**How to Terminal Server Configuration in Windows 2016 Step-by-Step Guide**

**Step 1: Install Remote Desktop Services**

**1. Open Server Manager**

* Log in to your Windows Server 2016.
* Open Server Manager from the taskbar.

**2. Add Roles and Features**

* Click on Manage in the top-right corner & select Add Roles and Features.
* Click Next on the Before You Begin page.

**3. Choose Installation Type**

* Select Role-based or feature-based installation & click Next.

**4. Select Destination Server**

* Choose the server you want to configure and click Next.

**5. Select Server Roles**

* In the Select server roles page, check the Remote Desktop Services box.
* Click Add Features when prompted, then click Next.

**6. Select Features**

* Click Next on the Select features page without making any changes.

**7. Role Services**

* On the Remote Desktop Services page, select the following role services:
* Remote Desktop Licensing
* Remote Desktop Session Host
* Remote Desktop Connection Broker
* Remote Desktop Web Access
* Click Next.

**8. Confirmation and Installation**

* Click Install on the confirmation page. The installation will take a some minutes.
* Click Close once the installation is complete.

**Step 2: Configure Remote Desktop Licensing**

**1. Open RD Licensing Manager**

* Open Server Manager.
* Click Tools in the top-right corner and select Remote Desktop Services, then Remote Desktop Licensing Manager.

**2. Activate the License Server**

* In the RD Licensing Manager, right-click the server name and select Activate Server.
* Follow the Activation Wizard steps to activate the server.

**3. Install Licenses**

* After activation, right-click the server name again and select Install Licenses.
* Follow the wizard to install your RDS CALs (Client Access Licenses).

**Step 3: Configure Remote Desktop Session Host**

**1. Configure Session Host Settings**

* Open Server Manager.
* Click on Remote Desktop Services on the left panel.
* Click QuickSessionCollection under Collections.

**2. Configure User Groups**

* In the Properties section, click on Tasks and select Edit Properties.
* Navigate to the User Groups tab and add the groups or users who will have access to the terminal server.

**3. Configure Session Settings**

* Set session limits and idle timeouts according to your organization’s policy.
* You can find these settings under the Session tab in the properties window.

**Step 4: Set Up Remote Desktop Web Access**

**1. Configure RD Web Access**

* In Server Manager, navigate to Remote Desktop (RDP) Services.
* Click on Collections and select QuickSessionCollection.
* Under Tasks, select Edit Properties.
* Go to the RD Web Access tab and configure the access settings as needed.

**2. Publish Applications**

* Still under QuickSessionCollection, go to the Published Apps tab.
* Click Tasks and select Publish RemoteApp Programs.
* Choose the applications you want to make available via Remote Desktop Web Access.

**Step 5: Configure the Remote Desktop Gateway**

**1. Install the RD Gateway Role**

* Open Server Manager.
* Click on Add Roles and Features.
* Select the server and install the Remote Desktop Gateway role.

**2. Configure RD Gateway**

* In Server Manager, navigate to Remote Desktop Services and click on Overview.
* Select Deploy under RD Gateway.
* Follow the wizard to configure the gateway settings.

**Step 6: Connect Clients to the Terminal Server**

**1. Configure Remote Desktop Client**

* On a Windows client machine, open Remote Desktop Connection.
* Enter the IP address or hostname of the terminal server.
* Click Show Options and configure the settings as needed.

**2. Access via Web**

* Open a web browser & navigate to the RD Web Access URL.
* Log in with your credentials and access the published applications and desktops.

**Step 7: Security and Maintenance**

**1. Enable Network Level Authentication (NLA)**

* Open Server Manager.
* Navigate to Remote Desktop Services.
* Under QuickSessionCollection, go to Tasks and select Edit Properties.
* Enable Network Level Authentication.

**2. Regular Updates**

* Keep your server and Remote Desktop Services updated with the latest security patches and updates.

**3. Monitor Usage**

* Use the Remote Desktop Services Manager to monitor user sessions and resource usage.
* Regularly review and adjust session limits and resource allocation based on usage patterns.