**TASKS**

Configuration tasks on router **FACULTY**

* Hostname

Text

Description automatically generated

* Disable DNS lookup



* Interface description

Text, letter

Description automatically generated

Text, letter

Description automatically generated

* Minimum password length is 8 characters

Text

Description automatically generated

* Secure console line (console 0): password “**cisco12345**”

A picture containing text

Description automatically generated

* Secure privilege mode with a **secret** password: **class12345**



* Enable service password encryption on all lines

Text

Description automatically generated

* Banner message of the day: **No unauthorized access allowed!**

Text

Description automatically generated

* exec-timeout after **5 minutes** on all console and vty lines (0 to 15)



* Enable ipv6 routing **(IPv6 unicast-routing)**



* Configure PCs with IPv4 and IPv6 addresses, network prefix or subnet mask, and default gateway following to the ip tables

Graphical user interface, text, application, email

Description automatically generatedSTUDENT

Graphical user interface, text, application, email

Description automatically generated

PROF

Graphical user interface, text, application, email

Description automatically generated Graphical user interface, text, application, email

Description automatically generated

ROUTER

Text

Description automatically generatedText

Description automatically generatedText

Description automatically generated

* Backup router and switches running-config to the startup-config (accept the default name)

Text

Description automatically generated with medium confidence

Configuration tasks on switch **STUDENT**

* Hostname

Text

Description automatically generated with medium confidence

* VLAN1 with IPv4 address and subnet mask on the table

Text

Description automatically generated

* Interface description

Text

Description automatically generated

* IPv4 default gateway

A screenshot of a computer

Description automatically generated with medium confidence

* Backup switch running-config to the startup-config (accept the default name)

A screenshot of a computer

Description automatically generated with medium confidence

Configuration tasks on switch **PROF**

* Hostname

A screenshot of a computer

Description automatically generated with medium confidence

* VLAN1 with IPv4 address and subnet mask on the table

Text

Description automatically generated

* Interface description

Text

Description automatically generated

* IPv4 default gateway



* Backup switch running-config to the startup-config (accept the default name)

A screenshot of a computer

Description automatically generated with medium confidence

**Tests:**

**Diagram

Description automatically generated**

Test connectivity of the network (ping)

ST2 to ST1

Text

Description automatically generated with low confidence

PROF2 to PROF1

Text

Description automatically generated with medium confidence

ST1 to PROF2

Text

Description automatically generated

ST2 to PROF1

Text

Description automatically generated with medium confidence

Test telnet connectivity on the router



**configure SSH on the router**

Text

Description automatically generated

Text

Description automatically generatedText

Description automatically generated