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| **Stage** | **Scenario** | **Possible Solution** |
| **Pre-Deployment** | VM has no custom code - Install standard OSS packages – No artifacts | Attach script to user-data. |
| VM has source code – Build and generate binaries through Jenkins | Sidecar pulls the artifacts via FTP and deploys it in the VM. |
| VM is created from an existing AMI – no custom configuration required | Just provision - No action required. |
| VM has source code – CS18 would build the code and generate the binary | Attach script to user-data. Sidecar compiles deploys it in the VM. |
| **Deployment** | Entire deployment is defined in CloudShell – Greenfield deployment with no existing resources or CloudFormation template | Generate the final CloudFormation from service.yaml and blueprint.yaml. |
| CloudShell is used with an existing deployment – Needs to reuse resources | Enable referring the resources through identifiers in the YAML files |
| CloudShell is used with an existing CloudFormation template – Few resources exist as defined in the CF | Limit the resources to supported types. Merge the definitions with existing CF template to generate a new one. |
| **Post-Deployment** | All resources created via CloudShell belonging to the same lifecycle will be torn down. Existing resources will continue to exist. | Tag each CS18-specific resource while provisioning. |