Planning and deploying a stand-alone primary site involves **configuring a Configuration Manager site that can function independently, managing its own clients without needing to join a hierarchy**. This includes preparing the environment, selecting appropriate roles, and completing post-setup tasks. [1, 1, 2, 2, 3, 3, 4, 4, 5, 6]

Detailed Steps:

1. **Planning:**
- **Identify Network Infrastructure:** Analyze the number of physical locations, subnets, and network connectivity to ensure the site can effectively manage devices. [3, 3]
- **Site System Roles:** Consider which site system roles are needed and where they will be installed. While a primary site can reside on a single server, roles can be distributed across multiple servers. [3, 3]
- **Site Naming Conventions:** Choose a unique site code and name for the primary site, keeping in mind that these cannot be changed after installation. [3, 3]
- **Consider Post-Setup Tasks:** Plan for tasks like configuring role-based administration, defining security scopes, and managing certificates. [1, 1, 7, 7]

2. **Deployment:**

- **Installation Media:** Ensure you have the appropriate baseline version of Configuration Manager for the initial site installation, and do not update it with later versions from the CD. [6, 6]
- **Installation Method:** Use the Configuration Manager Setup Wizard or a scripted command-line installation. [6, 6]
- **Select Stand-alone Installation:** During the installation, choose the option to install the site as a stand-alone site. [2, 2]
- **Post-Setup Tasks:** Complete the tasks outlined in the planning stage, such as configuring security roles and managing certificates. [1, 1, 7, 7]

3. **Post-Deployment Configuration:**

- **Role-Based Administration:** Configure the appropriate roles and permissions for your IT personnel. [1, 1]

- **Security Scopes:** Define the scope of access for different roles within the site. [1, 1]
- **Certificate Authentication:** If using client certificates for authentication with the Cloud Management Gateway (CMG), configure the primary site accordingly. [7, 7]
- **Site System Roles:** Ensure all necessary site system roles are correctly configured and operational. [3, 3, 8]

Benefits of a Stand-alone Primary Site: [1, 9, 10]

- **Simplicity:** Suitable for smaller environments or those without the need for a complex hierarchy. [9, 9]
- **Local Management:** Allows for local device and user management. [9, 9]
- **Independent Functioning:** The site can operate without the need for a central administration site or other hierarchies. [2, 2, 11, 12]