Managing Multiple Machine Deployment

Pre-Install

1) Pre-Install Requirements Documents (PIRD) completed?
    a. *Plan generated for planned install. Your SAS Software Order will list if the install is planned. Ask your SAS project manager for one if not available*
2) Environment check completed?
    a. Log in to target SAS server(s) and check for all items listed in the PIRD.
3) Remote access or Access to target server(s) verified?

Install

1) Order
    a. Metadata
    b. Compute(s)/Application Server
    c. Mid-tier(s)
2) Note
    a. **Order** is important
    b. Install in two rounds Binaries first then Configuration.
    c. You may setup and run a hot fix report, download and apply proper hot fixes before starting configuration round.
3) Installs
        i. **Install** binaries first on all tiers based on Plan and proper licenses (**un-check** "Configure" option). Install in order
            1. **Metadata Tier**
                a. ./setup.sh -record -deploy &[1]
                b. Binary install completes make a copy of the response file[2]
            2. **Compute/Application server Tier**
                a. ./setup.sh -record -deploy &[3]

[1] No & in WIN
[2] There would be a sdwresponse.properties file in the install IDs home.
[3] N/A in WIN

b. Binary install completes make a copy of the response file[4]

3. **Middle-tier Tier**
   a. **./setup.sh -record -deploy &[5]**
   b. Binary install completes make a copy of the response file[6]

Configure

ii. **Metadata Tier**

1. **Start** Configure
   a. ./setup.sh -record -deploy -inputresponsefile /home/<id>/sdwresponse.properties
2. **Backup**: Once configuration completes log on to SMC (use on server itself), run custom backup. Stay consistent with naming the backup. Example: **CustomPost_Meta_<date>**
3. **Stop** SAS services (WIN local services, Unix Lev/sas.servers stop)
4. Create a zip or tar Of the config dir. [7]
5. **Start** SAS services
6. **Note:**
   a. You will be prompted for server where SAS Environment Manager will run, consult your plan.xml file, usually it is the Mid-tier, provide FQDN of the mid-tier
   b. Only will be prompted for SASMeta
   c. Usually accept defaults

iii. **Compute or Application Server**

1. **Start** Configure
   a. ./setup.sh -record -deploy -inputresponsefile /home/<id>/sdwresponse.properties
2. **Backup**: Once configuration completes log on to SMC (use on server itself), run custom backup. Stay consistent with naming the backup. Example: **CustomPost_Compute_<date>**
3. **Stop** SAS services (WIN local services, Unix Lev/sas.servers stop) on Compute then Meta

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[4] There would be a sdwresponse.properties file in the install IDs home.
[5] N/A in WIN
[6] There would be a sdwresponse.properties file in the install IDs home.
[7] Keep naming convention consistent: Post_<tier>_Conifguration_<date>. Tar cmd **tar -zcvf archive-name.tar.gz directory-name**

4. Create a zip or tar Of the config directory on Meta node[8]
5. **Start** SAS services: **Metadata** then **Compute/Application** server
6. **Note:**
    a. You will be prompted for server where SAS Environment Manager will run, consult your plan.xml file, usually it is the Mid-tier, provide FQDN of the mid-tier
    b. Prompted for SASApp assuming single solution install i.e. EM, OA etc. not OA+EM or OA+VA etc. Where you have multiple solutions, it is better to create SAS Server context for each solution.[9]
    c. Prompted for metadata node, provide FQDN of metadata node
    d. Prompted for sasadm@saspw and sastrust@saspw IDs provide that (set when doing Metadata node)

iv. Middle Tier

1. **Start** Configure
    a. ./setup.sh -record -deploy -inputresponsefile /home/<id>/sdwresponse.properties
2. **Backup**: Once configuration completes log on to SMC (use on server itself), run custom backup. Stay consistent with naming the backup. Example: **CustomPost_midtier_<date>**
3. **Stop** SAS services (WIN local services, Unix Lev/sas.servers stop) on Mid-tier then Compute then Meta
4. Create a zip or tar Of the config directory on Meta node[10]
5. **Start** SAS services: **Metadata** then **Compute/Application** server then **Mid-tier**
6. **Note:**
    a. You will be prompted for server where SAS Environment Manager will run, consult your plan.xml file, usually it is the Mid-tier, provide FQDN of the mid-tier
    b. Prompted for metadata node, provide FQDN of metadata node
    c. Prompted for sasadm@saspw and sastrust@saspw IDs provide that (set when doing Metadata node)

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[8] Keep naming convention consistent: Post_<tier>Conifguration_<date>. Tar cmd **tar -zcvf archive-name.tar.gz directory-name**

[9] In case where multiple solutions are being created you would need to keep SASApp and its relevant Object Spawner separate. For example if there is a OA + VA install, you will be presented SASApp default name for let's say OA you may change that to SASApp_OA, then when doing VA you may be prompted for SASApp 2 you may change that to SASApp_VA. This will happen if you are installing OA & VA with a shared metadata but on their own nodes. If OA+VA is on one machine you will be only given SASApp which you may accept. Consult SAS Install & Configure document if un-clear at http://bit.ly/SASInstallConfig

[10] Keep naming convention consistent: Post_<tier>Conifguration_<date>. Tar cmd **tar -zcvf archive-name.tar.gz directory-name**

Validation

b. Follow the generated Instructions.html per tier/per node usually this file is available in SAS configuration: **...config/Lev1/Documents**

4) Any solution specific post install tuning steps; if relevant this may be obtained from the solution specific administration guide
5) Perform any customization (re-directing -WORK (if VA then -MEMSIZE 0))