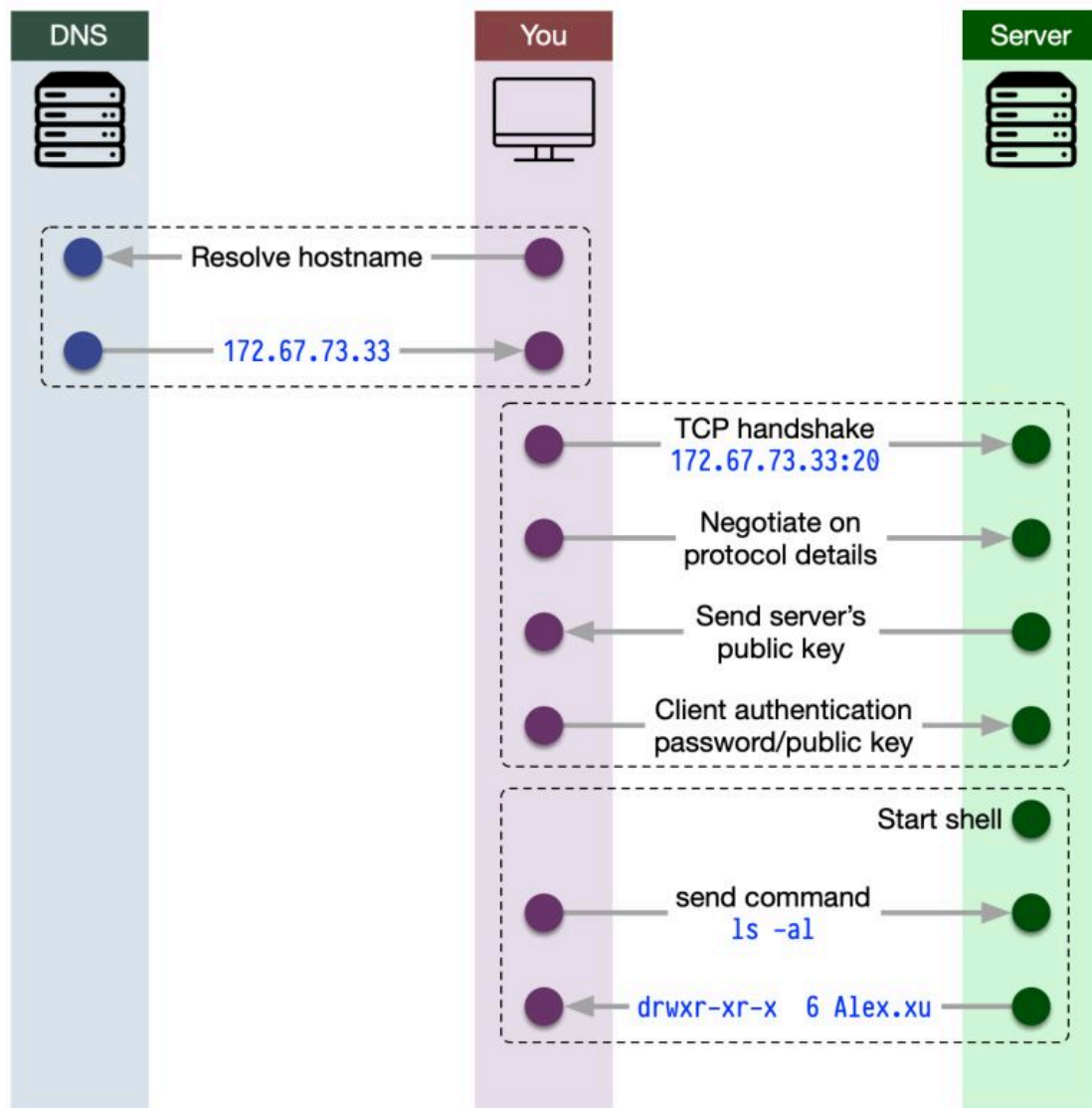


Popular interview question: what happens when you type “ssh hostname”?

In the 1990s, Secure Shell was developed to provide a secure alternative to Telnet for remote system access and management. Using SSH is a great way to set up secure communication between client and server because it uses a secure protocol.

What happens when you type “ssh hostname”

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The following happens when you type "ssh hostname":

- Hostname resolution: Convert the hostname to an IP address using DNS or the local hosts file.
- SSH client initialization: Connect to the remote SSH server.
- TCP handshake: Establish a reliable connection.

- Protocol negotiation: Agree on the SSH protocol version and encryption algorithms.
- Key exchange: Generate a shared secret key securely.
- Server authentication: Verify the server's public key.
- User authentication: Authenticate using a password, public key, or another method.
- Session establishment: Create an encrypted SSH session and access the remote system.

Make sure you always use key-based authentication with SSH for better security, and learn SSH configuration files and options to customize your experience. Keep up with best practices and security recommendations to ensure a secure and efficient remote access experience.

Over to you: can you tell the difference between SSH, SSL, and TLS?