

System Programming & OS 실습

1. Environment Setting

1

최민국

Dankook University

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- AWS
- CentOS
- Putty

- AWS (Amazon Web Service)
 - 아마존에서 제공하는 클라우드 컴퓨팅 플랫폼
 - 다양한 서비스 제공 (컴퓨팅 서비스, 스토리지, 데이터베이스 및 분석 등)
 - 2006년 3월에 출시
 - Netflix, Airbnb, Twitch



AWS 프리 티어

지금 AWS에서 구축 시작

AWS 서비스는 유연성, 확장성, 안정성을 높은 정교한 애플리케이션 구축을 지원합니다. 컴퓨팅 파워, 데이터베이스 스토리지, 콘텐츠 전송을 포함하는 사용자의 모든 요구사항을 충족합니다.

무료 시작 →

Amazon Lightsail 확장형 프리 티어

신규 고객은 선택한 가상 프라이빗 서버를 최대 3개월간 무료 이용 가능

AWS와 Kubernetes를 활용하여 데이터 센터 혁신

Amazon EKS를 활용하여 데이터 센터 인프라에서 가치 창출

비용 없이 분석을 통해 구축 시작

AWS, 모든 사용자가 모든 데이터에서 답을 얻을 수 있는 가장 빠른 방법

AWS의 생성형 AI로 비즈니스 혁신

생성형 AI로 비즈니스 운영 혁신

<https://aws.amazon.com/>

[제품](#)
[솔루션](#)
[요금](#)
[설명서](#)
[학습하기](#)
[파트너 네트워크](#)
[AWS Marketplace](#)
[고객 지원](#)
[이벤트](#)
[더 알아보기](#)

[고객지원](#)
[문의하기](#)
[지원](#)

주요 서비스

[분석](#)
[애플리케이션 통합](#)
[블록체인](#)
[비즈니스 애플리케이션](#)
[클라우드 금융 관리](#)
[컴퓨팅](#)
[클 센터](#)
[컨테이너](#)
[데이터베이스](#)
[개발자 도구](#)
[최종 사용자 컴퓨팅](#)
[프론트 엔드 웹 및 모바일](#)
[게임](#)
[사물 인터넷](#)
[기계 학습](#)
[관리 및 거버넌스](#)
[미디어 서비스](#)
[마이크로 서비스 및 전송](#)
[네트워킹 및 콘텐츠 전송](#)
[양자 기술](#)
[로보틱스](#)
[위성](#)
[보안, 자격 증명 및 규정 준수](#)
[서버리스](#)
[스토리지](#)
[공급망](#)

주요 서비스

[Amazon EC2](#)
클라우드의 가상 서버

[블로그](#)
최신 AWS 블로그 읽기

[Amazon Simple Storage Service\(S3\)](#)
클라우드에서의 확장 가능한 스토리지

[블로그](#)
AWS 새로운 소식
AWS 서비스에 대한 공지 확인

[고객 지원](#)

컴퓨팅

스토리지

데이터베이스

네트워킹 및 콘텐츠 전송

분석

기계 학습

보안, 자격 증명 및 규정 준수

모든 AWS 제품 검색

필터 지우기

re:Invent

☐ re:Invent 2023 출시
 ☐ re:Invent 2022 출시
 ☐ re:Invent 2021 출시

프리 티어 유형

1-15 (324)

정렬 기준

서비스 이름

분석

AWS Clean Rooms ML

기본 데이터의 공유없이 파트너와 기계 학습 적용

기계 학습

AWS HealthOmics

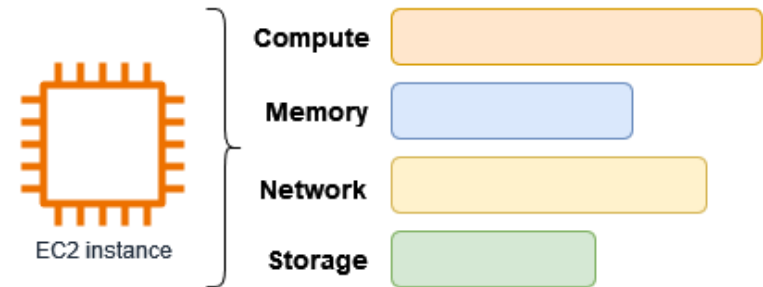
오믹스 데이터를 인사이트로 변환

컴퓨팅

AWS Outposts 1U 및 2U

협소한 장소에서 AWS Outposts 실행

- Amazon EC2란
 - Amazon Elastic Compute Cloud
 - 가상 서버(Virtual Machine) 서비스
 - 다양한 운영체제 사용 가능
 - 다양한 과금 옵션
 - CPU/메모리/네트워크 등에 따른 다양한 인스턴스 타입 제공



- CentOS
 - 오픈소스 리눅스 배포판
 - Redhat Enterprise Linux[RH]
 - Fedora Linux



Red Hat



CentOS

Open source
community projects

1



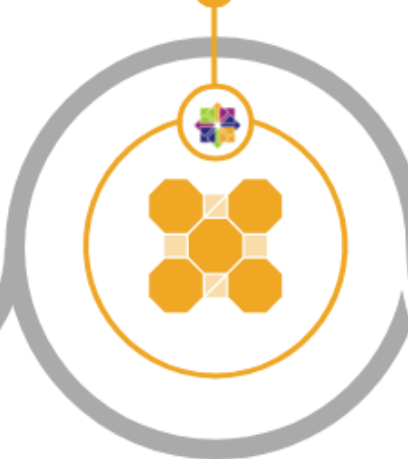
Fedora Linux

2



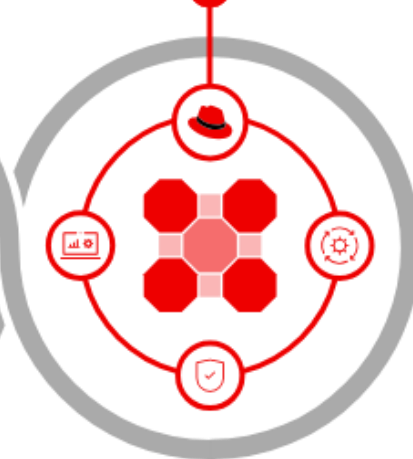
CentOS Stream

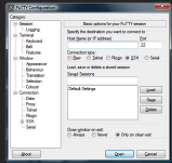
3



Red Hat Enterprise Linux

4



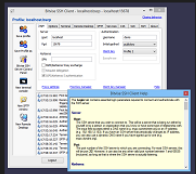


Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. PuTTY is open source software that is available with source code and is developed and supported by a group of volunteers.

[Download PuTTY](#)

Below suggestions are independent of PuTTY. They are not endorsements by the PuTTY project.



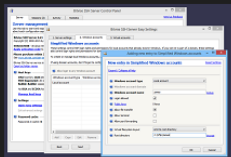
Bitvise SSH Client

Bitvise SSH Client is an SSH and SFTP client for Windows. It is developed and supported professionally by Bitvise. The SSH Client is robust, easy to install, easy to use, and supports all features supported by PuTTY, as well as the following:

- graphical SFTP file transfer;
- single-click Remote Desktop tunneling;
- auto-reconnecting capability;
- dynamic port forwarding through an integrated proxy;
- an FTP-to-SFTP protocol bridge.

Bitvise SSH Client is **free to use**.

[Download Bitvise SSH Client](#)



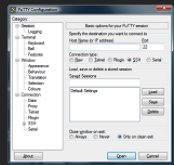
Bitvise SSH Server

Bitvise SSH Server is an SSH, SFTP and SCP server for Windows. It is robust, easy to install, easy to use, and works well with a variety of SSH clients, including Bitvise SSH Client, OpenSSH, and PuTTY. The SSH Server is developed and supported professionally by Bitvise.

[Download Bitvise SSH Server](#)

[FAQ](#)

<https://www.putty.org/>



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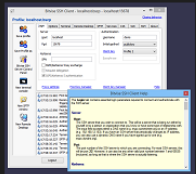
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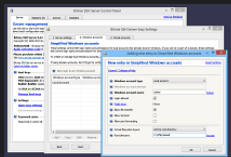
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[FAQ](#)

Alternative binary files

The installer packages above will provide versions of all of these (except PuTTYtel and pterm)
(Not sure whether you want the 32-bit or the 64-bit version? Read the [FAQ entry](#).)

putty.exe (the SSH and Telnet client itself)

64-bit x86:	putty.exe	(signature)
64-bit Arm:	putty.exe	(signature)
32-bit x86:	putty.exe	(signature)

pscp.exe (an SCP client, i.e. command-line secure file copy)

64-bit x86:	pscp.exe	(signature)
64-bit Arm:	pscp.exe	(signature)
32-bit x86:	pscp.exe	(signature)

psftp.exe (an SFTP client, i.e. general file transfer sessions much like FTP)

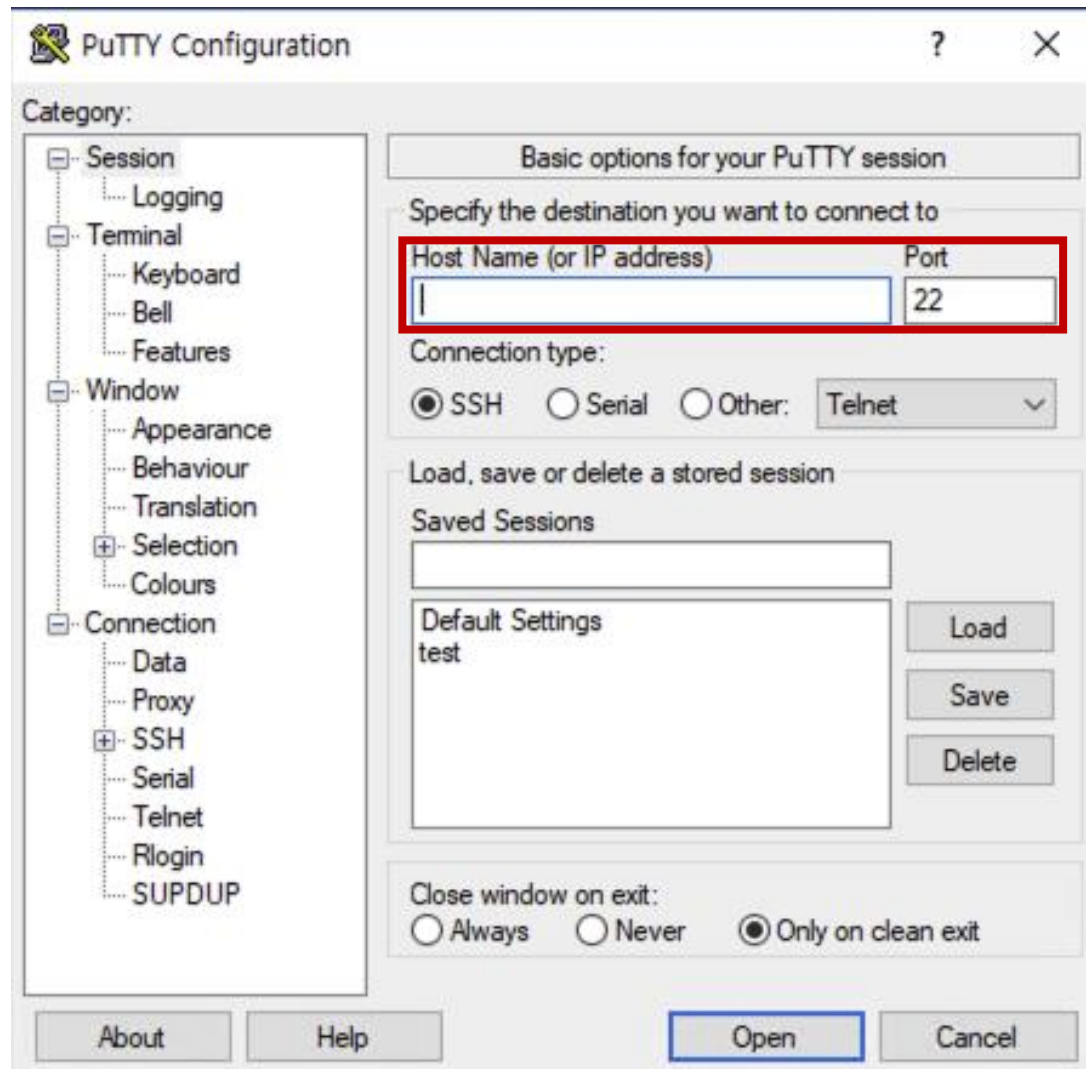
64-bit x86:	psftp.exe	(signature)
64-bit Arm:	psftp.exe	(signature)
32-bit x86:	psftp.exe	(signature)

puttytel.exe (a Telnet-only client)

64-bit x86:	puttytel.exe	(signature)
64-bit Arm:	puttytel.exe	(signature)
32-bit x86:	puttytel.exe	(signature)

plink.exe (a command-line interface to the PuTTY back ends)

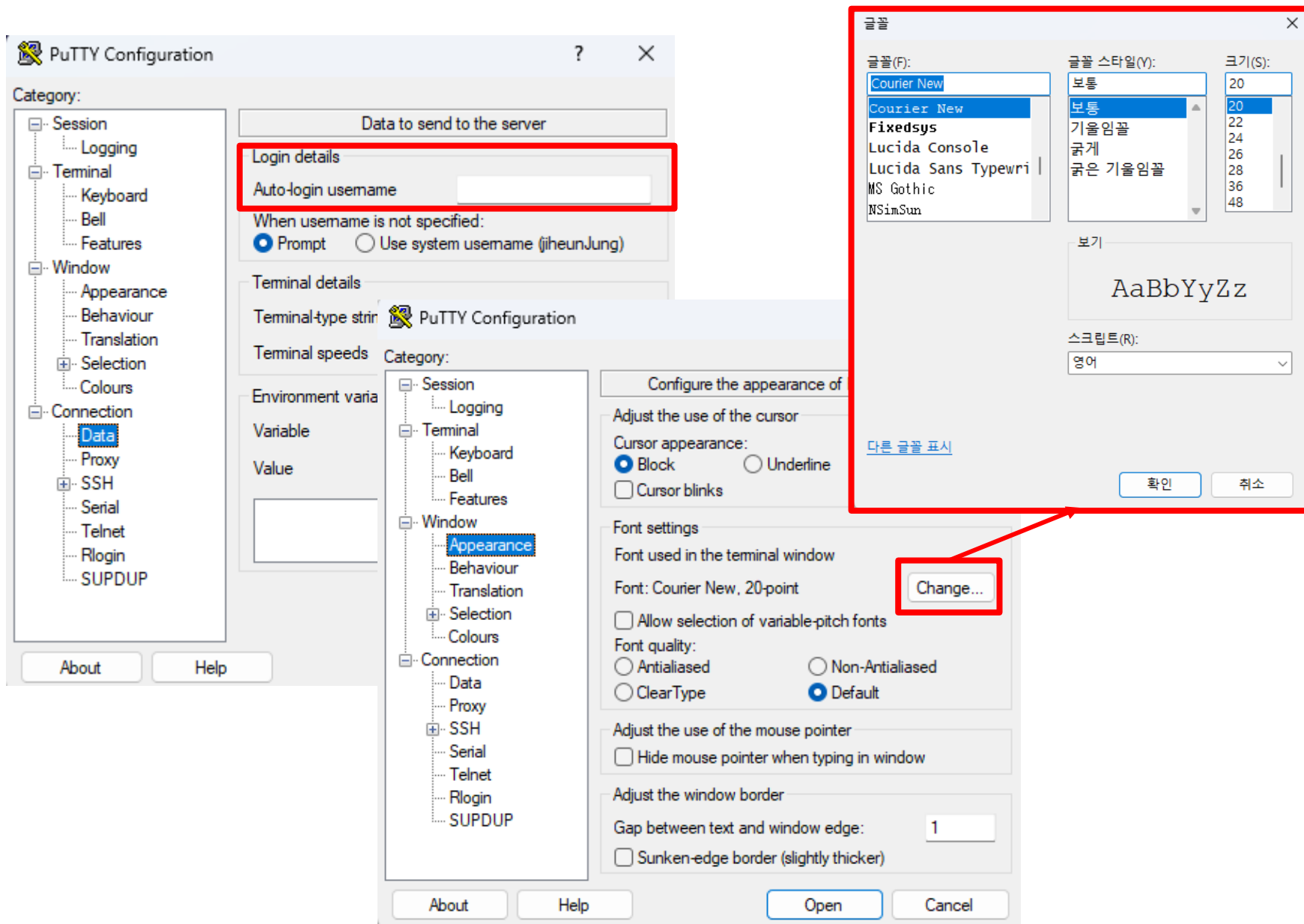
64-bit x86:	plink.exe	(signature)
64-bit Arm:	plink.exe	(signature)
32-bit x86:	plink.exe	(signature)



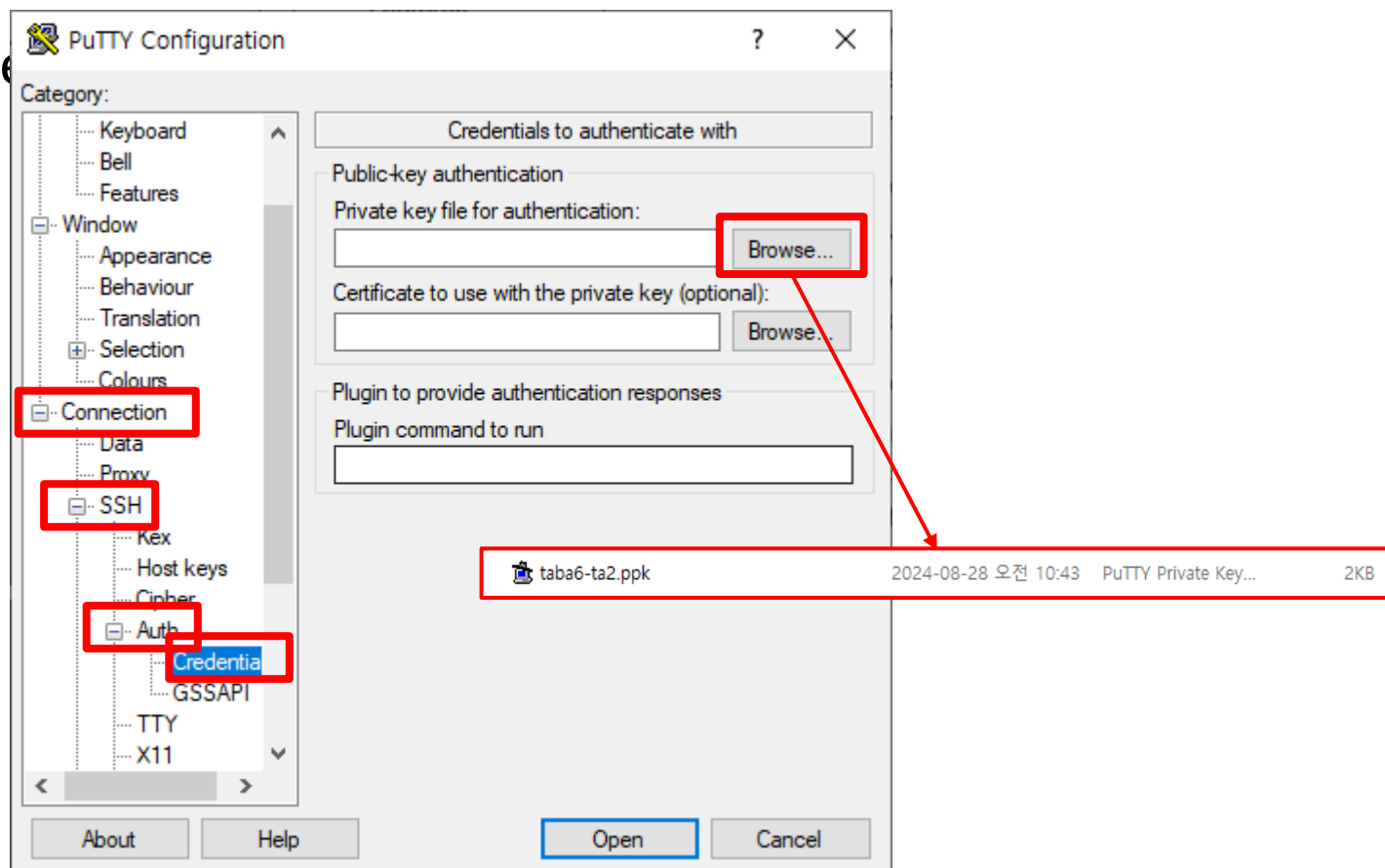
호스트 IP

호스트 port

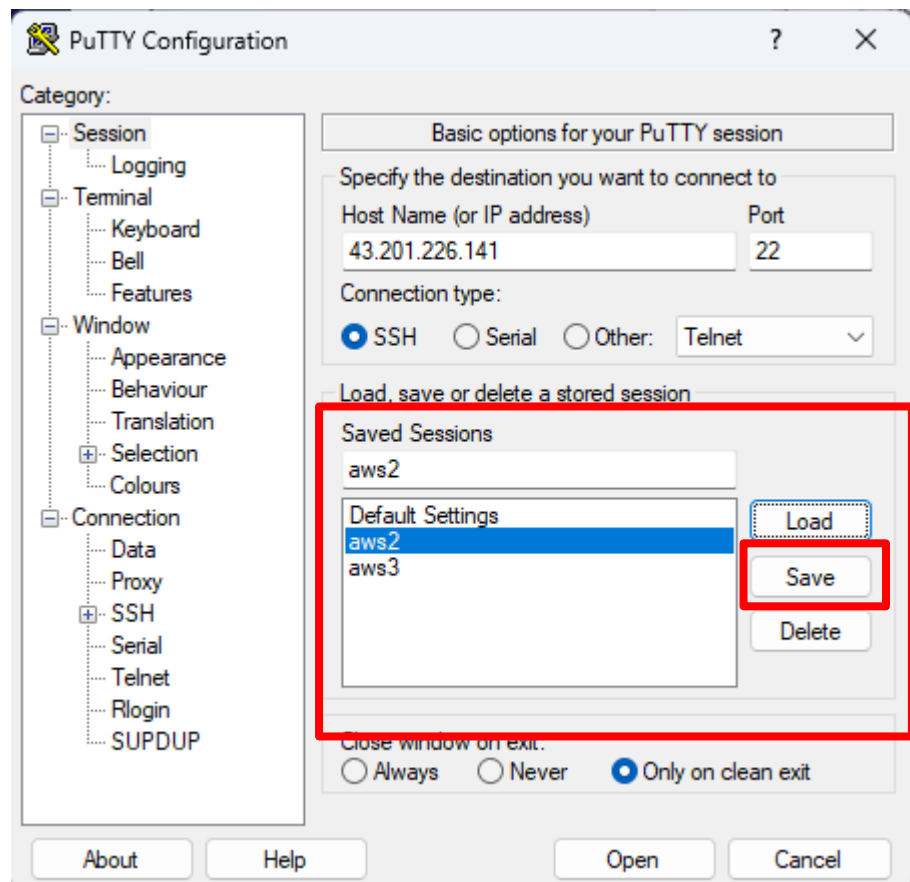
- UserID 입력
 - Connection - Data
 - UserID 입력
 - 호스트 port
- 글자 크기
 - Window – Appearance
 - Font settings change



- private Key
 - Connection – SSH – Auth – Credentials
 - Private key(.ppk)
 - 경로 입력



- 설정 저장
 - Session
 - Saved Sessions 입력
 - Save



- 설정 불러오기

- Session

- Session 선택

- Load – open

