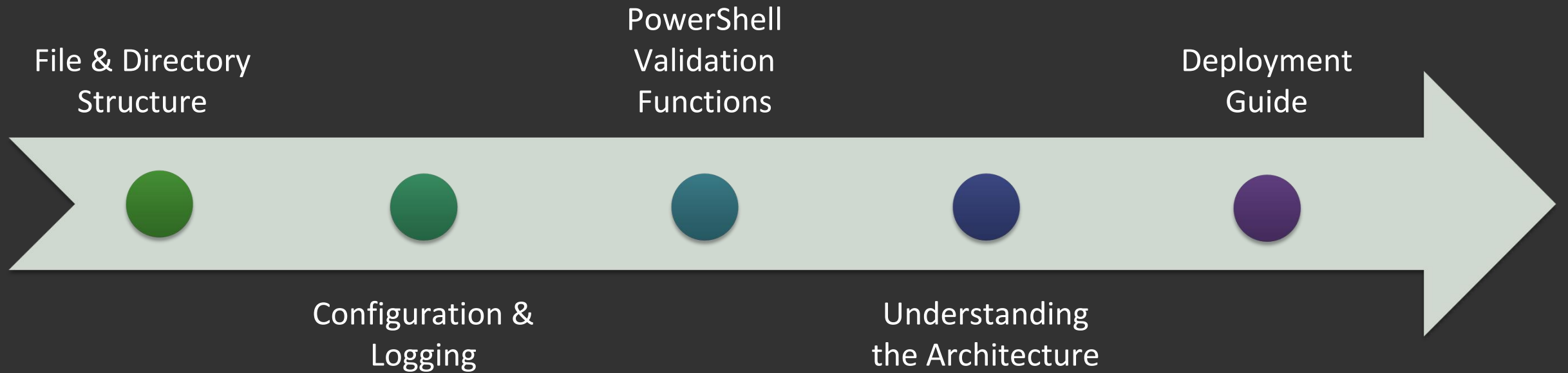


Automating System & Application Validation Process



Understanding PowerShell's Logging Module



Automating System & Application Validation Process




```
30 #Outputs if any, example: Log file stored in C:\Windows\Temp\<name>.log
29
28 NOTES
27 Version: 1.0
26 Author: <Name>
25 Creation Date: <Date>
24 Purpose/Usage: Initial script development
23
22 .EXAMPLE
21 #Example goes here. Repeat this step
20 #
19 #-----[Initializations]-----
18 #
17 #Set Error Action to Silently Continue
16 $ErrorActionPreference = 'SilentlyContinue'
15
14 #
13 #Not sure requires function library
12 "C:\Scripts\Functions\Logging Functions.ps1"
11 #
10 #-----[Declarations]-----
9 #
8 #Script Version
7 $ScriptVersion = "1.0"
6 #
5 #Log File Info
4 $LogPath = "C:\Windows\Temp"
3 $LogName = "<script.name>.log"
2 $LogFile = Join-Path -Path $LogPath -ChildPath $LogName
1
46 #-----[Functions]-----
1 #
2 #
3
4 Function <FunctionName> {
5     [Param()]
6
7     Begin {
8         Log-Write -LogPath $LogPath -Message "Function Start"
9     }
10
11     Process {
12         Try {
13             #code goes here
14         }
15     }
16 }
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ROI Calculator



ROI Calculator for our Automation			
Initial Values		Derived Values	
Number of customers	50		
Environments per customer (dev, test, prod etc)	10	Total Server Count	1500
servers in each environment (web,app,database etc.)	3		
How frequently you might need to validate (approximate time per month)	3		
Time you need to validate each server(in minutes)	5	Total Time Spent on each server validation(per month)	15
Total Manual Effort minutes per month			22500
Total Manual Effort hours per year			4500
Windows System Admin Average Salary per hour(in USD)			25
Cost Saved (in USD per year)			112500

Resume



*I saved 100k + USD for my employer
using my PowerShell automations*

Code Enhancement



- *Check if the module is installed*
- *If module is installed, Continue*
- *If module is **not** installed, Install it first and then Continue*

Code Enhancement



Completely remove the dependency on logging module from our Validation Code.

Review



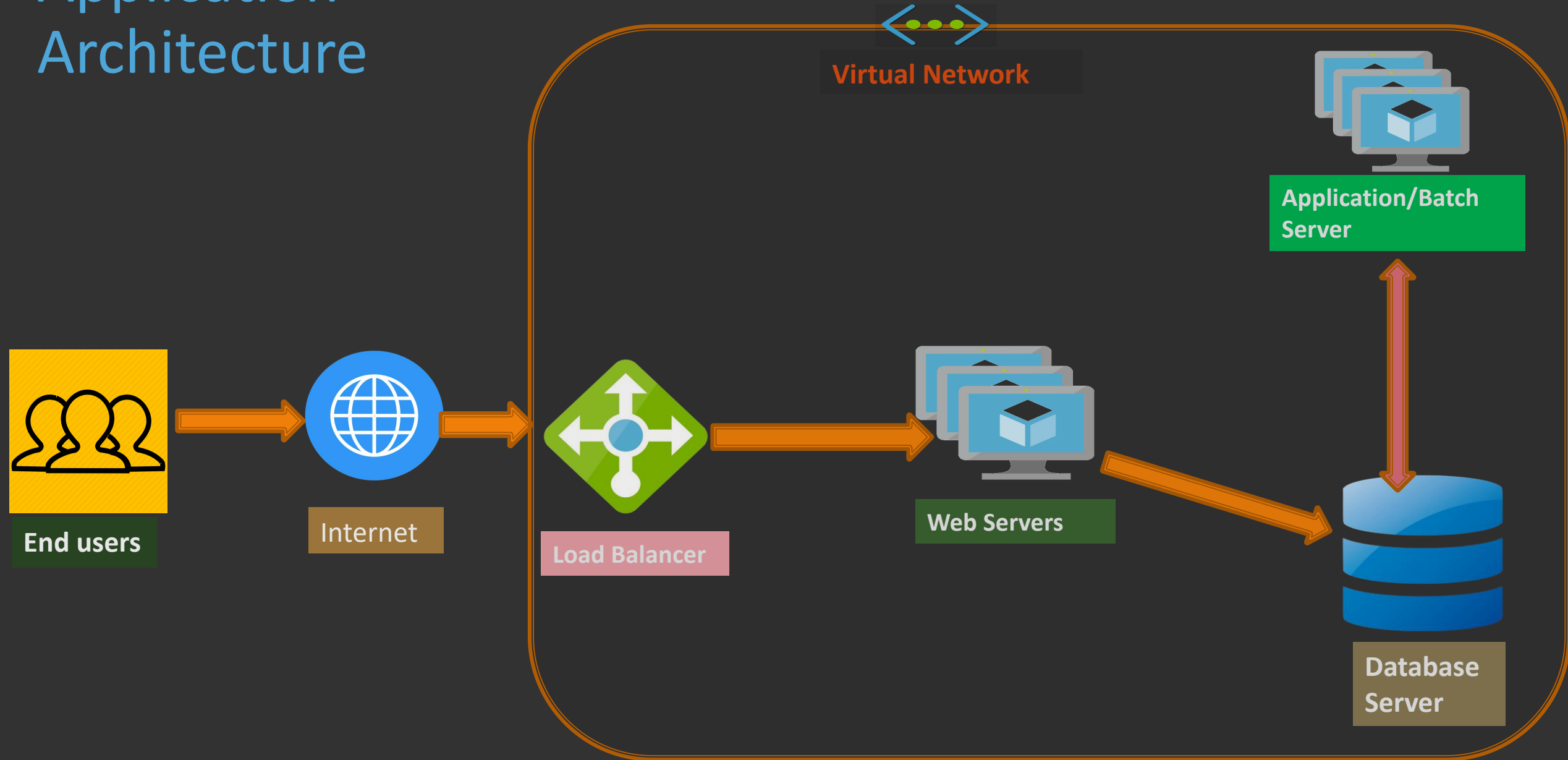
Please provide your valuable short review/feedback about this automation in the next 15minutes.

Implement the automation for your needs and Don't forget to send me the screenshots of your Report.

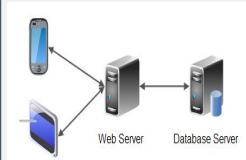
Thank You



Application Architecture



Lab Setup



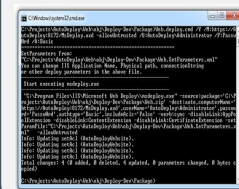
Application Architecture



Deploy Resources in Cloud



Deploy Script on the VMs



Script Execution

Logging



- XML Based Configuration File
- Logging
- Cloud Orchestration
- HTML Report

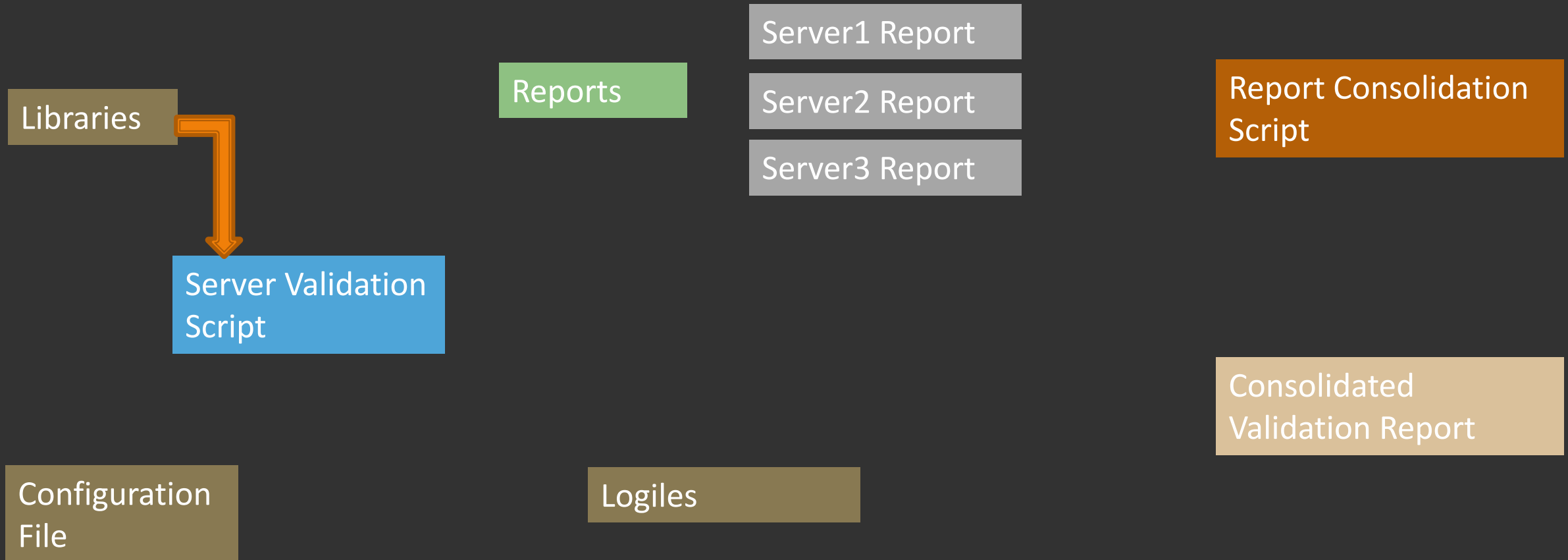
Why Need Validation Automation



To Validate Application Environments
during:

- Monthly Patching
- Application Upgrades
- Database Upgrade
- Urgent Patches
- Resolving critical cases

Automating System & Application Validation Process



PowerShell Modules

- XML Based Configuration File
- Logging
- Cloud Orchestration
- HTML Report

Importance of Validation Automation



Status

- INFORMATION
- SUCCESS
- FAILED
- EXCEPTION

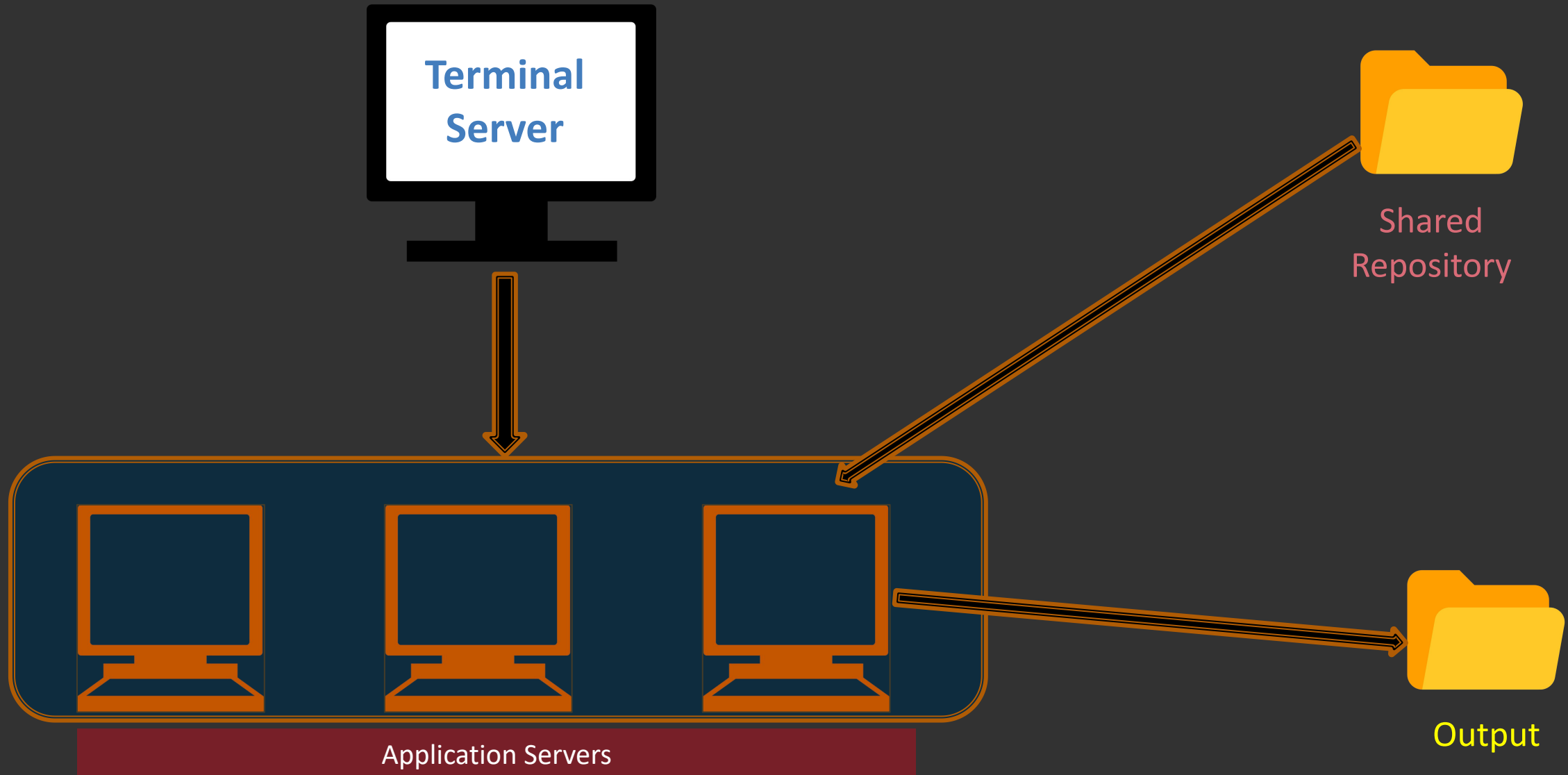
Configuration File



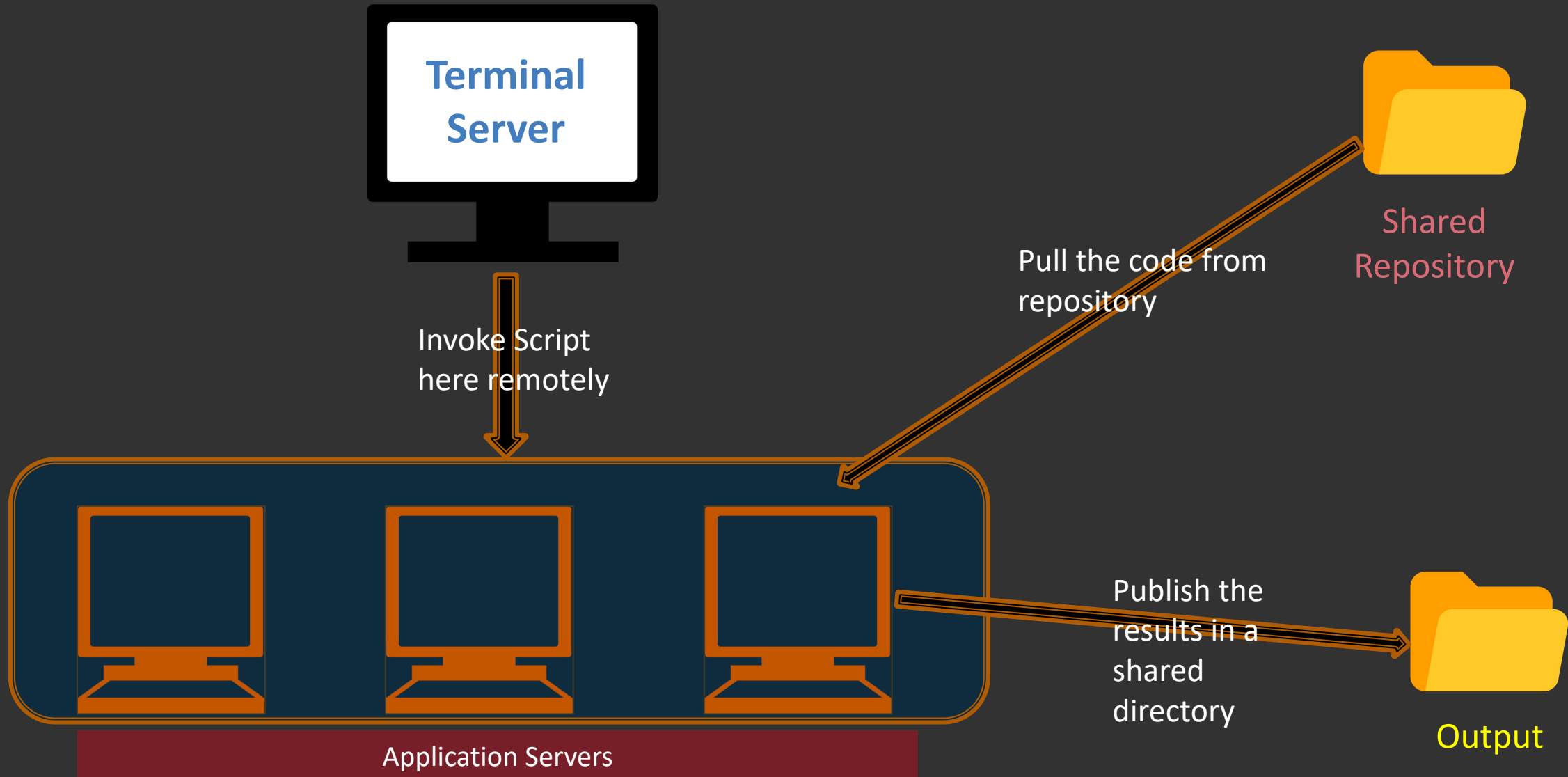
Files used to configure the parameters and initial settings for some computer programs

```
▼<Validation>
  ▶<GlobalVariables>
    ...
  </GlobalVariables>
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    ▼<TIER name="web">
      <TIER_TASKS>SysInfo,URL,DiskHealth,
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  ▼<TIER>
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  ▼<TIER>
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Remote Script Execution Architecture



Remote Script Execution Architecture



Planned Service Restart



Requirement

Due to excessive workload, Application Performance is impacted. To keep the application healthy, We are asked to:

Schedule a daily restart of IIS, Apache Tomcat and MyBatch Services at 4 AM.

A logfile containing the service status before & After restart is expected.

Automation: Planned Service Restart



Version1:

Centralized Solution to deal with restarting fixed services on multiple servers

Version2:

Centralized Solution to deal with restarting different services on different servers

