Report Title:	BCP Test Details
Run Date and Time:	2024-03-07 09:39:36 Greenwich Mean Time
Run by:	Bjorn Meland (bjormel)
Table name:	bcp_test

BCP Test

Number:	BCPT0007361	Test date:	2024-02-08 23:45:49
BIA:	BIA0002813	Test type:	Observed
State:	Current	Serving Option:	Production Serving
Property:	Vespa_hosted.GLB	Test result:	Full
Task:	TASK0566564	Exemption Type:	
Certification Date:	2024-03-31	Decommissioning Date:	
		Next Notification Date:	
		Expiration Date:	2025-03-31

Test Log

Conclusion:

Full Certification - Vespa_Hosted.GLB successfully performed a BCP exercise on prem and in AWS on 02/08/2024. The tier 3 component (vespa serving) met the RTO of their tier by failing out of all AWS regions (US-East, US-West, Asia Pacific) and on Prem Colos (GQ1, NE1, BF1/2, IR2, TP2,TW1, SG3) and back. No technical issues or user impact were observed during this exercise.

Certification scores are valid for one year from the date of issuance - 03/31/2024.

Identified Risk:

No risks were identified during this exercise.

GDoc Link:

https://docs.google.com/document/d/1oXtuFo5k3kJoxJ1grGAyipfYaQG0WI-bRyma8dCQRNM/edit?usp=sharing

OERE JIRA Key:	OERE JIRA:

Test log:

Participants:
Bjorn Meland - PE
Dan Manki - BCP

Links:
BIA
Architecture Diagram
Checklist
CHG
Slack Channel
Runbook
BCPT Record
JIRA

Components

Hosted Colos

Tier

Testing Colos

Vespa Hosted

GQ1, NE1, BF1/2, IR2, TP2, TW1, SG3, AWS US (aws-us-east-1a aws-us-east-1b aws-us-east-2a aws-us-west-2a aws-use1-az2 aws-usw2-az2 aws-usw2-az3), AWS International (aws-ap-northeast-2a aws-ap-southeast-1a aws-apse1-az1 aws-apse1-az3)

3

GQ1 NE1, BF1/2, IR2 TP2, TW1, SG3, AWS US (aws-us-east-1a aws-us-east-1b aws-us-east-2a aws-us-west-2a aws-use1-az2 aws-usw2-az2 aws-usw2-az3), AWS International (aws-ap-northeast-2a aws-ap-southeast-1a aws-apse1-az1 aws-apse1-az3)

Monitoring used for the BCP test:
YAMAS - AWS
YAMAS - On prem

CHG Slack Notes in PDT:
AWS

On Prem

06:06 - Step 1 - Fail out all colos/regions except US-West-2 and SG3
on-prem
Thu Feb 8 14:06:54 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.eu-west-1 out of service"
}
Thu Feb 8 14:06:55 UTC 2024

{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-east-3 out of service"
}
Thu Feb 8 14:06:55 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-central-1 out of service"
}
Thu Feb 8 14:06:55 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-west-1 out of service"
}
Thu Feb 8 14:06:55 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-northeast-2 out of service"
}
Thu Feb 8 14:06:55 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-northeast-1 out of service"
}
aws

{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-ap-northeast-2a out of service"
}
Thu Feb 8 14:07:12 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-apse1-az1 out of service"
}
Thu Feb 8 14:07:12 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-ap-southeast-1a out of service"
}
Thu Feb 8 14:07:12 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-apse1-az3 out of service"
}
Thu Feb 8 14:07:12 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-euw1-az1 out of service"
}
Thu Feb 8 14:07:12 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-eu-west-1a out of service"
}
Thu Feb 8 14:07:13 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-euw1-az3 out of service"
}
Thu Feb 8 14:07:13 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-1a out of service"
}
Thu Feb 8 14:07:13 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-use1-az2 out of service"
}
Thu Feb 8 14:07:13 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-1b out of service"
}
Thu Feb 8 14:07:14 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-2a out of service"
}
Thu Feb 8 14:07:14 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-usw2-az2 out of service"
}
Thu Feb 8 14:07:14 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-usw2-az3 out of service"
}
06:13 - AWS in US has taken the traffic
06:16 - On Prem has taken the traffic

20 Mins of remaining OOR

06:36 - Fail back all colos regions that were out and fail out US-West-2 and SG3
Thu Feb 8 14:36:56 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.eu-west-1 in service"
}
```

Thu Feb 8 14:36:56 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-east-3 in service"
}
```

Thu Feb 8 14:36:56 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-central-1 in service"
}
```

Thu Feb 8 14:36:56 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.us-west-1 in service"
}
```

Thu Feb 8 14:36:57 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-northeast-2 in service"

}
```

Thu Feb 8 14:36:57 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-northeast-1 in service"
}
```

aws
Thu Feb 8 14:37:14 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-ap-northeast-2a in service"
}
```

Thu Feb 8 14:37:15 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-apse1-az1 in service"
}
```

Thu Feb 8 14:37:15 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-ap-southeast-1a in service"
}
```

Thu Feb 8 14:37:15 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-apse1-az3 in service"
}
```

Thu Feb 8 14:37:15 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-euw1-az1 in service"
}
```

Thu Feb 8 14:37:16 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-eu-west-1a in service"
}
```

Thu Feb 8 14:37:16 UTC 2024

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-euw1-az3 in service"
}
Thu Feb  8 14:37:16 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-1a in service"
}
Thu Feb  8 14:37:16 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-use1-az2 in service"
}
Thu Feb  8 14:37:16 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-1b in service"
}
Thu Feb  8 14:37:17 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-east-2a in service"
}
Thu Feb  8 14:37:17 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-usw2-az2 in service"
}
Thu Feb  8 14:37:17 UTC 2024
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-usw2-az3 in service"
}
```

Fail out of US-West-2 and SG3

on-prem

```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-southeast-1 out of service"
}
```

aws

```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-west-2a out of service"
}
```

06:45 - Failback all colos and regions that were out completed

06:47 - Fallout of US-West-2 and SG3 completed

07:10 - failback US-West-2 and SG3

on-prem
Thu Feb 8 15:06:58 UTC 2024
```
{
  "message": "Successfully set vespa.canary-pipeline.onprem in prod.ap-southeast-1 in service"
}
```
aws
Thu Feb 8 15:07:17 UTC 2024
```
{
  "message": "Successfully set vespa.canary-pipeline.aws in prod.aws-us-west-2a in service"
}
```
07:17 - Step 3 completed

BCP Steps in Minutes:

Step # - Time (Runbook Step) - description

Step 1 - 10 mins - fail out all colos/regions except US-West-2 and SG3

Step 2 - 11 mins - fail back all colos regions that were out and fail out US-West-2 and SG3

Step 3 - 7 mins - fail back US-West-2 and SG3

Total: 28 mins

RTA: 28/3= 10 mins

Remediation(s): none

Note(s):

Vespa uses aws region style names for both their public cloud and on prem locations. The architecture diagram has both the on prem datacenter name and the corresponding region naming convention listed. For example, BF1=prod.us-east-3 and so on

The full 30 minutes for fallout was not used, Engineer started the failback 10 mins early. There is a script of 1800 seconds and the actual fallout time is calculated differently than the 1800 seconds of OOR

PE was honest about a mistake that was made during the exercise. It can be classified as a user error -From Bjorn " it looks like I failed to apply the traffic to eu-west-1, I mix up some host names. It got traffic during the BCP though" -
https://olympus.yamas.ouroath.com/#/ws/0byq9p/ivp?_t.system=main&_t.zone=prod.eu-west-1&_t.tenantName%3Dvespa&_t.app=regexp(canary-pipeline)&start=-2%20hours

I informed the PE; thanks for the honesty and no need to re-test because of the scale Vesa Hosted performs of taking multiple Regions/Colos out at the same time

Identified Risk(s): No risks were identified during this exercise.

In conclusion:

Full Certification - Vespa_Hosted.GLB successfully performed a BCP exercise on prem and in AWS on 02/08/2024. The tier 3 component (vespa serving) met the RTO of their tier by failing out of all AWS regions (US-East, US-West, Asia Pacific) and on Prem Colos (GQ1, NE1, BF1/2, IR2, TP2,TW1, SG3) and back. No technical issues or user impact were observed during this exercise.

Certification scores are valid for one year from the date of issuance - 03/31/2024.

Test log 2:

Live Event

Event Type:		BCP Invoke Date:
		Failout/Failback invoke time:
Timestamp of engineer engagement in incident Slack:		Timestamp component/service was failout/failback:
Impact stable time of service/component:		
Terminal/Putty Sessions:		
Monitoring Links:		

Related List Title:	Component/AWS Account Test List
Table name:	component_test
Query Condition:	BCP test = BCPT0007361
Sort Order:	Number in ascending order

2 Component/AWS Account Tests

▲ Number	BCP test	CHG	Incident	Component /AWS Account	Datacenter	RTA	RTA Duration	Task	Test date	Certification result
BCT0035192	BCPT0007361	CHG0581696		vespa hosted			10 Minutes	TASK0566564	2024-02-08 23:46:01	Full
BCT0035193	BCPT0007361	CHG0581696		vespa.vespa			10 Minutes	TASK0566564	2024-02-08 23:46:04	Full

Related List Title:	BIA List
Table name:	u_bia
Query Condition:	Sys ID = 02e168cac308ce504d674f05990131a3
Sort Order:	None

1 BIAs

Number	Active	Architecture Diagram	Business Description	Components	Most Critical Outage impact	Expiration Date	How long does the fail out from a data center take	Hosted Locations	Amount of time your product/service can stay failed out
BIA0002813	true	https://docs.google.com/presentation/d/1UG7g35rkcbzs7Z1noMT29UKyReXldGanVFoPqgRpfnk/edit#slide=id.g31361d666a_0_6	Hosted Vespa Initiative		P1	2025-01-01	5 mins-10 mins	ap-northeast-1, ap-northeast-2, ap-southeast-1, eu-west-1, us-east-1, us-east-2, us-central1, us-west-1	12 hours - 24 hours