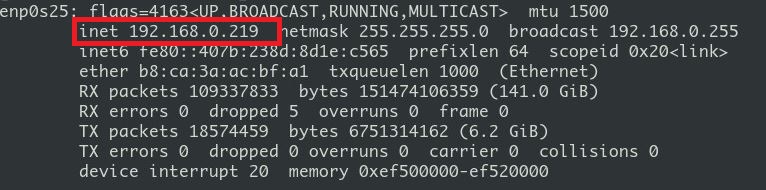
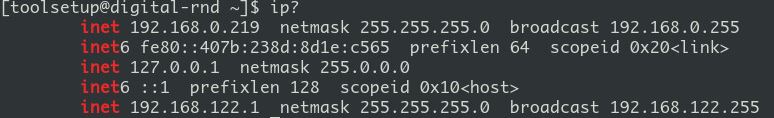
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| 분반: |  | 학번: |  | 성명: |  | 점수: |  |

☺ 모든 문항 및 세부분항의 배점은 **5점**입니다. VM을 통해서 실습을 해 가며, 포트폴리오를 참고하여 문항을 풀고 검증해 보길 바랍니다.

1. 사용자(std001)은 현재 /home/std001/test1/test2에 위치하고 있다. 자신의 홈 경로에 있는 모든 파일과 디렉토리를 페이지 단위로 출력하고 싶다. 과정 혹은 명령어를 최대한 짧은 형태로 서술하라.
2. 사용자(std001)은 현재 /home/std001/test1에 위치하고 있다. 사용자의 홈(/home/std001)에는 output.txt가 있다. 이파일에 대해서 현재 위치에 Symbolic Link를 생성하고자 한다. 과정 혹은 명령어를 최대한 짧게 서술하라.
3. 사용자(std001)은 ifconfig 명령어를 사용하여 자신의 private ip를 자주 확인한다. 그래서 “ip?”라고 입력하면 자신의 private ip만 출력이 되도록 단축키를 만들고 싶다. 다음 그림을 참고하여 “ip?”라고 입력했을때, ip가 다음과 같이 출력이 되도록 단축키를 만들어보라(단, 사용자의 현재 사용 Shell은 Bash로 가정한다.)





1. 사용자(std001)는 자신의 홈에 위치하고 있으며, 홈 디렉토리에 있는 test1디렉토리와 그 안에 파일들을 현재 경로에서 test1\_arch.tar.gz파일로 압축하여 생성하고, 압축이 끝나면 test1과 그 안의 모든 파일들을 삭제하고자 한다. 최대한 짧게 과정 혹은 명령어를 서술하라.
2. 사용자(std001)은 터미널에 로그인할 때 마다, (1)“Hello Kopo”라는 시작 메세지를 출력하고 싶다. 해당 부분을 설정파일에 설정하고 난 후에는 (2)로그아웃을 하지 않고서도 해당 메세지가 출력되는지를(즉, 설정파일이 적용되었는지를) 확인하고 싶다. echo명령어를 사용해서 해당 설정을 만드는 과정을 서술하라.(단, 사용자 셸은 Bash로 가정하며, 사용자는 현재 자신의 홈에 위치하고 있다.)
3. <https://www.hellokopo.com/program> 경로에는 “**hello\_kopo\_x86\_64.rpm**”이라는 프로그램이 위치하고 있다. 해당 위치의 프로그램을 다운로드 받아서 설치하는 과정을 서술하라. 사용자는 관리자 권한이 있다고 가정하며, 해당 파일은 추가적인 rpm파일 설치 없이도 설치와 실행이 가능하다고 가정한다.
4. designer0327이라는 설계자는 virtuoso 프로그램을 사용한 후, 프로그램을 종료하지 않고 계정 로그아웃을 하지 않은 채로 퇴근했다. 관리자 권한을 가진 admin이라는 계정의 사용자는 자신의 터미널에서 원격으로 해당 프로그램을 종료 시키고자 한다. 다음 물음에 답하라.
5. Admin은 어떻게 designer1사용자의 virtuoso 프로그램의 PID숫자를 확인할 수 있는가?(단, 시스템 전체의 프로세스는 500개가 돌고 있다고 가정한다)
6. Admin은 어떻게 designer1사용자의 virtuoso 프로그램을 원격으로 종료시킬 수 있는가?(단, virtuoso PID의 결과값은 38317이라고 가정한다)
7. 최근 급성장 중인 kopo-ansemiconductor Inc.에서는, 최근 늘어나는 Full-Custom Layout artist를 충당하기 위해서 새로운 부서를 신설하여 인력을 충원하고자 한다. 다음 물음에 답하라.(단, 다음 과정은 시스템 관리자인 admin이 수행한다고 가정한다)
8. layout2 부서를 신설하라.
9. layout2 부서가 잘 신설되었는지 확인해 보려면 1) 어느 파일을 열어서 2) 무엇을 확인해 보면 되겠는가?
10. layout2부서의 “관리자” 아이디는 sohn1004이다. 해당 계정을 부서에 맞추어서 적절하게 생성하되, 기본 셸을 bash로 지정하라.
11. sohn1004가 sudo 명령어를 사용할 수 있도록 설정 파일을 조정하라(실제 설정 파일의 일부분을 열어보고 작성할 것)
12. sohn1004의 기본셸(로그인셸)을 C-Shell로 **usermod**명령어를 사용해서 수정하라.
13. 관리자 admin은 Layout2 부서의 신입사원 100명의 계정 workant001~ workant100을 생성하고자 한다. 신입사원들이기 때문에 회사 취업규칙에 관한 문서를 “ README.txt”로 생성하여 **유저 생성시에 각 계정의 home에서 확인 할 수 있도록** 하고 싶다. 100명의 유저에게 일일이 복사해주는 것은 노비와 같은 작업이므로, 하나의 특정 디렉토리를 컨트롤하여 유저 생성시 자동으로 해당 문서가 생성되게 하려면 어떻게 하면 되는가?
14. kopo-ansemiconductor Inc. 의 Layout Artist들은 최근 협업 설계와 설계 이력관리의 중요성을 느끼고 설계에 대해서 형상관리를 하고자 한다. 해당 부분을 수행하려면 “git”이라는 프로그램을 설치해야 한다. CentOS7의 관리자인 toolsetup은 해당 프로그램 설치를 yum명령어를 이용하여 스크립트 파일(.sh)로 만들고자 한다. 다음 물음에 답하라.
15. 설치 스크립트 파일인 install\_git.sh파일은 bash Shell로 수행되는 파일이다. 해당 파일에 bash로 수행할 수 있도록 명령어(헤더)를 작성하고, git 프로그램을 yum을 이용하여 설치하는 스크립트의 내용을 작성하라(단, git프로그램의 설치 패키지 명은 git이라고 가정한다.)
16. 작성한 스크립트를 실행시켜보니, 다음과 같은 에러가 발생했다. 해당 파일의 권한(permission)을 살펴보니, 실행 권한에 문제가 있음을 깨달았다. 시스템의 모든 **사용자가 해당 파일을 실행할 수 있도록 권한을 설정**하되, “**8진법**”숫자를 사용하라.(단, X권한 이외에 다른 권한은 조정하면 안 됨)

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFNldW5nYW4gV29vAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3MAAAkpIAAgAAAAM3MAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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1. 실행권한이 수정된 “install\_git.sh”파일을 **경로 지정없이 실행**하려면, 즉 “./install\_git.sh”가 아닌 “install\_git.sh”만으로 실행하기 위해서는 어떤 과정을 수행해야 하는가? 절차대로 서술하라(단, 해당 파일의 현재 경로는 /home/toolsetup 으로 가정한다)
2. kopo-ansemiconductor Inc.의 시스템 관리자는 admin씨는 전 사원들이 **각자의 터미널에 로그인할 때마다** 열심히 일하라는 의미로 “No Work, No Money”라는 메시지를 출력되게 만들고 싶다. 전 사원은 bash셸을 사용하고 있다고 가정할 때, 어떤 파일을 어떻게 작성하면 되겠는가?
3. kopo-ansemiconductor Inc.의 시스템 관리자는 admin은 시스템의 로그를 기록하는 프로그램을 만들고자 한다. 다음 물음에 답하라.
4. admin씨는 관리 프로그램 **monitor.sh**를 만들고자 한다. 관리 프로그램에는 1) 디스크의 사용량을 disk.log에 **누적적(이어서)**으로 기록하고, 2) process.log에 **누적적(이어서)**으로 전체 프로세스의 사용현황을 기록하고자 한다. Bash를 사용하는 스크립트 파일이라 가정하고, 해당 스크립트를 작성하라.(단, 해당 스크립트 파일의 실행권한은 이미 설정되어 있다고 가정한다. 또한 disk.log 및 process.log파일은 사용자의 홈 디렉토리인 /home/admin에 있다.)
5. admin씨는 해당 프로그램(monitor.sh)을 출근하여 터미널에 로그인 할 때마다 수행되도록 하고 싶다. Bash 셸을 사용한다고 가정할 때 어떤 설정 파일을 어떻게 조작하면 가능하겠는가.