Deploy OS to Hard Drive

Deploying an OS to the local hard disk drive of a bare metal server. A single server component is available in the Template Builder.

1. Log in to the Active System Manager interface.
2. Click **Templates-> Sample Templates**.
3. Click **Deploy OS to Hard Drive**-> **Clone**.
   The **Clone Template- Deploy OS to Hard Drive** window is displayed.
4. In the **Clone Template- Deploy OS to Hard Drive** window, edit the following:
   a. Type a name in the **Template Name** field.
   b. From the **Template Category** drop-down menu, select a template category. Select the **Create New Category** option if you want to create a new template category.
   c. In the **Template Description** field, type description for the template.
   d. To update the firmware and software while deploying a service using this template, select the **Manage Server Firmware/Software** check box and select a firmware and software repository from the **Use Firmware Repository** drop-down menu.
      NOTE: Changing the firmware repository may update the firmware level on servers for this service. Firmware on shared devices is maintained by the global default firmware repository.
   e. To grant access to standard users to use this templates, select the **Manage Service Permissions** check box, and click any one of the following options:
      i. **All Standard Users —** select this option to provide access to all standard users.
      ii. **Specific Standard Users —** select this option to provide access to specific users. Click **+ Add User(s)** to add the users. To remove users added to list, select the user and click **Remove User(s)**.
   f. Click **Next.**
      The **Additional Settings** window is displayed.
   g. Under **Server Pool Settings**, select a new server pool from the **Select New Server Pool** drop-down menu.
   h. Under **Network Settings**, select a new network from the **Select New Network** drop-down menu.
   i. Click **Finish**.
5. On the **Template Builder** page, click the server component and click **Edit.**
   The **Server Component** window is displayed**.**
6. Configure the following settings in the **Server Component** window:
   a. Under the **Basic Settings** section, edit the name in the **Component Name** field as required.
   b. Under the **Associated Resources** section, select **Associate All Resources** or **Associate Selected Resources** to associate all or specific components to the new component.
   c. Click **Continue**.
   d. Select any one of the following:
      i. **Import Configuration from Reference Server** — select to import the configuration from an existing server.

ii. **Import from Existing Template** — select to import the configuration from a server component in an existing template.
iii. **Upload Server Configuration Profile** — select this option to configure the component based on a configuration profile available on the system.

e. Under **OS Settings**, configure the following:
   i. If you select the **Auto-generate Host Name** check box, a **Host Name Template** field is displayed.
      In the **Host Name Template** field, type unique host name for deployment.
   ii. From the **OS Image** drop-down menu, select the OS image.
   iii. Edit the **Administrator Password**.

f. Under the **Hardware Settings** section, select the following:
   i. **Target Boot Device** — select the boot device such as local hard drive or SD card from the drop-down menu.
   ii. **Server Pool** — select the pool from which the servers are selected during deployment.
   i. Configure RAID. The following two options are available to configure RAID level:
      - **Basic**
      - **Advanced**

      For more information on **RAID Configuration**, see the **Server Settings** section in the *User's Guide*.

g. Under the **BIOS Settings** section, select the following:
   i. **System Profile** — Select the system power and performance profile for the server.
   ii. **User Accessible USB Ports** — select the server ports that are accessible by the user.
   iii. **Number of Cores per Processor** — Select the number of enabled cores per processor.
   iv. **Virtualization Technology** — Select **Enabled** to enable the additional hardware capabilities provided by virtualization technology.
   v. **Logical Processor** — each processor core supports up to two logical processors. If set to **Enabled**, the BIOS reports all logical processors. If set to **Disabled**, the BIOS reports only one logical processor per core.
   vi. **Execute Disable** — allows you to enable or disable the Execute Disable bit.
   vii. **Node Interleaving** — if the system is configured with matching memory, set the option to **Enabled**. If set to **Disabled**, the system supports non-uniform memory architecture memory configurations.

h. Under the **Network Settings** section, select the following:
   i. **Add New Interface** — Click to create an interface based on the specified the **Fabric Type**, **Port Layout**, **Partitioning**, and **Redundancy**.
   ii. Select the network gateway from the **Static Network Default Gateway** drop-down menu.
   iii. **Identity Pool** — Select the pool from which the virtual identities are selected during deployment.

i. Click **Save**.
   NOTE: You can click **Validate Setting** to verify if there are any servers present in the repository with the specified requirements in the template during deployment.

7. Click **Publish Template**.
   Template is now ready for deployment.