AZURE MANAGED SERVICES REPORT

Review period: 1st August 2021 – 31st August 2021

Confidentiality Statement

The content of this document is confidential and intended to be used within Wrench only. It is strictly forbidden to share any part of this document with any third party, without a written consent of the owner of the document.

Wrench makes commercially reasonable efforts to ensure that the information in this document is accurate and up to date, however errors may occur. Wrench reserves the right to alter this document and other referenced documents without notice from time to time and at its sole discretion. Trademarks used in this document are the property of their respective owners. This document may refer to other documents, including documents subject to the rights of third parties. Nothing in this document constitutes a grant by Wrench of any license, assignment, or any other interest in the copyright or other intellectual property rights of such other documents. Any use of such other documents is subject to the rights of Wrench and/or any applicable third parties in those documents.

Document History

Document Location

This document is only valid on the day it was downloaded. Ensure that this document is current. Printed documents and locally copied files will become obsolete due to changes to the master document. Reach out to the contacts mentioned in the distribution list to retrieve the current version.

Distribution List

This document has been distributed to the following people / organizations:

Email	Title
aju@wrenchsolutions.com	Director
anoop@wrenchsolutions.com	Project Manager
siyad.t@wrenchsolutions.com	

Contacts

In addition to the author the following people are involved in creating this document:

Name	Email	Title
Harshitha D	harshitha.d@sysfore.com	Associate Cloud Engineer
Laasya Krupa B	laasya.k@sysfore.com	Associate DevOps Engineer

Revision History

Revision Number	Date of Issue	Author(s)	Brief Description of Change
0.1	13 Sept 2021	Harshitha D	Document Created
0.1	13 Sept 2021	Laasya Krupa B	Document Created

Review

Version Reviewed	Date	Reviewer Name	Status
0.1	13 Sept 2021	Ankit Kumar Bhadani	Reviewed
0.1	22 Sept 2021	Raghavendra Viswanath T	Reviewed

Contents

1. Purpose of this document

This document provides an overview of the Microsoft Azure infrastructure, services, its consumption, and cost optimization proposals. This document could serve as input to Architecture team and management for review and optimization of the infrastructure.

2. Subscriptions in Scope

SL. No	SUBSCRIPTION NAME	SUBSCRIPTION ID
1	Wrench-CentralIndia01	1eccff19-b179-4b10-a1b1-fcfe115675aa
2	Wrench-Product	892e07cd-c40f-453d-b7ab-1a1562b4baf0
3	WRENCH-Rasterex-SI	cc83cffb-ffe2-4de9-9352-76f9a12476ea
4	Wrench-Sales	934c2fe0-32bc-4758-8dca-7701eae48738
5	WRENCH-UKWEST01	d1573523-2c57-460e-b67b-b4617c523385
6	Wrench (Converted to EA)	4528d8d2-b1ce-4764-b302-590805f24d46
7	WrenchAzureDB	e1bff732-06ea-4db8-9e74-6e8d2f9a9b4d
8	WrenchR&D	e2ccab1c-efdc-4d05-b3f6-af3ed72049db
9	WRNH-ADports	3a39a072-9e64-4343-b324-022b99a66cf4
10	WRNH-Ajus	831a3613-0dd1-4846-a8fb-45e8ff5f077f
11	WRNH-AustraliaEast01	def937c1-6b92-42ad-8942-f6cbc3da8233
12	WRNH-BHEL-WESTINDIA	4a47be0e-164f-4c5b-8805-80f96146849b
13	WRNH-BI	e9eef821-1109-4e87-b1ca-e5a0df111c71
14	WRNH-Chiyoda	014a3453-a2ed-441b-b527-0e5d220298e8
15	WRNH-Development	2b75c01b-5d59-48b6-ba6e-22ea7032203f
16	WRNH-Esselgroup	0a166e22-4ecb-451e-a1db-1d5c7cee4bb1
17	WRNH-GUNVOR	93eeb3f0-c821-4968-8701-dd77353b2b85
18	WRNH-hurl	87a05ba5-9435-4cda-96da-cfe7abcce914
19	WRNH-JURONG	de9bbab3-b1ae-413e-a1c9-ae7dc61ba2d0
20	WRNH-Landmark	9d7b8198-c6fe-4461-b640-da9431ff9cc8
21	WRNH-ME-CPPE	048fb5de-48ba-4953-9436-1f9b960ef630
22	WRNH-Mitsubishi	f2038d91-bf83-4722-90c2-592370f7435f
23	WRNH-Petrocil	18b05ef4-34e5-4165-bd59-d349b20e33ae
24	WRNH-Petrofac	c741e186-4c7c-49ff-9ed9-b7e58614e3f2
25	WRNH-Quality1	6fc25aa5-345b-4b7a-ad33-9fcc27295cba
26	WRNH-TPL	0b262826-24ac-43e4-a5c8-44b47a6d5a07
27	WRNH-Vatika	7e031514-2024-4edb-995f-1561591b1eb9
28	WRNH-WrenchSmartprojectSA01	5184b85d-7b83-4e6a-90ac-f05873b557fb
29	WRNH-WrenchSmartprojectSI01	05ad1d2b-9f58-496b-b812-0f0c4c120011
30	WRNH-WSP	f9b9328d-60de-4dc1-b14d-1fa47001e143
31	WS_AZUREOPEN	72401553-0379-4df0-8dc7-4f50cae110dc

3. Azure Services Deployed

- ANALYSIS SERVICES
- AUTOMATION ACCOUNT
- AVAILABILITY SET
- APPLICATION INSIGHTS
- AZURE AD DOMAIN SERVICES
- AZURE COSMOS DB ACCOUNT
- FACE API
- VIRTUAL NETWORK GATEWAY
- AZURE DEVOPS ORGANIZATION
- COGNITIVE SERVICES
- DATA FACTORY
- DEVOPS STARTER
- LOCAL NETWORK GATEWAY
- LOG ANALYTICS WORKSPACE
- NETWORK INTERFACE
- NETWORK SECURITY GROUP
- VIRTUAL MACHINE
- PRIVATE DNS ZONE
- PRIVATE ENDPOINT
- STORAGE ACCOUNT (CLASSIC)
- RECOVERY SEVICE VAULT
- VIRTUAL NETWORK
- STORAGE ACCOUNT
- SENDGRID ACCOUNT
- SHARED DASHBOARD
- SNAPSHOT
- SOLUTION
- SQL DATABASE
- SQL SERVER
- SQL VIRTUAL MACHINE

4. Review Report

4.1. MSP Tasks performed

- NSG & Threat deduction Security Policies are already enabled.
- Alerts and Notifications for business-critical services and infrastructure. Resources running on Azure Subscription are already configured and intact.
- Incident Management as when required based on an agreed SLA.
- Assistance on New deployments.

4.2. Backup Audit

- Backup Audit has been completed for the servers and working as per schedule.
- Everyday Backup will happen on time.
- Alerts are enabled for Backup; Alerts will notify in the event of backup failure.

4.3. Security

- Threat Detection and Analytics using Azure Security Center.
- Relevant alerts and notifications for business-critical services based on acceptable threshold levels are already configured.

5. New Resource Deployments

No new resources deployed in the month of August 2021.

6. Incidents Report

Case Title	Case Number	Owner	Status	Time Spent (hh mm ss)
VMs Disk space less than 10%	110470	Harshitha D	In progress	06:20:00
CPU and Memory usage of VMs has crossed threshold	110561	Harshitha D	In progress	09:20:00
Clarification regarding Security Features in Azure VMs	110613	Harshitha D	Closed	01:30:00
Azure Estimate	110542	Harshitha D	Closed	00:30:00
Instance Upgrade!	110356	Harshitha D	Closed	00:30:00
Total Effort Consumed				**18 hours 10 minutes**

7. Suggestions and Recommendations

7.1. Suggested Action

- It is recommended to create a new data disk in the VM, "SmartprojectSA1" since all the disks has a disk free space of less than 10%.

NAME OF DATA DISK	RESOURCE GROUP	LOCATION	CURRENT FREE SPACE
SmartprojectSA1(E:)	WRENCHSMARTPROJECTSA1-RG	Southeast Asia	4.90329694747925
SmartprojectSA1(F:)	WRENCHSMARTPROJECTSA1-RG	Southeast Asia	2.55046606063843
WSP(F:)	Petrocil-rg	Southeast Asia	1.43855536
WSP(G:)	Petrocil-rg	Southeast Asia	3.363651276
WSP(I:)	Petrocil-rg	Southeast Asia	9.228342056
WSP(E:)	Petrocil-rg	Southeast Asia	3.363651276
Petrofac(G:)	petrofac-rg	UK West	1.831893921
Petrofac(F:)	petrofac-rg	UK West	1.8401237735
Petrofac(H:)	petrofac-rg	UK West	4.656620026
Petrofac(I:)	petrofac-rg	UK West	5.367666721
Petrofac(E:)	petrofac-rg	UK West	8.374722481
WRNH-CPPE-ME01(E:)	WRNH-CPPE-ME-RG	UAE North	1.409159899
WRNH-CPPE-ME01(F:)	WRNH-CPPE-ME-RG	UAE North	6.000080585

7.2. Suggested Action

- Upgrade the VM "Petrofac" from "Standard DS12 v2" to "DS13-4_V2" as the Memory usage is more.
- Upgrade the VM "smartprojectSA1" from "Standard DS12 v2" to "DS13_V2" as the Memory usage is more.
- Upgrade the VM "WRNH-CPPE-ME-01" from "Standard DS11 v2" to "DS12_V2" as the Memory usage is more.
- Upgrade the VM "WSP" from "Standard DS12 v2" to "DS13-4_v2" as the Memory usage is more.
- Upgrade the VM "WRENCHDC-WESTIN" from "Standard DS11 v2" to "DS12-2_v2" as the Memory usage is more.

NAME OF VM	STATUS	RESOURCE GROUP	LOCATION	Current Size	Recommendation to upgrade size	COST ESTIMATION IN INR
Petrofac	Running	petrofac-rg	UK West	Standard DS12 v2	Standard DS13-4_V2	64,689.44
SmartprojectSA1	Running	WRENCHSMART PROJECTSA1-RG	Southeast Asia	Standard DS12 v2	Standard DS13_V2	62,164.97
WRNH-CPPE-ME-01	Running	WRNH-CPPE-ME-RG	UAE North	Standard DS11 v2	Standard DS12_v2	31,082.49
WSP	Running	Petrocil-rg	Southeast Asia	Standard DS12 v2	Standard DS13-4_v2	62,164.97
WRENCHDC-WESTIN	Running	WRNH-UKWEST-01-rg	West India	Standard DS11 v2	Standard DS12-2_v2	29,609.88
TOTAL						2,49,711.75

7.3. Suggested Action

- Consider deleting cloud service (classic), **"wrenchrevitWE"**, as it is suspended because the associated VM, "W-REVIT1", is in stopped state.

NAME	STATUS	RESOURCE GROUP	LOCATION	SUBSCRIPTION
wrenchrevitWE	Suspended	wrenchrevitWE	West Europe	WS_AZUREOPEN

7.4. Suggested Action

- Enable diagnostic settings for "WRNH-PRESALES" and "WRNH-AjusVM1" to monitor logs".

7.5. Suggested Action

- Consider deleting reserved IP address (classic), "wrnh-mktng-pip", since it is not used.

NAME	RESOURCE GROUP	LOCATION	Subscription	COST SAVING UPTO INR
wrnh-mktng-pip	Default-Networking	South India	WS_AZUREOPEN	0.0
Total				**0.0**

7.6. Suggested Action

- Enable backup for the following VMs.
- Advantage: provides independent and isolated backups to guard against accidental destruction of original data. Azure Backup does not limit the amount of inbound or outbound data you transfer.

NAME OF VM	STATUS	RESOURCE GROUP	LOCATION	COST ESTIMATION IN INR
WRENCH-BHEL	Running	WRNH-BHEL-RG	West India	9,424.03/month
WRNH-AjusVM1	Running	AjusRes	Central India	452.21/month
TOTAL				**9876.24/month**

7.7. Suggested Action

- Following Ports are open so request you to restrict the port immediately

Sl No	SUBSCRIPTION	VM NAME	OPEN PORTS	RECOMMENDATION
1	WRNH-BHEL-WESTINDIA	WRENCHDC_WESTIN	1433	Restrict the port immediately
2	WRNH-Ajus	WRNH-AjusVM1	22, 3389	Restrict the port immediately

7.8. Suggested Action

- Delete Virtual Network Gateway "ExterranGW" as it is not configured to Point-to-Site and Site-to-Site.

NAME	RESOURCE GROUP	LOCATION	SUBSCRIPTION	SKU	COST SAVING in INR
ExterranGW	wrenchsmartprojectsa1-rg	Southeast Asia	WRNH-WrenchSmartprojectSA01	VpnGw1	10,184.32
TOTAL					**10,184.32**

7.9. Suggested Action

- Consider deleting app service plan "TeamWORKsrv1Plan" as both the apps attached to it are stopped.

APP SERVICE PLAN	RESOURCE GROUP	LOCATION	SUBSCRIPTION	APPS	APP STATUS	COST SAVING in INR
TeamWORK srv1Plan	Ajusres	Central US	WRNH-Ajus	Ajus	Stopped	5,092.16
TeamWORK srv1Plan	Ajusres	Central US	WRNH-Ajus	TeamWORK srv1	Stopped	5,092.16
Total						**10,184.32**

7.10. Suggested Action

- Consider deleting the SQL servers as they are not associated to any database.

SQL Server Name	SQL DB	RESOURCE GROUP	STATUS	PRICING TIER
smartproject-sa01	NA	WrenchSmartprojectSA1-RG	Available	NA
smartprojectsql	NA	petrocil-db-rg	Available	NA

7.11. Suggested Action

- Delete these recovery service vaults.

VAULT NAME	RESOURCE GROUP	VM NAME	LOCATION	BACKUP STORAGE	COST SAVING In INR
Vault-Jurong	wrnh-jurong	NA	Southeast Asia	0 GB	1,801.132
Vault-Landmark	landmark-rg	NA	South India	0 GB	1,801.132
vault401new	vatika-rg	NA	South India	0 GB	1,801.132
WRENCH-Vault	wrnh-bhel-rg	NA	West India	0 GB	1,801.132
WRNH-BHEL-SR	wrnh-bhel-rg	NA	South India	0 GB	1,801.132
WRNHME-Vault-1	WRNH-MiddleEAST01-RG	NA	UAE North	0 GB	1,801.132
Total					**10,806.792**

7.12. Suggested Action

- Delete these Log Analytics Workspaces as it is not associated to any resources.

WORKSPACE NAME	RESOURCE GROUP	RESOURCE ATTACHED	LOCATION	PRICING TIER	COST SAVING In INR
DefaultWorkspace-72401553-0379-4df0-8dc7-4f50cae110dc-SUK	defaultresourcegroup-suk	NA	UK South	Per node	NA
DefaultWorkspace-72401553-0379-4df0-8dc7-4f50cae110dc-EUS	defaultresourcegroup-eus	WRENCH-DEMO memory percentage enabled but this VM is no longer available	East US	Per node	NA
DefaultWorkspace-72401553-0379-4df0-8dc7-4f50cae110dc-CIN	defaultresourcegroup-cin	NA	Central India	Standalone	NA
DefaultWorkspace-0a166e22-4ecb-451e-a1db-1d5c7cee4bb1-CIN	defaultresourcegroup-cin	SmartProject Memory percentage alert enabled but this VM is no longer available	Central India	Per node	NA

8. Cost Savings Summary

Suggestion Head	Head Name	Amount in INR Per Month
7.10	Total cost savings for Recovery Service Vault	10,806.792
7.8	Total cost savings for App Service Plan	10,184.32
7.7	Total cost savings for Virtual Network Gateway	10,184.32
Total		**31,175.432**

Upto INR **31,175.432** could be saved if all the suggestions are implemented.