screen ???????? screen
NOTE????? deattach???? screen ??????????? screen ???

- ?????????????????????????????????
  - ?? #0, #1, #2????????? #3
  - ?? #0, #2, #3????????? #1
- ?????????????? deattach?????????????? screen ???

????????????

<Ctrl-a> + w

- ????? 0 ????
- ?? ? ????????????

?????????????

<Ctrl-a> + p ??? (??????)

<Ctrl-a> + n ??? (??????)

<Ctrl-a> + ????

Q & A

? Putty ????? attach ??????????????

????????????

```
termcapinfo  xterm Z0=\E[?3h:Z1=\E[?3l:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;4;6l
```

? tab ??????????????

? $HOME ????? .screenrc

```
vbell off
```

????????????? screen ????

Ctrl + a + a

- ???? deattach ??????????????
- ???? screen ??? 'No other window'?