**Hybrid Environment Implementation Guide for ElevatedCloudWorks.com**

**Introduction:**

This guide provides a comprehensive walkthrough for implementing a hybrid environment for ElevatedCloudWorks.com, a fictitious company created for the purpose of studying Azure integration. The setup includes configuring a Domain Controller (DC), joining machines to the domain, integrating with Azure services such as Azure Active Directory (AD), and implementing Office 365.

**Step 1: Adding TXT Record to Hosted Domain**

1. **Log in to the Domain Registrar:** Access the domain registrar's website where ElevatedCloudWorks.com or for the organization you are administering, is registered.
2. **Access DNS Management:** Navigate to the DNS management section of the registrar's dashboard.
3. **Add a New TXT Record:** Look for options to add a new DNS record and select TXT record type.
4. **Input Verification Details:** Enter the verification details provided by the Azure portal or relevant service. This usually includes a specific TXT record value.
5. **Save Changes and Verify:** After adding the TXT record, save changes. Verify the presence of the TXT record using online DNS lookup tools. It may take some time for DNS changes to propagate, anywhere from 5 minutes up to 24 hours.
6. **Confirm Domain Ownership:** Once verified, confirm domain ownership within the Azure portal or relevant service.

**Step 2: Promoting a Local Server to a Domain Controller (DC)**

1. **Launch Windows Server Manager:** Open Windows Server Manager on the local server.
2. **Access "Add Roles and Features":** Navigate to "Manage" and select "Add Roles and Features."
3. **Choose Installation Type:** Select "Role-based or feature-based installation" and choose the local server.
4. **Add Active Directory Domain Services Role:** From the list of roles, select "Active Directory Domain Services." Follow the wizard to install additional features if prompted.
5. **Promote Server to Domain Controller:** After installation completes, a notification will appear. Click "Promote this server to a domain controller." Choose deployment operation, deployment options, and complete necessary configurations.

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**VM Windows 11 being joined to the domain.**

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**Step 3: Azure Integration**

1. **Log in to Azure Portal:** Access the Azure portal using appropriate credentials.
2. **Navigate to Azure Active Directory:** In the Azure portal, navigate to Azure Active Directory to view domain-joined devices and users.

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**Step 4: Office 365 Implementation**

1. **Set up Office 365 Services:** Use the Office 365 Admin Center to set up Office 365 services for users within the ElevatedCloudWorks.com domain.

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**Step 5: On-Premises Updates with Azure AD Connect**

1. **Install Azure AD Connect:** Download and install Azure AD Connect on the on-premises DC01 server.
2. **Configure Synchronization:** Follow the configuration wizard to synchronize on-premises Active Directory with Azure AD.
3. **Update Domain Schema (If Required):** If Azure AD Connect prompts for a domain schema update, perform the update on the on-premises server. Ensure additional security measures like Microsoft Authenticator are employed if necessary.

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